

poly 3.11.9 RealPresence Desktop for Windows User Guide

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Product Information

Product Name: Poly RealPresence Desktop for Windows

Version: 3.11.9

Release Date: June 2023

Product Code: 3725-69999-022A2

Description: Poly RealPresence Desktop for Windows is a video conferencing software that allows users to connect and communicate with others through audio and video calls. It supports various hardware and software configurations and provides a user-friendly interface.

What's New in This Release

Poly RealPresence Desktop 3.11.9 is a maintenance release that includes bug fixes only.

Security Updates

Refer to the Security Center for information about known and resolved security vulnerabilities.

Hardware and Software Requirements

The following are the hardware and software requirements for using Poly RealPresence Desktop:

- **Operating System:** Windows 10 (32-bit and 64-bit), Windows 8 and 8.1 Standard, Pro, and Enterprise (32-bit and 64-bit), Windows 7 (32-bit and 64-bit)
- **Processor:** RealPresence Desktop system's capabilities vary depending on processor performance.
Recommended CPU: Intel Core i5, 2.5 GHz or higher
- **RAM:** 4 GB
- **Video Memory:** Minimum: 256 MB
- **Hard Drive Space:** 200 MB
- **Camera:** Integrated or external
- **Audio Devices:** Standard PC97 audio devices

- **Monitor:** Any compatible monitor

Product Usage Instructions

Installation

Step 1: Install Microsoft .NET Framework version 4.0 if not already installed. You can check the installed version in C: WindowsMicrosoft.NETFramework.

Step 2: Determine the installation mode you want to use: standalone or managed.

- **Standalone Mode:** In standalone mode, you will need a license number and activation key code or license file to activate the product and use it beyond the 30-day trial period.
- **Managed Mode:** In managed mode, the .msi file is intended for use by experienced Windows administrators to support provisioned and silent installations.

Note: The .exe file is for standalone mode, and the .msi file is for managed mode.

Step 3: Run the appropriate installation file based on your chosen installation mode:

- **Standalone Mode (using .exe file):**

1. Locate and run the RealPresence Desktop installation file with the .exe extension.
2. Follow the on-screen instructions to complete the installation.
3. If prompted, enter the license number and activation key code or license file to activate the product.

- **Managed Mode (using .msi file):**

1. Locate and run the RealPresence Desktop installation file with the .msi extension.
2. Follow the on-screen instructions to complete the installation.

Note: For standalone mode, the .exe file provides an easy and interactive installation process for end users. For managed mode, the .msi file is suitable for experienced Windows administrators.

Language Selection

During the first-time installation of RealPresence Desktop, you can select one of the supported languages. The selected language will affect the language display during the installation process.

Note: The supported languages are English, International Spanish, French, German, Simplified Chinese, Korean, Japanese, Russian, Portuguese, Kazakh, Czech, and Traditional Chinese.

Viewing License Number

To view the license number of RealPresence Desktop:

1. Select **Polycom RealPresence Desktop** on the application's title bar.
2. Select the **About** option from the menu.

The license number will be displayed in the About window.

What's New in This Release

Poly RealPresence Desktop 3.11.9 is a maintenance release that includes bug fixes only.

Security Updates

See the Security Center for information about known and resolved security vulnerabilities.

Hardware and Software Requirements

The following hardware requirements were determined based on test scenarios. Your system's actual performance may vary based on software or hardware configurations.

Item	Requirement
Windows	Windows 10: 32-bit and 64-bit Windows 8 and 8.1 Standard, Pro, and Enterprise: 32-bit and 64-bit Windows 7: 32-bit and 64-bit
Processor	<p>RealPresence Desktop system's capabilities vary depending on processor performance. The processor types and speeds listed below are intended as reference. RealPresence Desktop has equivalent capabilities on other processors with equivalent performance.</p> <p>Recommended CPU: Intel Core i5, 2.5 GHz or higher.</p> <p>Basic Video Transmit (up to QVGA 30 fps sending, up to 720p 15 fps receiving)</p> <ul style="list-style-type: none">· Single core· Dual logical cores, lower than 2.0 GHz· Quad logical cores, lower than 1.3 GHz <p>Premium Video Transmit (up to VGA 30 fps sending, up to 720p 30 fps receiving)</p> <ul style="list-style-type: none">· Dual logical cores, 2.0 GHz or higher· Quad logical cores, 1.3 GHz or higher HD Transmit· Quad logical cores, 2.0 GHz or higher, fourth generation or newer Intel CPU (up to 720p 30 fps sending, up to 1080p 30 fps receiving)· Dual logical cores, 2.5 GHz or higher (up to 720p 15 fps sending, up to 720p 30 fps receiving)· Quad logical cores, 1.6 GHz or higher (up to 720p 15 fps sending, up to 720p 30 fps receiving)· Apple M1 processor
RAM	4 GB
Video memory	Minimum: 256 MB
Hard drive space	200 MB
Camera	Integrated or external

Item	Requirement
Audio devices	Note: RealPresence Desktop only supports directly connecting with common cameras. RealPresence Desktop doesn't support connecting with video transcoding devices, for example, BlackMagic Web Presenter.
Monitor	Standard PC97 audio devices

Install RealPresence Desktop


This section discusses how to install RealPresence Desktop in both standalone and managed mode. In standalone mode, you will need a license number and activation key code or license file to activate the product and use it beyond the 30-day trial period.

The RealPresence Desktop installation file is available in two formats:

- The .exe file is intended for easy, interactive installation by end users in standalone mode.
- The .msi file is intended for use by experienced Windows administrators to support provisioned and silent installations in managed mode.

Installation Notes

Here are some things to consider when doing a RealPresence Desktop installation:

- Installation of the RealPresence Desktop application requires that you have Microsoft .NET Framework version 4.0 installed. You can view your Microsoft .Net Framework version in C:\Windows\Microsoft.NET\Framework.
- The RealPresence Desktop user interface supports the following languages: English, International Spanish, French, German, Simplified Chinese, Korean, Japanese, Russian, Portuguese, Kazakh, Czech, and Traditional Chinese.
- When installing RealPresence Desktop for the first time, you can select one of the supported languages. The language you selects affects the language display during installation process.
- The RealPresence Desktop installation user interface doesn't support Kazakh because the Windows InstallShield doesn't support Kazakh.
- You can view the license number of the RealPresence Desktop by selecting Polycom RealPresence Desktop  on the application's title bar and selecting the About option.

Install RealPresence Desktop in Standalone Mode

This section describes how to install RealPresence Desktop in standalone mode. The .exe file is intended for easy, interactive installation by end users.

To install RealPresence Desktop using the .exe file:

1. Download the .exe file from Poly Support.
2. Open the file and follow the instructions in the installation procedure.

To activate RealPresence Desktop license:

1. Start the RealPresence Desktop application and in the Individual Account box select Enter.
2. Select Activate to activate the application with a license. Then do one of the following:
 - Select More to select a license file.
The license file is a .txt file that contains the license number and activation key.
 - Specify your License Number and Activation Key Code manually. You can press the TAB key to navigate among different text fields.
You can also copy your key string, select in the first text field, and then press Ctrl + V to paste it.
3. Select Activate.

Install RealPresence Desktop in Managed Mode

In managed mode, an administrator can distribute the latest version of RealPresence Desktop to all managed systems. To do this, the administrator uploads the RealPresence Desktop distribution package (.tar.gz) to the Poly Clariti Manager system. This process is described in detail in the Distribute Polycom Applications topic in the Poly Clariti Manager Administrator Guide.

Upgrade RealPresence Desktop Through Poly Clariti Manager

This section describes how to upgrade RealPresence Desktop when an upgrade package is available on the Poly Clariti Manager.

The Poly Clariti Manager can schedule and perform limited monitoring of the RealPresence Desktop application as well as manage and provision the application. The CMA system can't upgrade the RealPresence Desktop application, and the Poly Clariti Manager system can upgrade the application only from version 8.0.

For more information on upgrading managed RealPresence Desktop systems, see the Using Dynamic Software Updates Applications topic in the Poly Clariti Manager Administrator Guide.

To check upgrade

1. Select the RealPresence Desktop logo on the application's title bar.



2. Select Check Upgrade.

Install RealPresence Desktop in Microsoft Centralized Distribution Mode

Corporate system administrators use centralized distribution for software installation or upgrades. To do this, the administrator makes use of the Centralized Distribution package (.zip).

The .msi file is intended for use by experienced Windows administrators to support managed, provisioned, and

silent installations. These procedures use methods such as Group Policy Objects (GPOs). You must already be familiar with these methods to use the .msi installation file.

About the .msi file

- When you save the .msi file to your local disk, don't rename it.
- Silent installation requires administrator level permission.
- The name of the .msi in your command line must be consistent with the installation package

By choosing the correct installer, you can install the application in different user space:

- RPDesktopSystemInstall.msi: Installs the executable in the admin space (C:/Program Files/) and the application is available to all users.
- RPDesktop.msi: Installs the executable in the user space (C:/Users/<username>/APPDATA/) and the application is available only to this user.
 - To work with Poly RealPresence Web Suite, you must install the .msi to your user space (C:/Users/<username>/APPDATA/).

To install RealPresence Desktop using code commands:

- Save the .msi installation file of RealPresence Desktop to a directory:
- RPDesktopSystemInstall.msi: Saves it to a directory under C:/Program Files/.
- RPDesktop.msi: Saves it to a directory under C:/Users/<username>/APPDATA/.
- Build a desktop management or group policy object that writes the .exe installation file to the directory.
- Run the command line in Command Prompt to install RealPresence Desktop.
Msiexec /qn /i <installer_name> /!v log

Silent Installation of RealPresence Desktop with Options Enabled

As part of that installer, the administrator can include a command-line statement to set configuration parameters that affect the user interface.

From version 3.9, the configured parameters below are only valid for the first-time installation of RealPresence Desktop. Upgraded RealPresence Desktop uses the configurations saved from the previous release.

The format of this silent installation with options command-line statement is:

```
msiexec /qn /i <installer_name>
```

```
CMDLINE="<parameterkey1>=<parametervalue1>;<parameterkey2>=<parametervalue2>;..." /!v log
```

- How to set default call rate to 512k when using silent installation:
msiexec /qn /i <installer_name> CMDLINE="DEFAULT_CALL_RATE=CALLRATE512" /!v log
- How to enable shorten SDP feature when using silent installation:
msiexec /qn /i <installer_name> CMDLINE="SUPPORT_SIMPLE_SDP=true" /!v log
- How to enable single sign-on feature when using silent installation:
msiexec /qn /i <installer_name>
CMDLINE="ENTRANCE_MODE=1;ENABLE_CMA=true;CMA_SERVER_ADDRESS=pctcgk.polycom.com;CMA_|

EGRATED_LOGIN=true" /!*v log

- The following table identifies some of the RealPresence Desktop configuration parameters that can be set as part of the silent installation:

Feature	Parameter Keys	Possible Parameter Values
Set default call rate	DEFAULT_CALL_RATE	AUDIOONLY= 64 CALLRATE256 = 256 CALLRATE384 = 384 CALLRATE512 = 512 CALLRATE768 = 768 CALLRATE1024 = 1024 CALLRATE1920 = 1920
Enable Simple Session Description Protocol (SDP) size adjustment feature for SIP	SUPPORT_SIMPLE_SDP	TRUE or FALSE
Enable Managed mode	ENTRANCE_MODE	0 = Stand-alone mode 1 = Managed mode
Enable provisioning server	ENABLE_CMA	TRUE or FALSE
Identify provisioning server	CMA_SERVER_ADDRESS	
Enable single sign-on	CMA_INTEGRATED_LOGIN	TRUE or FALSE

Upgrade RealPresence Desktop using Code Commands

You can upgrade RealPresence Desktop using code commands.

To upgrade RealPresence Desktop using code commands:

1. Save the msi installation file of RealPresence Desktop to a directory (for example, C:\temp) on your local system.
2. Build a desktop management or group policy object that will write the .exe installation file to a directory (for example, C:\temp) on your local system.
3. Run the command line in Command Prompt to install RealPresence Desktop.

The following is an example of using the installer from the directory where the Polycom RealPresence Desktop .msi file resides:

```
msiexec /qn /i <installer_name> /!*v log
```


If you run the installation from a directory other than the directory where the executable file resides, include the full path in the command:

```
msiexec /qn /i "c:\temp\<installer_name>" /! *v log
```

Uninstall RealPresence Desktop Using Code Commands

This section describes how to uninstall RealPresence Desktop application using code commands.

To uninstall RealPresence Desktop using the .msi file:

Run this command:

```
msiexec /qn /x <installer_name>
```

If corporate security policy blocks the MSI uninstallation command performed by a non-admin computer user, the user may fail to uninstall the RealPresence Desktop 3.9. You can use WMIC as an alternative.

To uninstall RealPresence Desktop using WMIC.exe:

Run this command:

```
WMIC product where name="Polycom RealPresence Desktop" call uninstall /noninteractive
```

Products Tested with This Release

The RealPresence Desktop is tested with other products. The following list is not a complete inventory of compatible equipment. It indicates the products that have been tested for compatibility with this release.

Poly recommends that you upgrade your Poly devices with the latest software versions, as compatibility issues may already have been addressed by software updates. See the Current Poly Intraoperability Matrix to match product and software versions.

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Type	Product
Gatekeeper, Gateways, External MCU, Bridges, Call Managers	Poly Distributed Media Application (DMA) 7000
	Poly Clariti Manager
	Poly RealPresence Collaboration Server (RMX) 800, Virtual Edition
	Poly Clariti Relay
Endpoints	Poly RealPresence Group 500
	Poly RealPresence Desktop
	Poly RealPresence Mobile

Interoperability Issues

You may encounter the following issues when using RealPresence Desktop with other products or on specific operating systems.

Description	Solution
On a 64-bit Windows 7 operating system, selecting Polycom CX5000 Panoramic Video as the video device displays a blue screen.	On 64-bit Windows 7, use another video device.
On a 32-bit Windows 7 operating system, when you share a Microsoft PowerPoint 2007 file and expand it to full screen, the content share control bar is covered by the RealPresence Desktop application.	To display the content control bar, minimize or restore the screen.

Description	Solution
In a motion mode conference, RealPresence Desktop receives video with a large delay because the video is 60 fps.	Set a conference with sharpness mode on the MCU.

Description	Solution
If you create a Continuous Presence (CP) only conference call on RealPresence Collaboration Server (RMX) 4000/2000 and Poly RealPresence Collaboration Server 800s 8.1 with default content settings (Content Settings set to HiResGraphics and Content Protocol set to H.264 HD), the RealPresence Desktop application can't send or receive content if the call rate is set to 384 Kbps or below.	<p>In this case, you need to do the following:</p> <ul style="list-style-type: none"> Change the RealPresence Collaboration Server (RMX) Content Settings to Graphics, and Content Protocol to H.263 & H.264 Auto Selection. Set the call rate on RealPresence Desktop to above 384 Kbps.
RealPresence Desktop supports using only English user names and passwords to sign in to the Poly CMA server and RealPresence Resource Manager, or to register to a gatekeeper or an SIP server.	Use English user names and passwords.
If you use an MPM+ media card in a call with a RealPresence Collaboration Server (RMX) system, a blue edge displays at the bottom of the video window.	Use only an MPMx media card with the RealPresence Collaboration Server (RMX) system.
When RealPresence Desktop and m100 aren't in the same local network, RealPresence Desktop fails to call m100.	Let m100 call RealPresence Desktop.
When you enable mutual TLS (Transport Layer Security) from RealPresence Resource Manager, RealPresence Desktop fails to upgrade from RealPresence Resource Manager.	Disable mutual TLS.
With NoiseBlock on, when a participant speaks after a long period of silence, the participant's first syllables may not be heard.	None.
In some MCU conference templates, the virtual business card is truncated.	None.
RealPresence Desktop SIP call transfers by VVX phones may fail when the endpoints aren't registered with a RealPresence DMA system.	Register the endpoints.

System Capabilities and Constraints

The following protocols, resolutions, algorithms, and ports are supported for RealPresence Desktop.

Protocols

The following table lists the supported protocols.

Protocol	Description
DNS	Domain Name System
H.235	Security and Encryption
H.239	Token Management

Protocol	Description
H.281	Far end Camera Control (FECC)
H.323	Signaling
H.460	Firewall/NAT Traversal
LDAP, H.350	Directory Services
NTLMv2	Authentication
Poly Lost Packet Recovery (LPR)	Lost Packet Recovery
SIP	Session Initiation Protocol
XMPP	The Extensible Messaging and Presence Protocol

Resolutions

The following table lists the supported resolutions.

Resolution and Frame Rate	Source
Up to 720p / 30 fps	Video sent from camera
Up to 1080p / 30 fps	Video received from far end
Up to 1080p / 5 fps	Content showing from the computer
Up to 1080p / 15 fps	Content received from far end

Algorithms

The following table lists the supported algorithms.

Algorithm Type	Description
Audio	<p>G.711μ or G.711A</p> <p>SirenLPR at 24 Kbps, 32 Kbps, 48 Kbps, and 64 Kbps</p> <p>G.722.1 at 16 Kbps, 24 Kbps, and 32 Kbps</p> <p>G.722.1 Annex C at 24 Kbps, 32 Kbps, and 48 Kbps G.719 at 32 Kbps, 48 Kbps, 64 Kbps</p> <p>G.729 G.728 SAC</p> <p>Automatic gain control Acoustic echo cancellation</p>

Algorithm Type	Description
Video	H.261 H.263/H.263+ H.264 AVC H.264 SVC H.264 high profile Content over H.264/H.263/H.263+ Video Poly Lost Packet Recovery (LPR) QoS technology
Encryption	AES-128 media encryption TLS/SRTP supported in SIP calls

Inbound and Outbound Ports

The following tables list the supported inbound and outbound ports.

Ports	Function
1720 (TCP)	H.323 Call Signaling (H.225)
1719 (UDP)	H.323 Registration, Admission, and Status (RAS)
3230 – 3250 (TCP)	H.323 Call Control (H.245)
3230 – 3250 (UDP)	Media (RTP/RTCP)
3238 (UDP and TCP)	BFCP
5060 (UPD and TCP)	SIP

Ports	Function
443 (TCP)	Provisioning, Monitoring, Help Files, HTTPS
389 (TCP)	LDAP
5060 (UDP and TCP)	SIP
5061 (TCP)	SIP TLS signaling
5222 (TCP)	XMPP
1720 (TCP)	H.323 Signaling (H.225)
1719 (UDP)	H.323 Registration, Admission, and Status (RAS)
3230 – 3250 (TCP)	H.323 Call Control (H.245)
3230 – 3250 (UDP)	Media (RTP/RTCP)
3238 (UDP and TCP)	BFCP

About Full Duplex Echo Cancellation

Sometimes, RealPresence Desktop may not provide full duplex echo cancellation. To enable full duplex echo cancellation, your laptop needs to satisfy the following requirements:

- The audio clocks of microphone and speaker must synchronize.
- No caustic coupling exists between the microphone and speaker.
- No nonlinear process in the handling of the microphone and speaker data.

Unfortunately, many laptop microphones and speakers don't meet the above requirements, which makes full duplex audio difficult. Additionally, USB microphones normally contain their own audio clock, making synchronization difficult.

To get the optimum audio experience, Poly recommends you to use the Poly room systems instead.

Resolved Issues

This release includes the following resolved issues.

Resolved Issues

Issue ID	Description
ECS-1861 / EN-242958	Poly RealPresence Desktop keeps on ringing and unable to connect to the VMR.
ECS-2968 / EN-242960	Poly RealPresence Desktop fails at start up.
ECS-3239 / EN-242961	Poly RealPresence Desktop couldn't search some duplicate user.
ECS-2335 / EN-242074	Poly RealPresence Desktop self-view frame didn't show after stopping content sharing
ECS-2618 / EN-242748	Time in call keeps showing 00.00.00 on Poly RealPresence Desktop while audio video is normal.
ECS-2898 / EN-242017	Poly RealPresence Desktop could not sign-in to Clariti Manager
ECS-1886 / EN-241427 ECS-2492 / EN-241434	Poly RealPresence Desktop Error connecting to LDAP server is displayed.
ECS-2724 / EN-241435	LDAP query for Contacts fails with the error "Connection to LDAP Server failed due to a network error"
ECS-1440 / EN-241433	Poly RealPresence Desktop suddenly terminate disconnect USB cable between with Studio X70 during connected as device mode.
ECS-2303 / EN-241429	Poly RealPresence Desktop connected to RMX conference via VMR does not display any people video.

Issue ID	Description
ECS-1807 / EN-241432	Poly RealPresence Desktop connected to Studio USB fails when disconnect USB cable or disconnect USB cable

Known Issues

This section identifies the known issues in this release.

IMPORTANT: These release notes do not provide a complete listing of all known issues for the software. Issues not expected to significantly impact customers with standard voice and video conferencing environments may not be included. In addition, the information in these release notes is provided as-is at the time of release and is subject to change without notice.

Issue ID	Description	Workaround
EN-129145	When SMB 2.0 is enabled on both RealPresence Resource Manager and the AD server, RealPresence	Set SmbServerNameHardeningLevel to 0.
EN-156888	Desktop may fail to connect to RealPresence Resource Manager if SmbServerNameHardeningLevel is not set to 0 on the AD server.	None.
EN-157392	In RealPresence Desktop for Windows, the navigation menu options do not work for Move and Size.	None.
EN-127032	RealPresence Desktop users that use special characters such as ~ and £ in their passwords can't sign in to a Polycom Arity Manager system.	None.
EN-144570	Sometimes the RealPresence Desktop vCard is empty during a conference and in the profile.	None.
EN-165936	When using RealPresence Desktop, Auto-Answer sometimes doesn't work on incoming calls from non-RealPresence Desktop endpoints.	None.
EN-164444	Calls between RealPresence Group 500 systems running software version 6.2.2 and RealPresence Desktop 3.10 sometimes have lip sync and audio dropout issues.	None.
EN-169889	When you use a Logitech Meetup USB camera as your video input, RealPresence Desktop (version 3.10 and higher) video quality is lower than expected.	None.
EN-171131	When RealPresence Desktop is in the provisioning mode, it can't call in to Zoom conferences. The prompt shows Please enable encryption option on your room system.	None.

Issue ID	Description	Workaround
EN-176515	Sometimes, RealPresence Desktop can't receive new content after a content sender stops content and sends it again.	None.
EN-176541	RealPresence Desktop user search is case-sensitive. You can find users in the address book, but they don't display as search results. This issue applies to both local and Access Directory users.	None.
EN-207836	While logging in to RealPresence Desktop with AD user credentials, if you input a wrong password, RealPresence Desktop sends error message Invalid server address. The error message isn't accurate.	None.
EN-238934	If you place a call using the video protocol H.264, RealPresence Desktop shows H.264SVCHigh as the video protocol in Call Statistics.	None. This is a known display issue. For H.323 calls, video protocol is H.264 or H.264High, depending on your H.264 High Profile setting.

Known Limitations

This section identifies the known limitations in this release when running in the specified environment.

Issue ID	Description	Workaround
EN-162035	Poly Clariti Manager Enterprise Sign-in from RealPresence Desktop doesn't check for a valid IP format in the Server field.	None.
EN-165915	Logging in to Poly Clariti Manager from RealPresence Desktop Enterprise fails when using Cyrillic or Chinese names.	None.
EN-59873	You can't manually upgrade your RealPresence Desktop to a version later than 3.9 in the following situations:	Install the later version using the.msi file.
EN-144583	You installed RealPresence Desktop 3.9 using the.msi file.	None.
EN-143170	Your computer administrator upgraded RealPresence Desktop to 3.9 using RealPresence Resource Manager.	None.
EN-171112	RealPresence Desktop 3.10.3 intermittently fails to display content sent from RealPresence Collaboration Server in encrypted SIP calls.	None.
EN-175749	When the Outlook user interface is in Russian, RealPresence Desktop's Outlook meeting invitation fails to include the meeting ID prefix in the Join button link.	None.
EN-177679	RealPresence Desktop can't send DTMF out-of-band in H.323 calls. However, this feature is available in SIP calls.	None.

Issue ID	Description	Workaround
EN-188102	Due to resolution limitations, RealPresence Desktop may not start up on a two-monitor system if its default monitor is in portrait mode.	None.

Known Limitations for Windows 10

This section identifies the known limitations in this release when running in a Microsoft Windows 10 environment.

Issue ID	Description	Workaround
EN-63023	Due to Windows default settings, if you installed the consumer version of Microsoft Skype, selecting a callto: or sip: URL always launches the Skype application instead of RealPresence Desktop.	Do one of the following: <ul style="list-style-type: none"> Launch RealPresence Desktop and dial your call manually. Uninstall the consumer version of Microsoft Skype..
SWEP-8227	Logging in to Poly Clariti Manager from RealPresence Desktop Enterprise fails when using Cyrillic or Chinese names.	None.
SWEP-7802	When you share Microsoft Edge content, the application icon doesn't appear on the left of the application name in the Share Application section.	None

Enterprise Scalable Video Coding (SVC) Mode

The Enterprise Scalable Video Coding (SVC) mode is an alternative to the AVC mode that has traditionally been supported. Differences between the two modes are listed in the following table.

SVC Mode	AVC Mode
Each participant in the conference call is received by the client as a separate video stream.	The composite video image is determined by the bridge based on administrator configuration.
A Caller ID is indicated by text in the appropriate window, which remains on display throughout the call.	Caller ID information is displayed intermittently.
Double-clicking or tapping on a participant's video, content video, or local preview expands that video to full screen. Double-clicking or tapping again reverts the display to the composite image.	Layout may be controlled by dialing ** and then selecting a format. Double-clicking or tapping on the remote video, content video, or local preview expands that video to full screen. Double-clicking or tapping again reverts the display to the composite image.

SVC mode provides the following features:

- Video sends and receives up to 720p resolution.
- Frame rates of 7.5/15/30
- Support for AVC content
- Support for SVC auto layouts for video streams of up to nine far-end participants Last active speakers, resolution, bandwidth, and number of participants are adjusted based on network bandwidth and processor capabilities.

When using SIP UDP in an SVC call and there's more than 10 percent Packet Loss, the screen layout may display incorrectly. Changing to SIP TLS or TCP is recommended.

- Supported layouts of 1×1 and 1+1 through 1+10

The maximum layout of 1+10 comprises nine remote participants plus one content sharing frame, and one local preview frame


- Support for SAC with at least two quality layers, for example, 48 Kbps and 10 Kbps
- Support for mixing up to three different audio streams from the MCU
- Support for combining up to nine different SVC video streams (call rate at 1920 Kbps) from the MCUs

SVC conference calls currently do not support the following:

- Far-end Camera Control (FECC)
- Recording with RealPresence Capture Server
- H.323 calls

In a poor network connection, sometimes a participant disconnects automatically from an SVC call. This can result in a frozen video stream of the participant. The RealPresence Collaboration Server (RMX) system will clear the frozen stream in 30 minutes..

Access Media Statistics

To access media statistics, select Statistics  on the in-call toolbar during a call.

Value	Description
Call Type	SIP or H.323 call type.
Call Encryption	Indicates whether your call is encrypted.
Far Site Name	Name of the far site.
Far Site System	Type of video conferencing system at the far end and the software version.
Call Speed	Negotiated speed (bandwidth) for the call, which is usually the combined video and audio speeds in the call.
Video Protocol	ITU-C video algorithm and annexes used in the current call. The video protocol used depends on the capabilities of the system at the far end as well as on your system's configuration.

Value	Description
Video Format	Picture size currently in use.
Audio Protocol	Audio algorithm and annexes used in the current call. The audio protocol used depends on the capabilities of the system at the far end as well as on your system's configuration.
Audio Rate	Bandwidth specified for the audio portion of the call. The proportion of the audio rate to the video rate depends on the protocol used.
Video Rate	Bandwidth specified for the video portion of the call. The proportion of the video rate to the audio rate depends on the protocol used.
Video Rate Used	Actual bandwidth being used for the video portion of the call. This is a real-time measurement, which normally fluctuates.
Video frame rate	Rate your system uses to update the picture seen at the far end. The system can send up to 15 frames per second. If the camera picks up large, continuous, or frequent motions, the software takes longer to assemble the data into video frames, and the frame rate drops. Changes in lighting also reduce the frame rate.
Video Packets Loss Percentage	Total video packet loss as a percentage of the total number of video packets transmitted by your system and those transmitted by the far end.
Video Jitter	Percentage of variation in the video transmission rate.
Audio Packet Lost	Number of audio data packets lost during the call, including transmitted packets and incoming packets. Packet loss indicates congestion or other problems on the network.
Audio Packets Loss Percentage	Total audio packet loss as a percentage of the total number of audio packets transmitted by your system and those transmitted by the far end.
Audio Jitter	Percentage of variation in the audio transmission rate.
Content Protocol	Format used for the recording, compression, and distribution of the content.
Content Format	Display resolution of the content.
Content Rate	Rate your system uses in content transmission.
Content Rate Used	Actual bandwidth being used for the content transmission.
Content Frame Rate	Rate your system uses in content frame transmission.
Content Packets Lost	Number of content data packets lost during the call, including transmitted packets and incoming packets. Packet loss indicates congestion or other problems on the network.
Content Packets Loss Percentage	Total audio packet loss as a percentage of the total number of content packets transmitted by your system and those transmitted by the far end.

About AES Encryption

The following are requirements for using AES encryption in calls.

AES Encryption in H.323 Calls

To use AES encryption in H.323 calls, both you and the far end must satisfy the following requirements:

- Enable AES encryption.

When working in the managed mode, the AES encryption of the RealPresence Desktop application is configurable through its provisioning server.

When working in the standalone mode, the AES encryption of the RealPresence Desktop application works as “When available” and isn’t guaranteed.

- Both you and your far end must support, or be compatible with, the same Key exchange and encryption method (H.235v3 w, or AES 128bit CBC).

AES Encryption in SIP Calls

To use AES encryption in SIP calls, both you and the far end must satisfy the following requirements:

- Enable AES encryption
- Enable TLS for SIP transport
- Support for SDES over TLS key exchange
- Support for AES 128-bit CBC mode over SRTP

When working in the managed mode, the AES encryption of the RealPresence Desktop application is configurable through its provisioning server.

When working in the standalone mode, the AES encryption of the RealPresence Desktop application works as “When available” and isn’t guaranteed.

Preparing Your Device for Mutual Transport Layer Security

You can establish secure communications using Mutual Transport Layer Security (MTLS) with provisioning servers such as Poly RealPresence DMA, CMA, or Poly Clariti Manager systems.

To establish MTLS connections, the client and server need to hold certificates issued from the same Certificate Authority (CA) and the root certificate of this CA.

Generate and Import Your Certificate

To import certificates, you must generate a Certificate Request (CSR) first by using a computer that has installed the OpenSSL tool.

To generate and import your certificate on a PC:

1. Make sure you have OpenSSL installed and configured.
2. Open the CMD console window from your PC.
3. Generate the private key client.key. For example: C:\OpenSSL-Win32\bin> openssl genrsa -out client.key 1024
4. Generate the certificate request client.csr. For example:
C:\OpenSSL-Win32\bin> openssl req -new -key client.key -out client.csr For som—
Country Name (2 letter code) [GB]:cn —CSR info.
State or Province Name (full name) [Berkshire]:bj —CSR info. Locality Name (eg, city) [Newbury]:bj —CSR info.
Organization Name (eg, company) [My Company Ltd]:plcm —CSR info. Organizational Unit Name (eg, section) []:caqa —CSR info.
Common Name (eg, your name or your server’s hostname) []:caqa —CSR info. Email Address []:pp@pp.com —CSR info.
5. Enter the following extra attributes to be sent with your certificate request. Write down the challenge password. You will need it later in the procedure. A challenge password []:1234 —see [Note1] An optional company name []:poly

6. Submit the certificate request to your CA:

- a View the content of the file client.csr using the following command: Select and copy its content (from — BEGIN CERTIFICATE REQUEST to END CERTIFICATE REQUEST—): C:\OpenSSL-Win32\bin> type client.csr
- b Go to your CA's web interface <http://<CA's IP address>/certsrv/>, and then choose Request a certificate.
- c Select Advanced certificate request.
- d Select Submit a certificate request by using a base-64-encoded CMC or PKCS #10 file, or Submit a renewal request by using a base-64-encoded PKCS #7 file.
- e Paste the content of the file client.csr to the text field in the Saved Request text field, and select.
- f ● Choose Base 64 encoded and select Download certificate.

The file is saved as certnew.cer by default in the Downloads folder.

7. Move the generated certnew.cer file to your current directory.

8. Convert the file ccertnew.cer to a .p12 file by using the OpenSSL tool. The export password should be the same as the challenge password you set in Step 4. For example:

```
C:\OpenSSL-Win32\bin> openssl pkcs12 -export -in certnew.cer -in key client.key -out client.p12 -name testp12
```

Enter Export Password:

Verifying – Enter Export Password:

9. Encrypt the challenge password you set in Step 4:

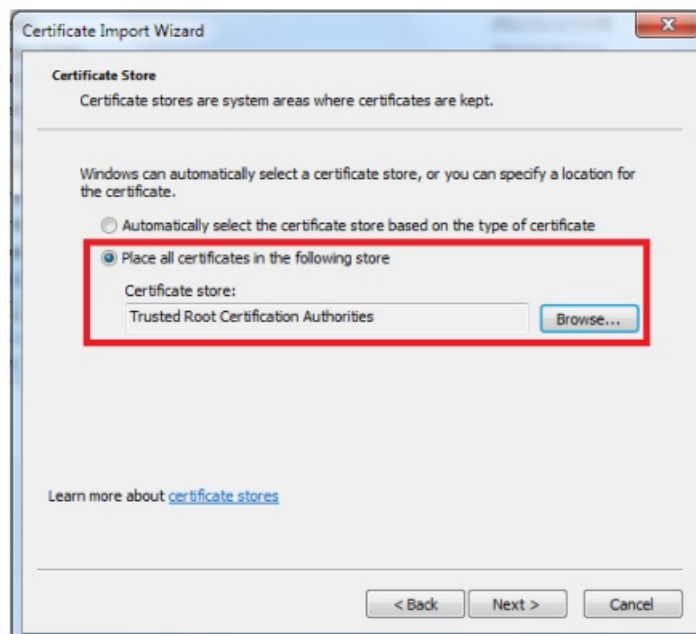
1. a Go to Convert String.
2. b Enter the challenge password in the text field, and select Base64 Encode!.
3. c Copy the encoded text from the following text field, and save it as a .pwd file. For example: client.pwd.

10. Open the RealPresence Desktop application data folder %appdata%\RealPresence Desktop\, and then copy the files client.p12 and client.pwd to the folder

Import the Root Certificate of Your CA

To establish MTLS connections, the client and server must also hold the root certificate of your CA. To import the root certificate of your CA:

1. Go to your CA's web address <http://<CA's IP address>/certsrv/>, select Download a CA certificate, certificate chain, or CRL.
2. Select Base 64, and select Download CA Certificate.
3. Right-click the CA file, and select Install Certificate.
4. Follow the Certificate Import Wizard. Be sure to install it to Trusted Root Certificate Authorities.



About Section 508 Accessibility Standards

For information about how RealPresence Desktop conforms to the Section 508 and Section 255 accessibility standards, see Voluntary Product Accessibility Template Reports.

Get Help

For more information about installing, configuring, and administering Poly products or services, go to Poly Support.

Privacy Policy

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Documents / Resources

	<p>poly 3.11.9 RealPresence Desktop for Windows [pdf] User Guide</p> <p>3.11.9 RealPresence Desktop for Windows, 3.11.9, RealPresence Desktop for Windows, Desktop for Windows, Windows</p>
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References

-  [Microsoft – Cloud, Computers, Apps & Gaming](#)
-  [Privacy Policy | Poly, formerly Plantronics & Polycom](#)
-  [Support | Poly, formerly Plantronics & Polycom](#)
-  [Security Center | Poly, formerly Plantronics & Polycom](#)

