



---

# Polycom Immersive Telepresence (ITP), Version 3.1.4

## Contents

- [Overview](#)
- [Introducing the ITP Systems](#)
- [New Features in ITP Version 3.1.4](#)
- [New Features in ITP Version 3.1.2](#)
- [New Feature in ITP Version 3.1.0](#)
- [Software and Firmware Used in Version 3.1.4](#)
- [Upgrading the Software to Version 3.1.4](#)
- [Corrected Issues in Version 3.1.4](#)
- [Corrected Issue in HDX Version 3.1.3.2](#)
- [Corrected Issues in Version 3.1.2](#)
- [Known Issues](#)
- [License Information](#)
- [Copyright Information](#)
- [Trademark Information](#)
- [Patent Information](#)

## Overview

Polycom announces the latest release of Polycom Immersive Telepresence (ITP) system software. This document provides the latest information about the following Polycom software:

- Polycom RealPresence® Experience (RPX™) Series (Hardware Revision I)
- Polycom Open Telepresence Experience™ (OTX™) solutions (Hardware Revision B)
- Polycom Architected Telepresence Experience™ (ATX™) Software Development Kit (SDK) and the Polycom ATX 300

For more information about using the features described in this document, refer to the product documentation available for each Polycom ITP system at [support.polycom.com](http://support.polycom.com).

## Introducing the ITP Systems

Polycom Immersive Telepresence (ITP) systems include:

- **Polycom RealPresence Experience (RPX) Series**, including RPX 200 and RPX 400, offers unprecedented high-definition video in a cinematic view, extraordinary StereoSurround™ audio, and high resolution content. This truly immersive meeting environment provides the ultimate meeting experience for executives in any organization, linking sites across the globe.
- **Polycom Open Telepresence Experience (OTX) solutions**, including OTX 100 and OTX 300 systems. Both OTX system models offer stunning HD video quality for up to 50% less bandwidth using Polycom's H.264 High Profile compression technology. By providing an exceptional, across-the-table experience and an open collaboration environment, the Polycom OTX Immersive Telepresence solution will power your teams, customers, and partners to work more effectively across distances.
- **Polycom Telepresence Experience (TPX) solutions** offer Polycom's Ultimate High Definition real-size video and extraordinary StereoSurround™ audio in a comfortable, professional meeting environment. With true-to-life people dimensions and no technology in the way, you will truly feel as if your colleagues are sitting across the table from you rather than located across the world.
- **Polycom Architected Telepresence Experience (ATX) Software Development Kit (SDK) and the Polycom ATX 300**. With either version of the Polycom ATX system, Polycom's AV integration partners can create customized immersive telepresence suites using Polycom HDX® 8000 codecs, EagleEye III cameras, and HDX Ceiling Microphone Arrays along with displays, table, and chairs provided by the integrator or client.
  - The ATX SDK, which runs on the ATX 200, ATX 300, and ATX 400 hardware platforms, enables AV integrators to support the unique requirements of their customers. The ATX SDK works in conjunction with special control panel code (provided by the control panel vendor), enabling AV integrators to customize the user interface to the specific needs of their customers.
  - The ATX 300 version 3.1.4 provides a user interface with the same feature set as the standard Polycom Immersive Telepresence software, including the new Polycom Touch Control.

## New Features in ITP Version 3.1.4

The ITP version 3.1.4 software includes the features and functionality of ITP version 3.1.2, with the corrected issues described in [Corrected Issues in Version 3.1.4](#).

## New Features in ITP Version 3.1.2

The ITP version 3.1.2 software includes the features and functionality of ITP version 3.1.0, with the following additions.

### Manual Answer Enabled in ITP Systems

ITP systems are, by default, set to automatically answer incoming calls. In Version 3.1.2, you can now disable auto answer by adding the following setting to the System\_Config.ini file: AllowManualAnswer=1.

After you restart your system, incoming calls will appear on the Polycom Touch Control. To switch back to auto answer, simply remove the setting or change the value from "1" to "0."

## Polycom 70” VisualBoard™ Touch Display

The Polycom VisualBoard application (formerly known as the Active Touch application) now supports the Polycom 70” touch display.

## New Feature in ITP Version 3.1.0

The ITP version 3.1.0 software includes the following new feature.

### Polycom VisualBoard Application

ITP software version 3.1.0 includes the new Polycom VisualBoard application which allows real-time annotating of content. With the Polycom UC Board or a touch screen monitor, content can be annotated directly on the screen using either a stylus or finger. With a non-touch enabled content monitor, content can be annotated with a mouse.

Note that hardware support for this feature is only available with the Polycom UC Board with the 65” external content display. Tabletop touch displays or large format wall mounted touch displays can be used with the Polycom VisualBoard software, however hardware support will not be provided by Polycom. If a customer wishes to replace the in-table content displays with tabletop touch displays, we encourage them to engage the PGS CDS (Custom Design Services) team for a customized solution. PGS CDS consulting is available on a fee based basis. Please contact [CPRequests@polycom.com](mailto:CPRequests@polycom.com) for more information about PGS CDS services.

Note that the Polycom VisualBoard application will work only with HDX software version 3.1.0 and later releases. It will not work with HDX software releases earlier than 3.1.0.

For more information on the Polycom VisualBoard application, refer to the *Polycom VisualBoard Technology Application User’s Guide*.

## Software and Firmware Used in Version 3.1.4

ITP version 3.1.4 uses the following software and firmware.

Software/Firmware	RPX	OTX	TPX	ATX SDK	ATX
Polycom Telepresence Tool version: 3.1.4 (TelepresenceTool_3.1.4.1.msi)	✓	✓	✓	✓	✓
Multipoint Layout Application (MLA) version: 3.1.4.7 and later releases Refer to the latest <i>Polycom Multipoint Layout Application (MLA) Release Notes</i> for more information.	✓	✓	✓	✓	✓
HDX software version: 3.1.4-43132 and later releases (polycom-hdx-release-3.1.4-43132.pup) Refer to the latest <i>Polycom HDX Systems Release Notes</i> for more information.	✓	✓	✓	✓	✓
HDX software version without encryption: polycom-hdx-release-3.1.4_ne-43132.pup	✓	✓	✓	✓	✓

Release Notes

Polycom Immersive Telepresence (ITP), Version 3.1.4

Software/Firmware	RPX	OTX	TPX	ATX SDK	ATX
Polycom Touch Control Operating System version: 1polycom-venus-platform-1.12.0-20.zip	✓	✓	✓		✓
Polycom Touch Control Applications version: polycom-venus-HDXCtrl-1.12.0-11.zip	✓	✓	✓		✓
Crestron software version: 3.1.4 (RPX_3.1.4-1?.zip)	✓				
Crestron software version: 3.1.4 (TPX_3.1.4-1?.zip)		✓	✓		✓
Crestron AV2/PRO2 firmware version: 4.001.1012 (Feb 17 2009) (pro2_av2_cp2_cp2e_rack2_pac2_4.001.1012.zip)	✓	✓	✓		✓
Crestron Touch Panel firmware version: 3.001.0015 (tps-3000_tps-3000l_tps-3100_tps-4000_tps-4000l_3.001.0015.zip)	✓	✓	✓		✓
LINAK firmware version: 1.22		✓			
Delta projector firmware version for VW7008 projectors: FD34+SD33. The full file names are FD34-VW7008-20110308 and SD33-VW7008-20110307.	✓				
Delta projector firmware version for VW7028 projectors: FP05+SP05. The full file names are FP05-VW7028BBCP-20110309 and SP05-VW7028BBCP-20110308.	✓				
WolfVision document camera firmware version: VZ models: 1.22a EYE-12: 2.00e	✓	✓	✓	✓	✓
Polycom Converged Management Application™ (CMA®) version: 6.2.5 ER22 Refer to the latest <i>Polycom Converged Management Application (CMA) Release Notes</i> for more information.	✓	✓	✓	✓	✓
Distributed Media Application™ (DMA®) 7000 version: 6.1.2 Refer to the latest <i>Polycom Distributed Media Application (DMA) Release Notes</i> for more information.	✓	✓	✓	✓	✓
RealPresence® Collaboration Server 2000 version: 8.4.0 Refer to the latest <i>Polycom RealPresence Collaboration Server Release Notes</i> for more information.	✓	✓	✓	✓	✓
RealPresence Collaboration Server 4000 version: 8.4.0 Refer to the latest <i>Polycom RealPresence Collaboration Server Release Notes</i> for more information.	✓	✓	✓	✓	✓
RealPresence® Resource Manager version: 8.2.0 Refer to the latest <i>Polycom RealPresence Resource Manager System Release Notes</i>	✓	✓	✓	✓	✓



You are encouraged to upgrade all your Polycom systems with the latest software before contacting Polycom support to ensure the issue has not already been addressed by vendor software updates. Go to [PolycomService/support/us/support/service\\_policies.html](https://polycomservice/support/us/support/service_policies.html) to find the current Polycom Supported Products matrix.

## Upgrading the Software to Version 3.1.4

Before upgrading the software, note the following:

- Your ITP system may have been shipped with the correct version of HDX and Polycom Touch Control software loaded. Check your system's software versions against the versions listed in the previous section. If you already have the correct versions loaded, you do not have to upgrade the software; however, you must still enter the option key as described in the following bullet.
- In order to upgrade the ITP software to version 3.1.4 from a version earlier than Version 3.0, you must obtain an HDX software upgrade key and a new option key from Polycom Support at [support.polycom.com](https://support.polycom.com). If you are using the Polycom Touch Control, you must also obtain a new option key. The option key enables the options that are required for Immersive Telepresence. Note that you must have an active maintenance contract to obtain the keys.
- For all ITP systems, if you are not planning to deploy TIP, you must go to the **Admin Settings > Network > Call Preference** screen in the HDX web UI. If the **SIP** and **TIP** check boxes are selected, clear the checkmarks from the check boxes.
- When you upgrade to HDX software version 3.0.1 or later, the directory entries are converted to a new format. If you ever have to revert to an HDX software version earlier than version 3.0.1, you must use the Polycom Telepresence Tool HDX Directory Downgrade tool to revert the entries to the format that existed prior to version 3.0.1. This will enable the directory entries to work correctly. For more information about the HDX Directory Downgrade tool, refer to the *Polycom Immersive Telepresence (ITP) Administrator's Guide*.
- For TPX, if you are upgrading the software only to TPX HD version 3.1.4 from an earlier version, refer to Chapter 5, "Configuring the TPX HD 306M," and Chapter 6, "Configuring and Aligning the Displays and Cameras," in the *Polycom TPX HD 306M Installation Guide, Version 2.6* (part number 3725-27345-007). Each section in these chapters tells you specifically what procedures you need to perform when upgrading the software from an earlier version.

To upgrade the software to version 3.1.4 from an earlier version, the installer must follow these configuration procedures:

- 1 Download the appropriate software and firmware.
- 2 For RPX, upgrade the Delta projector firmware if necessary.



If you are upgrading the software to version 3.1.4 and your system has Delta projectors, you must ensure that the Delta projector firmware is at the correct version listed in the previous section. This may require you to upgrade the projector firmware. The firmware upgrade must be performed onsite by a trained installer.

- 3 Upgrade the HDX software and configure the System Controller.
- 4 Upgrade either the Polycom Touch Control (for ITP sites with a Polycom Touch Control) or the Crestron Touch Panel software (for ITP sites with a Crestron Touch Panel).

- 5 Enable optional features in the System\_Config.ini file as needed.
- 6 Run the Telepresence Tool.
- 7 Pair the Polycom Touch Control device with the HDX and the System Controller (for ITP sites with a Polycom Touch Control).
- 8 Configure the H.323 gatekeeper, the SIP server, and the Global Directory as needed. Note that GDS is not supported with ITP. LDAP must be used for the Global Directory.
- 9 Manage Favorites (for sites with a Polycom Touch Control) or the local directory (for sites with a Crestron Touch Panel) as needed.
- 10 Enable TIP, manage user-initiated multipoint conferences, and disable DBA as needed. For RPX, if you are performing a software upgrade and are deploying TIP, you also need to upgrade your suite to the Hardware Revision I Ceiling Microphone Array placement scheme.
- 11 For sites upgrading from hardware revision A/software version 2.7 only: Configure the cameras. (OTX)
- 12 For RPX, align and calibrate the projectors (if you upgraded the projector firmware).
- 13 For RPX, configure, align, and match the cameras (if you upgraded the projector firmware).
- 14 Verify the microphone audio.
- 15 For sites that are deploying TIP, calibrate the Ceiling Microphone Arrays.



The Delta VW7028 and VW7008 projectors must not be installed within the same suite, as this is unsupported.

For complete information about how to perform these steps, refer to the following documents:

- *Polycom RealPresence Experience (RPX) HD 400 Series Installation Guide*
- *Polycom RealPresence Experience (RPX) HD 200 Series Installation Guide*
- *Polycom Immersive Telepresence (ITP) Administrator's Guide*

## Corrected Issues in Version 3.1.4

The following table lists the issues corrected in version 3.1.4:

Category	Issue ID	Description
Content	VIDESC-11131	The Content button on the Polycom Touch Control now sends content after one button push, rather than three.
Interoperability Polycom Touch Control	VIDEO-110698	You might have experienced loss of pairing between a Polycom Touch Control and an ITP system. When this occurred, the pairing was not restored automatically even though the equipment was connected correctly. This problem has been corrected.
User Interface	VIDESC-10950	After upgrading to version 3.1.2, only the primary codec connected when dialing a Virtual Meeting Room (VMR). This issue has been fixed.

## Corrected Issue in HDX Version 3.1.3.2

The following table lists the issue corrected in HDX version 3.1.3.2:

Category	Issue ID	Description
Security	VIDEO-111207	The OpenSSL Security Vulnerability (in third party software) might allow a remote attacker to expose sensitive data, possibly including user authentication credentials and secret keys, through incorrect memory handling in the TLS heartbeat extension. The vulnerability, dubbed "heartbleed", is published as CVE-2014-0160, and is described at <a href="http://heartbleed.com">http://heartbleed.com</a> . This issue has been addressed in HDX Software version 3.1.3.2 by updating the OpenSSL library used in HDX systems to version 1.0.1g; this version eliminates the vulnerability in the library. For details, see the OpenSSL Security Advisory at <a href="http://www.openssl.org/news/secadv_20140407.txt">http://www.openssl.org/news/secadv_20140407.txt</a> .

## Corrected Issues in Version 3.1.2

The following table lists the issues corrected in version 3.1.2.

Category	Issue ID	Description
Audio	VIDEO-108853	DTMF entries from the Polycom Touch Control were not recognized when you entered a meeting ID on the Polycom Touch Control. Repeated prompts for a meeting ID caused the call to disconnect. This could occur when the SIP audio add-in was executed during OTX 300 system calls to AT&T TPS meetings (TIP enabled). This problem has been corrected.
Audio	VIDEO-108387	In a point-to-point call between an ITP system and a CTS Datagram Transport Layer Security (DTLS) system, you might have experienced poor audio that strongly reverberated.
Calling	VIDEO-109403	During a call, your OTX 300 system with version 3.1.0 software might have restarted. This was due to allocated memory not being freed properly. This problem has been corrected.
Cameras	VIDEO-108144 VIDEO-107970 VIDEO-106713	When using the Telepresence Tool to connect to an OTX 300 system and Polycom RealPresence Experience (Polycom RPX), you might have seen that the Camera Matching tab settings were disabled. This problem has been corrected.
Content	VIDEO-105490	During ITP system point-to-point calls, the document camera may stop displaying when laptop content is sent using People+Content IP before the document camera has been turned on.
Content	VIDEO-109369	After you selected the <b>Content</b> button on the OTX touch panel, it took about one minute to send content or to stop content. This problem has been corrected.
Interoperability Cisco	VIDEO-108028	During an OTX 300 system conference over a Cisco TelePresence System (CTS) bridge, you may experience frozen or black video if a CTS codec disconnects from the conference. This problem has been corrected.
Interoperability Polycom Touch Control	VIDEO-109421	When using a USB drive to share content on the Polycom Touch Control, the USB drive icon on the Content screen disappeared when you toggled between the Content screen and the Home screen. This scenario was observed only when the Polycom Touch Control was integrated with ITP systems. This problem has been corrected.
Security	VIDEO-108405	When the SIP_ENCRYPTION_KEY_EXCHANGE_MODE flag was set to SDES, your connection in a conference call between an HDX system, OTX system, and a RPX system might have failed. This problem has been corrected.
TIP	VIDEO-108394	During a TIP-enabled call from an ITP system to a CTS 500 system, if a speaker moved to different locations in the OTX system room, the secure call might have hung up automatically during camera switching. This occurred when encryption was set to <b>When Available</b> . This problem has been corrected.



Release Notes

Polycom Immersive Telepresence (ITP), Version 3.1.4

---

Category	Issue ID	Description
TIP	VIDEO-108385	During TIP calls with external interactive voice response (IVR) service enabled, you might have heard the IVR message on the OTX system before content was displayed. In this scenario, music was heard 3 to 5 seconds before the content appeared. This problem has been corrected.
TIP	VIDEO-108147	During encrypted DTLS calls with virtual room meeting set to <b>Prefer TIP Enabled</b> , you might have experienced intermittent packet loss on OTX system video calls. This issue occurred during CTS to RMX to OTX calls. This problem has been corrected.
TIP	VIDEO-108724	During secure TIP calls made from a Polycom Touch Control to OTX and TPX systems, the primary codec might have taken up to 60 seconds to power on. This problem has been corrected.
User Interface	VIDEO-108033	When you assigned an Admin password with the character @ as the first character, you might have noticed the following: buttons seemed to disappear from the ITP Admin screen; information on the ITP System screen appeared to be missing. This problem has been corrected.

## Known Issues

### For Users

The following table lists the known issues for the version 3.1.4 release relevant to ITP end users. All issues apply to ITP systems with the Polycom Touch Control as well as to ITP systems with the Crestron Touch Panel unless otherwise noted. If a workaround is available, it is noted in the table.

Category	Issue ID	Found in Release	Description	Workaround
Audio/Video Calls		3.0.3	When both SIP and H.323 are enabled on an ITP endpoint, it does not support automatic rollover from one protocol to the other when dialing multi-screen calls.	Configure directory and favorite entries to include only one address type, not both H.323 and SIP. Also, configure the HDX preferred dialing method to "auto" and set the video dialing order to use the most common protocol (either SIP or H.323) first. If a particular call does not connect with the first protocol, the ITP system will attempt using the other protocol, but only the center screen will connect. If you are using Polycom Calendaring for Outlook, and you need to have both H.323 and SIP enabled, set the video dialing order to first use the protocol that is configured for your calendared meetings. Otherwise, only the center screen of the ITP endpoint will connect to the calendared meeting.
Audio/Video Calls		3.0.5	In an OTX call with an RPX, when the OTX is put on hold, only the primary codec is on hold. The secondary codecs are still in an active call.	None
Audio/Video Calls		3.0.5	The ITP system will not accept any incoming audio calls when it is already in a video call.	Place outgoing audio calls instead of receiving incoming audio calls when you are already in a video call

Category	Issue ID	Found in Release	Description	Workaround
Audio/Video Calls		2.5	On rare occasions, pressing the audio Speed Dial button once (or the Dial button for manually placed calls) does not dial the call.	If needed, press the audio Speed Dial button or the Dial button twice in order to complete the call.
Audio/Video Calls		1.5	When DTMF tones are heard during the process of dialing an audio call, the near-end and far-end audio is muted for a brief moment.	None
Audio/Video Calls		1.0.1	(RPX only) If the projectors are in sleep mode when an incoming video call is automatically accepted by the RPX, it may take up to 70 seconds for the projectors to automatically power up. During the 70 seconds that it takes for the projectors to warm up and show far-end video, the RPX meeting participants may not notice that the call has been established.	Verify that the projectors are powered up before placing or receiving any video calls.
Audio/Video Calls		1.0.1	(RPX only) If the projectors are in sleep mode when a video call comes in, any codecs that are not being used will very briefly show near-end video. This only occurs when the number of near-end codecs is more than the number of far-end codecs, such as when a RPX 400 on the near end receives an incoming call from an RPX 200 on the far end, or when either an RPX 400 or 200 receives an incoming call from a single endpoint (VSX or HDX).	None

Category	Issue ID	Found in Release	Description	Workaround
Audio/Video Calls		3.0.5	(OTX and TPX only) If the displays are in sleep mode when a video call comes in, any codecs that are not being used will very briefly show near-end video. This only occurs when the number of near-end codecs is more than the number of far-end codecs, such as when an OTX on the near end receives an incoming call from an RPX 200 or a single endpoint (such as an HDX system) on the far end.	None
Audio/Video Calls		1.0.1	If you hang up an incoming call and then immediately place an outgoing call, the ITP system may not hang up the initial incoming call. (Crestron Touch Panel only)	Wait approximately 20 seconds between consecutive calls.
Audio/Video Calls		3.0.5	If the ITP system is in a single endpoint video call (such as with a VSX or HDX video conferencing system) and the Do Not Disturb feature on the RPX or OTX is disabled, an incoming call from a two-codec or three-codec system will cause the center camera on the RPX or OTX to momentarily move to the side before returning to its correct position.	None
Audio/Video Calls		3.0.5	(OTX and TPX only) When the video quality is set to <b>Sharpness</b> , a thin gray line is present at the bottom of the cells when connecting OTX, TPX, and RPX endpoints to a conference running on RMX 2000 or RMX 4000 with MPMx.	None

Category	Issue ID	Found in Release	Description	Workaround
Audio/Video Calls		2.5	(RPX and TPX only) If you place a point-to-point call to an RMX™ Virtual Meeting Room (VMR) and then add a site to the call from the Conference List on the Meeting Composer screen (with the Enhanced UI only), the point-to-point call will be dropped and a multipoint call will be created with the VMR as a participant in that multipoint call.	Hang up the VMR call and then make a new call with the participants that you want in that call.
Audio/Video Calls		2.5	(RPX and TPX only) When you place a call to an RMX VMR using the following syntax, the call will not go through: IP##MeetingRoomID.	Place the call using this syntax: MeetingRoomID@IP (for example, 255000@172.25.130.21).
Audio/Video Calls		3.0.5	(OTX and TPX only) Occasionally, while in a call showing People+Content IP, the People+Content IP connection will drop when the call ends and the tabletop content monitors will lower.	To continue sending content, you will need to use People+Content IP to send the content again.
Audio/Video Calls		3.0.5	If you use Meeting Composer™ to add two audio sites to a call and then press <b>Join</b> , only one of the sites may connect. Additionally, if you are already in a call that includes an audio site and you attempt to add another audio site to the call, the new audio site may not connect.	Connect to the video sites first using the RMX, and then individually add the audio sites.
Audio/Video Calls	VIDEO-105449	3.1.0	(OTX and ATX only) Occasionally, in OTX and ATX point-to-point calls with the CTS3010, there will be an echo on the OTX and ATX within five minutes.	Using the Polycom Touch Control, mute and unmute the system.
Camera	VIDEO-109262	3.1.2	During OTX 300 system calls running Telepresence Tool, the Camera Focus settings are not retained. When this occurs, the Focus_Position register does not always return the value written.	

Category	Issue ID	Found in Release	Description	Workaround
Content	VIDEO-109273	3.1.2	In a multipoint call involving HDX systems sharing content, the codecs might restart unexpectedly. This might also occur with ITP systems that have TIP (SIP) enabled.	
Content		3.0.3	If you hang up a call, content being shown locally disappears. For standard OTX 100 and OTX 300 systems, content monitors automatically lower.	This is a security feature. You will need to resend your content after you hang up a call.
Content		2.5	(RPX only) If you share content using a laptop, for best results, set its input resolution to 1024x768 and its refresh rate to 75 Hz. This will ensure that the content image renders correctly.	None
Content		3.0.2	For VGA content, a shift of 2-3 pixels may be seen locally and a shift of up to 5 pixels on the far end.	None
Content		3.0.5	(TPX only) If you are viewing content on the right screen and you stop sharing the content, you will momentarily see near-end video on the right screen.	None
DMA	DMA-9875	3.1.0	Multi-point calls cannot be configured using the Polycom Touch Control Meeting Composer feature if DMA version 5.1 is performing the gatekeeper function.	For customers using the DMA gatekeeper and Meeting Composer feature on the Polycom Touch Control to configure multipoint calls, DMA version 5.0 should NOT be upgraded until the next version of DMA is available.
Document Cameras		2.0	(RPX and TPX only) The Eye-10 document camera used in some custom solutions does not support the Freeze function that is available for other document camera models.	None

Category	Issue ID	Found in Release	Description	Workaround
Monitors	VIDEO-111706	3.1.4	When an ATX room system is idle, the monitors look blank, but the cameras remain pointed forward and the screen saver does not start.	None
Monitors	VIDEO-109274	3.1.2	When your OTX 300 and RPX 400 systems are attached to a laptop HDMI through Displayport in extended display mode, you might see green dots or speckles in the center of the screen. This issue is more visible on PowerPoint slides, especially those with dark backgrounds.	Remove the combiner connected to the codec to improve the display problem. (VGA/DVI splitter, part number 1457-61827-001)
SmartPairing	VIDEO-111365	3.1.4	SmartPairing is unsupported in environments where more than one HDX codec is in the room setup.	None
TIP	VIDEO-108912	3.1.2	When running multiple instances of Telepresence Tool to configure systems, the auxiliary codec settings are not stored properly in the primary codec.	Use only one instance of Telepresence Tool (per PC) to run the configuration script.
TIP	VIDEO-108707	3.1.2	During TIP calls with external interactive voice response (IVR) service enabled, you might hear the IVR message on the OTX system before content is displayed. In this scenario, music is heard 3 to 5 seconds before content appears.	
TIP		3.0.5	When an ITP system is in a CTMS call with a CTS or another ITP system, the ITP system may not receive audio from the CTS system.	Hang up and dial again.
TIP		3.0.5	(OTX only) When an OTX system is in a video call with a CTS 3010 system, video with little or no movement may become pixelated.	Hang up and dial again.

Category	Issue ID	Found in Release	Description	Workaround
TIP	VIDEO-109263	3.1.2	In a TIP audio add-in video call after audio is established, the call might connect as SIP audio only. This issue might occur during video calls involving HDX systems or OTX systems registered to CUCM.	
TIP	VIDEO-109257	3.1.2	When an OTX 300 system is registered to CUCM and dials into a CTMS bridge, the call negotiates as 6900K/720p instead of 9756K/1080p on the first attempt. In this scenario, the OTX 300 system is also using SIP and Transport Layer Security (TLS) settings and is enabled with AES Encryption and TIP	
User Interface: Both Polycom Touch Control and Crestron Touch Panel		1.0.1	In an audio call from an ITP system to a cellular phone or analog phone, if the remote user disconnects the call first, then the Polycom Touch Control or the Crestron Touch Panel continues to show the audio call as in progress.	Manually press the <b>Hang Up</b> button after each audio call is completed. The ITP system will not accept incoming audio or video calls when the <b>Hang Up</b> button is off hook.
User Interface: Crestron Touch Panel Only		3.1.0	If you manually dial a call using the main dial pad and then open Meeting Composer to add an address, the initial point-to-point call stays connected, preventing going from a point-to-point call to a multipoint call.	Use the Meeting Composer dial pad instead of the main dial pad to create the first point-to-point call.



Category	Issue ID	Found in Release	Description	Workaround
User Interface: Crestron Touch Panel Only		1.0.1	If you press the <b>Content</b> button on the Touch Panel when no content source (such as a laptop) is connected to the ITP system with the VGA cable, the Primary HDX codec will generate a hidden message on the Primary codec's display. The message states "PC input resolution and/or refresh rate not supported." This message will not be visible onscreen because the ITP system is programmed to picture mute all displays when the system is not in a call. If you establish a video call while the message is activated, the call will take longer than usual to connect.	Wait three seconds (during which time the message will time out) before placing a video call from the Touch Panel.
User Interface: Crestron Touch Panel Only		1.5	(TPX only) Manually press the <b>Hang Up</b> button after each audio call is completed. The TPX HD will not accept incoming audio or video calls when the <b>Hang Up</b> button is off hook.	In an audio call from a TPX HD to a cellular phone or analog phone, if the remote user disconnects the call first, then the Touch Panel continues to show the audio call as in progress.
User Interface: Crestron Touch Panel Only		2.5	When searching for a site in the global directory with the Touch Panel Enhanced UI, up to nine characters can typically be displayed on the screen. However, depending on the width of the letters in the name, more or less of the site name may be truncated.	None
User Interface: Crestron Touch Panel Only		2.7.1	With Meeting Composer, when dialing a phone number with more than 10 digits, or dialing any other long string such as extension@IP_address (ex: 123456@172.25.130.201), the string will likely be truncated when displayed in the right-hand pane of the Touch Panel.	None

Category	Issue ID	Found in Release	Description	Workaround
User Interface: Crestron Touch Panel Only		2.7	If you place a point-to-point call to an RMX Virtual Meeting Room (VMR) and then add an audio-only site to the call, the two columns on the left side of the Meeting Composer screen in the Touch Panel Enhanced UI will go blank and the icons at the top of the columns will become grayed-out.	None
User Interface: Crestron Touch Panel Only		2.7	When Polycom Conferencing for Microsoft Outlook (PCO) is used to schedule multiple meetings and you select one of the meetings on the Touch Panel, the details for that meeting display on the left side of the Touch Panel screen. If that meeting is cancelled, it is removed from the meeting list; however, the details of the cancelled meeting are still displayed on the left side of the Touch Panel screen.	To fix this issue, simply select a different meeting from the meeting list.
User Interface: Crestron Touch Panel Only		3.0.1	The Touch Panel may indicate that a password is not required for meetings that actually are password-protected. If you try to join the meeting, the Touch Panel will prompt you for the password and you must enter it to join the meeting.	None
User Interface: Crestron Touch Panel Only		3.0.1	If you use the DTMF dial pad in the Touch Panel Enhanced UI to manually enter a site to call, and then you try to escalate the call from point-to-point to multipoint, the calls will not connect correctly.	Use the Meeting Composer dial pad to manually enter a site to call. The DTMF dial pad in the Enhanced UI was not intended to be used to manually dial calls and should never be used for this purpose.
User Interface: Polycom Touch Control Only		3.0.5	When using the Polycom Touch Control to join a meeting with more than one video dial protocol (i.e. H323 or SIP), the ITP codec may not connect.	Manually dial in to the meeting using the Place A Call screen on the Polycom Touch Control. Use only one dial protocol in the meeting invitation (i.e. H323 or SIP).

Release Notes

Polycom Immersive Telepresence (ITP), Version 3.1.4

Category	Issue ID	Found in Release	Description	Workaround
User Interface: Polycom Touch Control Only		3.0.1	If your system administrator has configured your system to use the calendar feature and you have two or more meetings scheduled at the same time, the Polycom Touch Control will display a meeting reminder for only one of the meetings.	None
User Interface: Polycom Touch Control Only		3.0.2	If you are already in a call, you cannot join a meeting using the Polycom Touch Control.	Hang up the current call before joining a meeting.
User Interface: Polycom Touch Control Only		3.0.1	When using the Polycom Touch Control, searching within a group in the global directory may not work properly.	None
User Interface: Polycom Touch Control Only		3.0.1	If you are in a multipoint call and you place an outgoing audio call while the <b>Video/Audio Only</b> toggle button is set to <b>Video</b> , that toggle button will disappear from the Polycom Touch Control screen.	When placing an audio call when you are already in a multipoint call, make sure that the <b>Video/Audio Only</b> toggle button is set to <b>Audio Only</b> .
User Interface: Polycom Touch Control Only	VIDEO-80077	3.0.5	(OTX only) For OTX systems, if you navigate to a different screen while in a call, the <b>Camera</b> button may disappear.	Hang up and place a new call. The <b>Camera</b> button will appear.

## For Administrators

The following table lists the known issues for the version 3.1.4 release relevant to ITP system administrators. All issues apply to ITP systems with the Polycom Touch Control as well as to ITP systems with the Crestron Touch Panel unless otherwise noted. If a workaround is available, it is noted in the table.

Category	Issue ID	Found in Release	Description	Workaround
Audio/Video Calls		2.0	If you use the web UI to place a call to one address and you do not use the default call speed, the codecs will not automatically adjust to the same call speed. The Primary codec will connect at the call speed specified in the HDX web UI Call Quality field, but the remaining codecs will connect at the default call speed.	Specify multiple addresses in the IP address field (e.g., 76223;76224;76225). Alternatively, use the web UI to connect to each codec individually at the desired call speed.
Audio/Video Calls		2.0	When the primary codec answers an incoming video call, any HDX codecs that are not being used will automatically accept any other incoming video calls if the following conditions exist: The ITP system is in a single endpoint video call with a VSX or HDX video conferencing system (video ad-hoc dialing). The RPX 400 is in a video call with an RPX 200 Series, a TPX™ 306M, or a TPX 204M. The OTX is in a video call with an RPX 200 or a TPX 204M. The TPX HD 306M is in a video call with an RPX 200 or a TPX 204M.	To prevent unused codecs from accepting any incoming calls, use the Do Not Disturb timer. To change the amount of time before Do Not Disturb is activated, access the DoNotDisturbTimer field in the System_Config.ini file. In this field, you can enter a value between 10 and 300, or leave the value at 0 if you want to keep the feature disabled: DoNotDisturbTimer=x where x is the value (in seconds) of the desired timeout period. For example, DoNotDisturbTimer=120 sets the parameter to 120 seconds.
Audio/Video Calls		2.0	When the ITP system is in a call, sending Telnet commands to change the video format may not work properly.	Do not use Telnet commands to change the video format when the RPX or OTX is in a call.

Category	Issue ID	Found in Release	Description	Workaround
Audio/Video Calls		2.5	(RPX only) When an RPX calls another RPX in a point-to-point call, the codecs begin to connect one at a time. If network resources become limited, not all of the codecs may connect, which may make it appear that one of the projectors is not working properly.	If a projector does not work correctly in a call, you should check if the codec connected. If it did not connect, reducing the call bandwidth may solve the issue.
Audio/Video Calls		2.7.1	If your ITP environment is configured to use both the LDAP directory and H.323 Gatekeeper functions, and your speed dial entries are not IP addresses, video calls may take longer to connect due to the additional communication involved between the various components in the solution.	None
Audio/Video Calls			For ITP systems configured for H.323 and registered with CMA version 6.0, the SIP/TIP options are disabled. After the ITP system reboots, the SIP/TIP options becomes enabled, and as a result, your call from the Global address book/LDAP does not go through.	Downgrade CMA to version 5.4 instead of version 6.0 or, after rebooting, manually disable the SIP/TIP options from the HDX web UI before you place or receive calls.
Cameras			(OTX and TPX only) If a cable to one of the cameras in the OTX room becomes detached, that camera may lose all of its camera settings from the Polycom Telepresence Tool.	Whenever a camera loses power, the HDX codec that is attached to that camera should be rebooted.
Cameras			(OTX and TPX only) The camera focus value that you set in the Focus field on the Telepresence Tool Camera Matching tab may change by one or two points after you configure the codecs. This is due to internal arithmetic processing, and can be safely ignored.	None

Category	Issue ID	Found in Release	Description	Workaround
Codecs			(TPX only) The <i>Secondary</i> codec was previously referred to as the <i>Left</i> codec. The <i>TPX HD 306M Wiring Specification</i> and the Admin screen correctly use the term <i>Secondary</i> ; however, the <i>TPX HD 306M Installation Guide</i> still uses the term <i>Left</i> .	None
Content			(OTX and TPX only) If the Primary HDX codec or the System Controller crashes, gets rebooted, or loses power while content is being shared in a video call, the displays will not show People video correctly.	For systems that use the Polycom Touch Control: Touch the <b>Initialize</b> button on the Admin screen to properly reset the displays.  For systems that use the Crestron Touch Panel: Touch the <b>Init Displays</b> button on the Admin screen to properly reset the displays.
Content			(TPX only) If you have a North American TPX version 2.6 or version 2.7 Hardware system (LG Electronics plasma display and widescreen content monitors), and you wish to configure the <i>View Content on the Right Display Screen</i> feature, the highest content resolution that is supported in this configuration is 1024x768. If you configure a higher resolution via the Telepresence Tool, it will result in corrupted video on the LG display. Note that when running in this 1024x768 mode, the content displayed on the content monitors will be pillarboxed.	Disable the View Content on the Right Display Screen feature, and view content on the content monitors.

Category	Issue ID	Found in Release	Description	Workaround
Control System		2.5	When you connect to the codecs through Telnet or through the Crestron Toolbox and use the command prompt, you may see “overflow buffer” and other error messages when you use the Polycom Touch Control or the Crestron Touch Panel. These errors also appear on the Crestron log. This issue does not affect system performance or functionality.	None
Microphones		2.7.1	If you disconnect the Polycom Ceiling Microphone Arrays and then connect any microphones other than Ceiling Microphone Arrays, the proper stereo settings may be lost.	Launch the Polycom Telepresence Tool, make sure that all the HDX codecs are connected, and then click <b>Configure HDXs</b> to set the microphones to their correct settings.
Interoperability Microsoft	VIDEO-111867	3.1.4	The OTX 300 primary codec is unable to register to a Lync server.	On the web interface, change the transport protocol to <b>Auto</b> and then <b>TLS</b> .
Software Installation and Upgrades			When installing the Polycom Touch Control operating system and software using the USB drive, the software may fail to load or you may see a message listing an incorrect software version.	Manually reboot the Polycom Touch Control while the USB device is in the drive.
Software Installation and Upgrades		3.0.2	When attempting to unpair the Polycom Touch Control from the System Controller during an upgrade, the Polycom Touch Control may remain paired.	Manually reboot the Polycom Touch Control to unpair it.
Software Installation and Upgrades	VIDEO-105449	3.0.2	When upgrading the HDX systems, you normally see a screen that displays an hourglass and a red progress bar. This screen may not appear for HDX PAL systems; however, the upgrade is still occurring and can be monitored through the web UI. The Home screen will appear on the displays when the upgrade is complete.	None

Category	Issue ID	Found in Release	Description	Workaround
Telepresence Tool			When using the Telepresence Tool to remotely monitor a site, you may notice stuttering video on the system's main people video screen.	Polycom recommends that you do not use the Telepresence Tool for remote monitoring while the system is in a video call.
User Interface: Both Polycom Touch Control and Crestron Touch Panel			If any of the HDX codecs are rebooted without rebooting the AV2 System Controller as well, the HDX UI remains onscreen.	Reboot the AV2 System Controller whenever any of the HDX codecs are rebooted. The VNOC, Service, and Site Administration teams are advised to reboot (power up) the AV2 System Controller after the HDX reboots (powers up) as part of the reset process or when recovering from a power failure. Placing a call without rebooting the AV2 System Controller will cause the Polycom Touch Control or the Crestron Touch Panel to freeze.
User Interface: Crestron Touch Panel Only		2.5	If you add a site from the CMA directory to the speed dial list and then later change the name of that site in the CMA directory, the speed dial entry name that is displayed on the Touch Panel may not be updated.	Reboot the codecs and the AV2 System Controller. Alternatively, from the HDX web UI, delete and re-add the renamed CMA site to the Speed Dial list.
User Interface: Crestron Touch Panel Only			If you reboot the Primary HDX codec while the RPX or OTX is in an audio call (with the Help Desk, for example), the <b>Hang Up</b> button on the Touch Panel will freeze.	Reboot the AV2 System Controller when the <b>Hang Up</b> button enters that frozen state.
User Interface: Crestron Touch Panel Only		2.0	When initially loading the Crestron Touch Panel and then loading the AV2 System Controller, a Toolbox Results dialog box may appear at the end of the installation process. Although this dialog box displays an error message, the installation completed successfully.	None



Category	Issue ID	Found in Release	Description	Workaround
User Interface: Crestron Touch Panel Only		3.0.1	Users report that the Touch Panel seems to take an unusually long time to return directory information.	Check if there are LDAP entries in the directory that are no longer valid. If there are such entries, correct them.
User Interface: Crestron Touch Panel Only			With the Crestron Touch Panel, using the suffixes '1', '2', '3', or '4' for your audio speed dial name entries may cause the system to incorrectly interpret them as an ITP system, instead of distinct audio speed dial entries.	Do not use the suffixes '1', '2', '3', or '4' for your audio speed dial name entries.
User Interface: Polycom Touch Control Only			When using the Polycom Touch Control to join a meeting with more than one video dial protocol (i.e. H323 or SIP), the ITP codec may not connect.	Manually dial in to the meeting using the Place A Call screen on the Polycom Touch Control. Use only one dial protocol in the meeting invitation (i.e. H323 or SIP).
User Interface: Polycom Touch Control Only			If you enter a site name that ends in the number '1', '2', '3', or '4', and then you make a call using the RMX, the RMX will interpret the site as part of an ITP system and will not display the site name on the Polycom Touch Control.	Do not use site names that end in the numbers '1', '2', '3', or '4'.
User Interface: Polycom Touch Control Only			If you reboot the Polycom Touch Control and then immediately attempt to use it, the Touch Control may not work properly.	Wait 30 seconds after the reboot completes before using the Polycom Touch Control.

## License Information

### OpenSSL License

Copyright (c) 1998-2012 The OpenSSL Project. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. All advertising materials mentioning features or use of this software must display the following acknowledgment:

"This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit.  
(<http://www.openssl.org/>)

4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact [openssl-core@openssl.org](mailto:openssl-core@openssl.org).

5. Products derived from this software may not be called "OpenSSL" nor may "OpenSSL" appear in their names without prior written permission of the OpenSSL Project

6. Redistributions of any form whatsoever must retain the following acknowledgment:

"This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit  
(<http://www.openssl.org/>)

IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This product includes cryptographic software written by Eric Young ([eay@cryptsoft.com](mailto:eay@cryptsoft.com)). This product includes software written by Tim Hudson ([tjh@cryptsoft.com](mailto:tjh@cryptsoft.com)).

## Original SSLeay License

Copyright (C) 1995-1998 Eric Young ([eay@cryptsoft.com](mailto:eay@cryptsoft.com)) All rights reserved.

This package is an SSL implementation written by Eric Young ([eay@cryptsoft.com](mailto:eay@cryptsoft.com))

This library is free for commercial and non-commercial use as long as the following conditions are to. The following conditions apply to all code found in this distribution, be it the RC4, RSA, lhash, DES, etc., code; not just the SSL code. The SSL documentation included with this distribution is covered by the same copyright terms except that the holder is Tim Hudson ([tjh@cryptsoft.com](mailto:tjh@cryptsoft.com)).

If this package is used in a product, Eric Young should be given attribution as the author of the parts of the library used. This can be in the form of a textual message at program startup or in documentation (online or textual) provided with the package.

1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. All advertising materials mentioning features or use of this software must display the following acknowledgement:

The word 'cryptographic' can be left out if the from the library being used are not cryptographic related :-).

4. If you include any Windows specific code (or a derivative thereof) from the apps directory (application code) you must include an acknowledgement:

"This product includes software written by Tim Hudson ([tjh@cryptsoft.com](mailto:tjh@cryptsoft.com))

THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``AS IS'' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY,

WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The and distribution terms for any publically available version or derivative of this code cannot be changed. i.e. this code cannot simply be copied and put under another distribution [including the GNU Public .]

## Copyright Information

© 2015 Polycom, Inc. All rights reserved.

Polycom, Inc.  
6001 America Center Drive  
San Jose, CA 95002  
USA

No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without the express written permission of Polycom, Inc. Under the law, reproducing includes translating into another language or format.

As between the parties, Polycom, Inc., retains title to and ownership of all proprietary rights with respect to the software contained within its products. The software is protected by United States copyright laws and international treaty provision. Therefore, you must treat the software like any other copyrighted material (e.g., a book or sound recording).

Every effort has been made to ensure that the information in this manual is accurate. Polycom, Inc., is not responsible for printing or clerical errors. Information in this document is subject to change without notice.

## Trademark Information

POLYCOM® and the names and marks associated with Polycom's products are trademarks and/or service marks of Polycom, Inc., and are registered and/or common law marks in the United States and various other countries.

All other trademarks are the property of their respective owners.

## Patent Information

The accompanying products may be protected by one or more U.S. and foreign patents and/or pending patent applications held by Polycom, Inc.