Release Notes

LifeSize Video Communications Systems

Release: v4.1.1

Contents

Product Documentation

The following documentation is available in this release. For the most current version of product documentation, refer to the Support page of www.lifesize.com.

Document	Description
Installation Guide	Describes how to install and complete an initial configuration of your LifeSize video communications system. Use with the Quick Reference Card included in the product box.
Administrator Guide	Describes advanced configuration settings and how to administer your LifeSize video communications system.
User Guide	Describes common usage and troubleshooting for your LifeSize video communications system.
Quick Reference Card	Provides a visual depiction of the proper installation of all cables and components. Included in the product box.
LifeSize Communications End User License Agreement	Use of LifeSize equipment and software components are governed by the conditions and terms of the LifeSize Communications End User License Agreement.
LifeSize Third Party Licenses	Lists third party licenses applicable to this release.
LifeSize Safety and Regulatory Notices	Describes safety guidelines and regulatory notices for the LifeSize hardware.
Release Notes	This document, which describes new features and known issues in the current release and any available workarounds.
LifeSize Automation Command Line Interface	Provides a command line-based entry point for automating access and control of LifeSize video communications systems.

Prerequisites

If you are upgrading an existing LifeSize system, or if you need to downgrade after upgrading to this release, ensure that you meet the following prerequisites before performing the upgrade or downgrade.

Upgrading from a Previous Release

If you are upgrading from an existing release, ensure that all LifeSize cameras and adapters you intend to use are connected to your LifeSize system before you perform the upgrade. Cameras and adapters not connected before you perform the upgrade do not function properly if connected to the system after the upgrade.

If you are upgrading from a release earlier than v4.0.0, you must upgrade to v4.0.0 before upgrading to this release. Software release v4.0.0 implements upgrade license keys to ensure that a current maintenance agreement is in effect when upgrading the software on a LifeSize video communications system. If you are upgrading from software release v4.0.0 or later, ensure that a current license key exists on the system before performing the upgrade. The expiration date for the license key appears on the **System Information** page in **Upgrade License**.

Audio levels for the active microphone volume and line in volume preferences are recalibrated in this release (v4.1.1). If you are upgrading from a previous release, LifeSize recommends that you check these levels after performing the upgrade.

Downgrading from this Release

If you downgrade from this release, ensure that all LifeSize cameras and adapters that were connected to your LifeSize system during the upgrade to this release are connected to your LifeSize system before you perform the downgrade.

New Features and Resolved Issues

Following are the major new features and resolved issues in this release. Refer to your LifeSize product documentation for more information about using the product. Numbers in parentheses following a summary are used for internal tracking purposes only.

Feature	Description
New Features or Enhancements:	
Support for LifeSize Express 200	This release includes support for LifeSize Express 200.
Call management enhancements (END-9070)	Call management for H.323 calls is enhanced in this release through a new mechanism that monitors system CPU usage. As participants join or leave a conference call, if CPU usage thresholds that are associated with resource congestion are exceeded, (for example, a multiway call placed at an unsupportable bandwidth), the system renegotiates the call bandwidth.

Feature	Description

SIP enhancements
(END-10204) (END-8800)
(END-10175) (END-10543)
(END-10395)
	SIP dual video (LifeSize only):
	In this release, LifeSize participants in a SIP call can view both primary and presentation video simultaneously. In previous releases presentation video during a SIP call was sent as the primary input. This feature is available only between LifeSize systems in a SIP call. For more information about limitations with this feature, see Product Limitations on page 10.
	
	SDES Key Exchange
	This release includes support for the SDES key exchange method in SIP secure calls.
	
	Microsoft Office Communications Server interoperability:
	• ***Presence states***—In this release, LifeSize systems publish the following presence states to Microsoft Office Communications Server:
	  ○ Available
	  ○ Busy
	  ○ In a Call
	  ○ Offline
	• ***New SIP Server Type preference***—To resolve issues in processing calls through Microsoft Office Communications Server, LifeSize recommends that administrators choose *Microsoft OCS* for the new **SIP Server Type** preference in **Administrator Preferences : Communications : SIP**. The default is *Auto*.

Audio level meters enhancement (END-9176) (END-8694)	Audio level meters for adjusting the active microphone volume and line in volume preferences include a decibel (dB) scale in this release. The meters are calibrated in decibels below full digital scale on the transmitted voice. The maximum level is 0 dB. Audio levels for the active microphone volume and line in volume preferences are recalibrated in this release. If you are upgrading from a previous release, LifeSize recommends that you check these levels after performing the upgrade. For more information about using these audio meters refer to the technical note *Configuring LifeSize Audio Meters* available from the Support page of www.lifesize.com.

Feature	Description
Camera exposure control enhancements for LifeSize Camera 200 (END10674)	This release includes new options for controlling exposure with LifeSize Camera 200. Users and administrators can choose the method that auto exposure uses to average video image brightness, or disable auto exposure by selecting an option for the new **HD Camera Auto Exposure** preference in **User Preferences** or **Administrator Preferences : Diagnostics : High Definition Camera**. This preference is available only on LifeSize system models that support LifeSize Camera 200. The default option, *Full-frame*, adjusts exposure based on the average brightness of a full frame of video. The *Center-weighted* option adjusts exposure based on the average brightness of a full frame of video, but with a higher weight assigned to the center area of the frame. The *Spot* option adjusts exposure based on the average brightness of a small area in the center of the frame. The *Manual* option disables auto exposure. You can affect auto exposure or adjust exposure manually when auto-exposure is disabled by adjusting the amount of light received through the camera lens using the **HD Camera Brightness** preference in **User Preferences** or **Administrator Preferences : Diagnostics : High Definition Camera**. With the introduction of this new preference for LifeSize Camera 200, the `exposure`, `exposure-gain`, and `exposure-itime` targets in the LifeSize Automation Command Line Interface (CLI) apply only to LifeSize Camera and LifeSize Focus in this release. For more information about new, revised, and deprecated commands, objects, targets, and arguments in the CLI, refer to the *LifeSize Automation Command Line Interface for LifeSize Video Communications Systems* available from the Support page of www.lifesize.com.
Additional screen layouts for 3- and 4-way calls (END-9966)	This release includes new screen layouts that enable users in a 3- or 4-way video call to choose a far end participant to show as the largest video image regardless of who is speaking in the call. Screen layouts in which video from far end participants does not change position show only the layout number in the status bar when the user interface is visible (for example 8/8). Screen layouts in which video images of far end participants change position when far end participants speak, appear with the dominant speaker icon next to the layout number in the status bar, for example: 6/8  The new layouts are intended for 3- and 4-way calls only. On LifeSize systems that support more than four video participants in a call, video from one of the far end participants not shown on screen in a 5- or 6-way call may replace the largest video image in these new layouts when that participant becomes the dominant speaker. For more information about screen layouts, refer to the technical note *LifeSize Video Communications Systems Screen Layouts*, which is available from the Support page of www.lifesize.com.

Feature	Description
Disable user access to the local directory (END-10038) (END-10590)	Administrators can disable user access to the local directory by setting the new **Local Directory** preference to *Disabled* in **Administrator Preferences : Directory : General**. Disabling access to the local directory also disables the following: • saving entries from the **REDIAL** list to the local directory • copying corporate directory entries to the local directory • selecting entries from the local directory when creating a meeting entry in the meetings directory. Administrators maintain access to the local directory on the web administration interface **Directory** page when the **Local Directory** preference is set to *Disabled*.
DVI-I and VGA input brightness and contrast settings persist (END-10341)	In previous software releases, the brightness and contrast settings for the VGA and DVI-I inputs on LifeSize systems reset to the default value after a system reboots or when a new device is connected to the input. In this release the brightness and contrast settings persist after a system reboot and when a new device is connected to the input.
Support for AMX Dynamic Device Discovery through IP connectivity (END-10202)	This release includes support for AMX Dynamic Device Discovery through IP connectivity. Administrators can enable this feature from the LifeSize Automation Command Line Interface. For more information, refer to *LifeSize Automation Command Line Interface for LifeSize Video Communications Systems* available from the Support page of www.lifesize.com.
802.1X support (END-6922) (END-9204) (END-10082)	LifeSize video communications systems support port-based mutual authentication based on the IEEE 802.1X standard using the EAP-TLS sub-protocol. The IEEE 802.1X standard provides port-based authentication that involves communications between a supplicant, an authenticator, and an authentication server. For more information about configuring your LifeSize system and environment to use this feature, see the *LifeSize Automation Command Line Interface for Software Release v4.1.1* available from the Support page of www.lifesize.com.
Revisions to the command line interface	This release includes new, revised, and deprecated commands, objects, targets, and arguments in the LifeSize Automation Command Line Interface (CLI). For more information, refer to the *LifeSize Automation Command Line Interface for LifeSize Video Communications Systems* available from the Support page of www.lifesize.com.
New preference in the web administration interface to disable incoming voice calls over ISDN with LifeSize Networker connected to the codec. (END-10593)	Administrators can set the new **Incoming Voice Calls** preference in the web administration interface at **Preferences : Communications : LifeSize Networker : General** to *Disabled* to disable incoming voice calls over ISDN when LifeSize Networker is connected to the codec. The default is *Enabled*. For this preference to function correctly, you must be using software release v3.1.0 for LifeSize Networker.
Resolved Issues:	
Presentation video sent to Sony PCS-G70 from a LifeSize system is blurry. (END-6437)	In software release v3.0 and v4.0, presentation video sent from a LifeSize system appears blurry in the display of a Sony PCS-G70 participant in the call. This issue is corrected in this release.

Feature	Description
Secondary display connected to LifeSize Room 200 not showing video from PC connected to the DVI-I input when system is idle. (END-10735)	In software release 4.0, video from a PC connected to the DVI-I input on LifeSize Room 200 does not appear in the second display when the system is idle and the secondary display is configured to show DVI-I input and presentation. This issue is corrected in this release.
H.263 encoded presentation video not sent if the resolution is smaller than the far end supports. (END-10417) (END-11030)	In previous releases, if a LifeSize system attempts to send H.263 encoded video as an H.239 presentation with an input resolution that is smaller than the far end supports, the presentation is not sent. In this release, the presentation video is scaled up to a resolution supported by the far end. This fix applies only to LifeSize Room 200, LifeSize Team 200, LifeSize Express, and LifeSize Express 200, and only if the smallest resolution supported by the far end does not exceed the maximum presentation input resolution supported by the LifeSize system. For more information about supported VGA and DVI-I input resolutions, refer to the Product Limitations section on page 10.
Incorrect model name appears for LifeSize Room 200 and LifeSize Team 200 in statistics screen and web administration Call Manager. (END-7543)	In software release v4.0, the 200 designation in the model name for LifeSize Room 200 and LifeSize Team 200 is missing when these names appear at the bottom of the statistics screen in the user interface and in the title bar of a call window in the **Call Manager** in the web administration interface during a call. This issue is corrected in this release.
Specifying # character as the first number when placing a call defaults to ISDN. (END-11085)	In software release v4.0, LifeSize systems attempt to place a call first as an ISDN call if the # symbol is entered as the first character in the number, regardless of the options chosen for the **Voice Dialing** and **Video Dialing** preferences. In this release, a LifeSize system attempts to place a call first as an ISDN call when the # symbol is entered as the first character only if LifeSize Networker is configured for use with the LifeSize system.
Change in default for **Multiway Calls** preference on LifeSize Express. (END-11206)	In software release v4.0.0, the default for the **Multiway Calls** preference in **Administrator Preferences : Communications : General** was set to *Disabled* on LifeSize Express. In this release the default is *Enabled* on all system models.
Audio from LifeSize Room 200 and LifeSize Team 200 not heard by far end participants during a call. (END-9788)	This release includes a fix for LifeSize Room 200 and LifeSize Team 200 to address an issue that results in audio transmitted from these systems to not be heard by far end participants during a call.
Incoming voice calls received through LifeSize Networker output to option chosen for the **Video Call Audio Output** preference instead of the **Voice Call Audio Output** preference. (END-10402)	In software release v4.0, incoming voice calls received through LifeSize Networker output to the option chosen for the **Video Call Audio Output** preference instead of the **Voice Call Audio Output** preference. This issue is corrected in this release. The voice outputs to the option chosen for the **Voice Call Audio Output** preference.
Preset 0 does not function properly after zooming a LifeSize Camera connected to LifeSize Express when **Digital Zoom** is *Disabled*. (END-10149)	In software release v4.0, camera preset 0 does not return a LifeSize Camera connected to LifeSize Express to the default position after you zoom the camera if the **Digital Zoom** preference is set to *Disabled* (the default). This issue is corrected in this release.

Feature	Description
Video freezes and call is dropped after presentation started from LifeSize Room 200 in call with Polycom ViaVideo PVX (END-10281)	With software release v4.0, after a presentation starts from LifeSize Room 200 during a call with a Polycom ViaVideo PVX system, the LifeSize system drops the call and reboots. This issue is corrected in this release.
System reported H.323 gatekeeper registration status as **Registered** or **Registering** after **H.323** preference set to *Disabled*. (END-9454)	In software release v4.0, a LifeSize system continues to report either **Registered** or **Registering** as its gatekeeper status after you set the **H.323** preference in **Administrator Preferences : Communications : H.323** to *Disabled*. This issue is corrected in this release.
System reports SIP registrar registration status as **Registered** or **Registering** after setting **SIP** preference to *Disabled*. (END-9454)	In software release v4.0, a LifeSize system continues to report either **Registered** or **Registering** as its registrar status after you set the **SIP** preference in **Administrator Preferences : Communications : SIP** to *Disabled*. This issue is corrected in this release.
Missing command line interface commands or arguments for system save and restore features. (END-9136)	In software release v4.0.0, the command line interface does not include support for several configurable preferences. Without this support, the settings for these preferences are not saved and restored when administrators use the system save and restore features. With the exception of support for the **Digital Zoom** preference and custom background colors configured for displays from the web administration interface, this issue is corrected in this release. For more information about limitations for system save and restore, refer to Known Issues and Workarounds on page 8. For more information about changes to the command line interface in this release, refer to the document *LifeSize Automation Command Line Interface* available from the Support page of www.lifesize.com.
Line in selected as the active microphone does not get saved when performing a system save. (END-9201)	In software release v4.0, setting the **Active Microphone** preference to *Line In* or *Line In (no AEC)* on LifeSize Express, LifeSize Team MP, and LifeSize Room codecs that have a microphone input on the codec is not saved and restored properly when you perform a system save and restore in the web administration interface. Setting the Active Microphone preference to *Line In 1*, *Line In 1 (no AEC)*, *Line In 2*, or *Line In 2 (no AEC)* on LifeSize Room 200 and LifeSize Team 200 is also not saved and restored properly. This issue is corrected in this release.
Far end LifeSize system with LifeSize Room or LifeSize Team MP as the MCU is unable to start a presentation in a 4-way or greater call or add a fourth caller if a presentation from a non-MCU participant is in progress. (END-8436) (END-8968) (END-9277)	In previous releases, in a 4-way or greater call with LifeSize Room or in a 4-way call with LifeSize Team MP as the MCU, only the MCU can start a presentation. If three participants are in the call and a presentation from a participant other than the MCU is in progress, a fourth participant cannot join the conference. These issues are corrected in this release: Participants other than the MCU in the call can start a presentation or join the call if a presentation from a participant other than the MCU is in progress.
PAL signal on auxiliary S-video output fails on LifeSize Room. (END-10573)	The PAL signal on the auxiliary S-video output on LifeSize Room fails in software release v4.0. This issue is corrected in this release.
Camera presets 10 to 19 using command line interface commands not functioning in v4.0 (END-10056)	In software release v4.0, camera presets 10-19 available through the command line interface do not move the camera when invoked. This issue is corrected in this release.

Feature	Description
Network QoS preferences in web administration interface force cursor to end of field. (END-10125)	In software release v4.0, Network QoS preferences in the web administration interface forced the cursor to the end of the value when an administrator attempted to edit a value by clicking in the box. This issue is corrected in this release.
Raking in video from VGA input appears when VGA Input Scaling set to 10% on LifeSize Room. (END-10622)	In software release v4.0, setting the **VGA Input Scaling** preference to 10% on a LifeSize Room system could result in white raking lines appearing in video from the VGA input. This issue is corrected in this release.

Known Issues and Workarounds

The following table lists known issues and their solutions or workarounds, if available. Numbers in parentheses following an issue are used for internal tracking purposes only.

Issue/Problem	Description/Workaround
LifeSize Room 200 supports 1920x1080p at 30Hz refresh rate. (END-11533)	LifeSize Room 200 supports a maximum resolution of 1920x1080p at a refresh rate of 30Hz. Choose *1920x1080i60* for the **Display Resolution** preference if your 1080p TV does not support 1080p at a refresh rate of 30Hz.
Three camera inputs show video in primary input and presentation input selection screens when four cameras are attached to LifeSize Room 200. (END-10375)	When four cameras are attached to LifeSize Room 200, the primary and presentation input selection screens may show video only from three of the cameras. Video from one of the LifeSize Camera 200 cameras connected to the HD inputs may appear black in the selection for this input on these screens. The video appears on screen when the device is selected.
Primary Audio Output Test preference not sending test tones from the web administration interface. (END-11029)	The **Primary Audio Output Test** preference in the web administration interface does not send test tones to the LifeSize system. To work around this issue, use the preference from the user interface that appears in the display connected to the system.
Digital Zoom preference setting and custom background colors for displays not saved and restored. (END-9148) (END-10979)	Support for saving and restoring the option selected for the **Digital Zoom** preference in **Administrator Preferences : Video : Video Control** and for custom background colors configured for displays through the web administration interface is not available in this release. To work around this limitation, check the selections for these preferences in the user or web administration interfaces after performing a system restore.
LifeSize v3.5.x with Flash Player v10 fails during upgrades. (END-9548)	LifeSize v3.5.x with Flash Player v10 fails during upgrades. If you are using Flash Player v10 with LifeSize v3.5.x, downgrade to Flash Player v9 before upgrading to LifeSize v4.x.
Missing or invalid hostname causes H.460 calls to fail. (END-9642)	An H.460 call fails if the LifeSize system does not have a valid hostname. Ensure that a valid hostname is configured for the **Hostname** preference in **Administrator Preferences : Network : General**.
LifeSize Room 200 not showing 1280x720 video full screen under certain conditions. (END-9679)	LifeSize Room 200 with the display resolution set to 1920x1080 does not show 1280x720 video full screen when the video is sent from a device connected to the DVI-I input, HD input 1, or HD input 2. To work around this issue, show the video from a device connected to the auxiliary video input.

Issue/Problem	Description/Workaround
IP address for H.460 server not recognized if H.460 enabled before registering with the gatekeeper. (END-9556)	A LifeSize system may fail to recognize the IP address in the **Gatekeeper IP Address 1** preference for the H.460 server if you enable the **H.460** preference before registering the system to the gatekeeper. To workaround this issue, navigate to **Administrator Preferences : Communications : H.323** and do the following: 1. Set the **Gatekeeper Mode** preference to *Manual*. 2. For the **Gatekeeper IP Address 1** and **Gatekeeper Port 1** preferences, enter the IP address and port number of the H.460 server that is configured in your environment. 3. Navigate to **Register** and click **OK**. 4. Choose *Enabled* for the **H.460** preference.
Mute button on third party microphone may not function properly. (END-8860)	The mute button on a third party microphone connected to the microphone input on a LifeSize codec may not function properly. For best results use a LifeSize MicPod when connecting a microphone to the microphone input.
Network changes may require a reboot to obtain new IP address. (END-9007)	A LifeSize system is unable to detect a change to its IP address if the change is due to a change in networks from a wiring closet or through software, such as a change to a router configuration. Reboot the LifeSize system after making this type of network change.
The **Register** button is available to re-register a system with the SIP server only after you make a change to a SIP preference. (END-9001)	The **Register** button in **Administrator Preferences : Communications : SIP** is available to re-register the system in the event SIP registration fails only after you make a change to a SIP preference. To re-register the system, do the following: 1) Choose *Disabled* for the **SIP Registrar** preference. 2) Navigate to the **Register** button and press **OK** on the remote control. 3) Return to the **SIP Registrar** preference and choose *Enabled*. 4) Return to the **Register** button and press **OK** on the remote control.
TFTP download of configuration file through DHCP option 157 uses port 5351. (END-8871)	If you configure a system using DHCP option 157 and specify a TFTP server as the source from which to obtain the configuration file, the system accepts the download through port 5351. Ensure that firewalls between the system and the TFTP server are configured to allow the download through this port. For more information about configuring a system using DHCP option 157, refer to the *LifeSize Video Communications Systems Administrator Guide*.
Packet loss statistics are not reported. (END-4297)	Packet loss statistics may be incorrect with any entity that does not send RTCP reports.
Add PSTN participant to a 5-way SIP call with LifeSize Room 200 through IP PBX system. (END-9486)	Adding a PSTN participant during a 5-way SIP call using the PSTN line connected to a LifeSize Room 200 system fails. To add the PSTN participant, place the call through an IP PBX system.
Certificate message always displays. (END-4515)	Internet Explorer 7 displays a certificate error message at the top of the LifeSize web administration interface at all times. You can safely disregard this message.

Product Limitations

The following table lists known limitations with this LifeSize product. Numbers in parentheses following an issue are used for internal tracking purposes only.

Feature	Support or Limitation
Analog phone line connection (PSTN RJ-11) on LifeSize codec is not supported in China.	Support for the analog phone line connection (PSTN RJ-11) on the back of the LifeSize codec is not available in China in this release. The analog phone line connection on LifeSize codecs shipped to China is blocked.
Web administration interface supported with Adobe Flash Player v9.0.115 or later.(END-7456)	This release supports the use of the web administration interface with Adobe Flash Player v9.0.115 or later.
User Guide and Administrator Guide documentation errata	The User Guide and Administrator Guide are not updated for this release. For a list of documentation errata that includes information about new or enhanced features associated with this release that are not reflected in these publications, and documentation errata for v4.0, refer to Documentation Errata on page 21.
Limitations with SIP dual video (END-10870)	Support for SIP dual video in this release is subject to the following limitations: • SIP dual video is available in calls between LifeSize systems only. • SIP dual video is not available in calls with bandwidth at 128 kb/s. In calls with bandwidth at 192 and 256 kb/s, the bandwidth for SIP dual video is 64 kb/s. In calls with bandwidth at 320 kb/s or greater, SIP dual video bandwidth is 128 kb/s. Adjusting bandwidth allocated to the presentation stream using the **Video Bandwidth Balance** preference has no effect. • SIP dual video is not available during a call if the **TLS Signaling** preference in **Administrator Preferences : Communications : SIP** is set to *Enabled*. • For interoperability limitations with SIP dual video and calls connected through third party devices, see Interoperability Limitations on page 17.
Presentations from a far end participant in an H.460 6-way call with LifeSize Room as the MCU may fail. (END-11376)	Presentations started from a far end participant in an H.460 6-way call with LifeSize Room as the MCU may fail and the MCU may reboot. Try the call again without a presentation or limit H.460 calls to four participants.
Dominant speaker icon and screen layouts not functioning properly with LifeSize Team MP as the MCU. (END-10445)	When LifeSize Team MP is the MCU in a call, the video image of the dominant speaker does not appear as the largest image and the dominant speaker icon does not move in screen layouts that support these features.
4-way call limit in a SIP call with LifeSize Room 200 in 1080p30 as the MCU (END-9862)	LifeSize Room 200 as the MCU and configured to use 1080p30 for the display resolution can connect to a maximum of three other participants in a SIP call. In a 4-way SIP call with this configuration, the MCU sends 720p video to the participants.
Component video not supported through the DVI-I input. (END-11201)	Support for component video on the DVI-I input is not available in this release.

Feature	Support or Limitation
Video image from another LifeSize participant who is not the MCU disappears during a presentation in a 4-way call with LifeSize Room or LifeSize Team MP as the MCU. (END-10426) (END-10430) (END-10425)	In this release, when a LifeSize system in a 4-way call connected to LifeSize Team MP or LifeSize Room as the MCU starts a presentation, the video from the fourth participant in the call is removed by the MCU to accommodate the presentation video. Connection information for that participant does not appear in the **Call Manager** or on the **Statistics** page. The video of that participant, depending on the screen layout chosen, may appear when that participant becomes the dominant speaker and replace the video of the earliest speaker.
H.263 encoded H.239 presentation video sent from LifeSize Room, LifeSize Team, and LifeSize Team MP. (END-11030) (END-10417)	LifeSize Room, LifeSize Team, and LifeSize Team MP systems do not send H.263 encoded H.239 presentation video if the input resolution of the presentation video is smaller than the minimum resolution supported by the far end.
Web administration interface does not resize in Windows version of the Safari web browser.	Resizing the web browser window for the web administration interface while using the Safari web browser for the Windows operating system does not always produce resized and repositioned page elements.
LifeSize systems disconnect a call from a Microsoft Office Communicator 2007 participant after the participant pauses the video. (END-8806)	LifeSize systems disconnect a call from a participant using Microsoft Office Communicator 2007 after the participant clicks the video pause button in the Conversation window. Support for pausing video is not included in this release.
Virtual multiway behavior not available to LifeSize participants with an earlier release during a 5- or 6-way call with LifeSize Room or LifeSize Room 200 as the MCU when participant is not the dominant speaker. (END-9489)	In a 5- or 6-way call with LifeSize Room or LifeSize Room 200 as the MCU with this release, virtual multiway is not available to any LifeSize participant with a software release earlier than 4.0.0 and who is not the dominant speaker. In this case, LifeSize participants can only control the MCU's camera; view only 3 screen layouts; see only one participant in the call statistics screen; and not see their near end video in the video sent from the MCU. When any of these participants become the dominant speaker, virtual multiway behavior is available.
Browsing for an upgrade file in the web administration interface ends active calls. (END-9833)	Active calls end when you click **Browse** from the **Maintenance** tab in the web administration interface to select an upgrade file.
USB port unsupported on LifeSize Room 200 and LifeSize Team 200	Support for the USB port on LifeSize Room 200 and LifeSize Team 200 is not included in this release.
Pulse option for Voice Dialing preference not available on LifeSize Room 200 and LifeSize Team 200. (END-8556)	Pulse dialing is not available as an option for the **Voice Dialing** preference in **Administrator Preferences : Communications : General** on LifeSize Room 200 and LifeSize Team 200. Pulse dialing is not supported on these models.
LifeSize Camera 200 supported on HD input only (END-9522)	This release supports LifeSize Camera 200 connected to a LifeSize codec HD input only (port labeled HD on LifeSize Express, LifeSize Room 200, and LifeSize Team 200). Support for LifeSize Camera 200 connected to the HD camera input labeled **LifeSize Camera Only** or **System Camera Only** is not available in this release.

Feature	Support or Limitation
Digital zoom support (END-9474)	Digital zoom is supported only with LifeSize Focus and LifeSize Camera connected to LifeSize Express, LifeSize Room 200, LifeSize Team 200, and LifeSize Express 200. Support for using digital zoom with LifeSize Camera 200 is not included in this release.
LifeSize Room 200 in a 2-way call with another LifeSize Room 200 with a different display resolution shows 1280x720 or slightly larger video at 30 f/s.(END-9626)	When a LifeSize Room 200 system with a display resolution set to 1920x1080i60 or 1920x1080p30 calls another LifeSize Room 200 system with a display resolution set to 1280x720p60 or 1280x768p60, the video resolution in the call is 1280x720 (or slightly larger) at 30 f/s.
Resolution sent is 720p30 if resolution of non-LifeSize input device connected to HD or component input does not match resolution set for display on LifeSize Room 200.(END-9625)	If a video input device other than a LifeSize camera connected to an HD input or component input on LifeSize Room 200 is sending video at a resolution that does not match the display resolution configured on the LifeSize system, video transmitted to the far side is 720p30. For best results, ensure that the display resolution selected in **Administrator Preferences : Appearance : Displays** matches the resolution on the input device.
Enabling stretch video has no effect on LifeSize Room 200 if display resolution is 1920x1080. (END-9438)	Setting the **Stretch Video** preference in **Administrator Preferences : Video : Video Control** to *Enabled* has no effect on a LifeSize Room 200 system if the resolution of either display connected to the system is set to 1920x1080.
A splitter or extension cable without a LifeSize MicPod connected to the microphone input is detected as a connected LifeSize MicPod. (END-8976)	A LifeSize system detects a splitter or extension cable without a LifeSize MicPod connected to the microphone input as a connected LifeSize MicPod. If the **Active Microphone** preference is set to *Microphone In* or *Auto* (the default) and this device is automatically selected as the active microphone, the No Active Microphone icon does not appear in the status bar and the **Active Microphone** field in the **System Information** page reports *Microphone In* as the active microphone. If you wish to disconnect a LifeSize MicPod connected to a system with a splitter or extension cable, disconnect the splitter or extension cable from the microphone input.
Transcoding limitations (END-10994) (END-10743)	In releases earlier than v4.0.0, a LifeSize system hosting a multiway video call could only encode and send one primary video stream to participants. Consequently, the resolution of the video was limited to the greatest common resolution of all devices in the call. When a device with lower resolution capabilities (either by design or due to network limitations) joined a call, video resolution degraded for all participants. LifeSize systems with software release v4.0.0 or later hosting a multiway video call can open a second primary video stream when a device with significantly different video capabilities joins an existing call. Support for this feature (transcoding) includes the following limitations: • Transcoding applies only to a second primary video stream. One of the primary video streams must be H.264. Both primary video streams cannot be H.263 or H.261. • On LifeSize Room and LifeSize Room 200, transcoding is supported with continuous presence calls only (**Multiway Call** preference set to *All Callers*). • In calls with LifeSize Room 200, if the resolution of the transcoded stream is less than one-third the resolution of the primary stream, both streams will be transmitted at standard definition resolutions.

Feature	Support or Limitation
Audio from the auxiliary audio input on LifeSize Room not heard when you adjust the volume. (END-9087)	You may not hear the audio when adjusting the audio volume for a device connected to the auxiliary audio input on LifeSize Room. To work around this issue, do the following: 1. Navigate to **Administrator Preferences : Audio**. Note the option selected for the **Auxiliary Audio Input Association** preference. 2. To hear audio from the auxiliary audio input, choose *Any Input* for the **Auxiliary Audio Input Association** preference. 3. Use the **Auxiliary Audio Input Volume** preference to adjust the volume. 4. Set **Auxiliary Audio Input Association** to the option that you noted in step 2.
Display Energy Saver preference (END-9089)	When set to *Enabled*, the **Display Energy Saver** preference in **Administrator Preferences : Appearance : Displays** turns off the signal that the LifeSize system sends to the display when the system goes to sleep. LifeSize recommends that you test this feature for compatibility with your displays before using it in your environment. Some displays may appear black when the signal from the system is no longer received, but not enter an energy saving state. Other displays may recognize the loss of the signal and show text indicating this state. This may result in the text image burning into the screen. Some displays may recognize the loss of the signal and power off, but then not wake up when the LifeSize system wakes up.
Caller ID support. (END-1201)	Caller ID of PSTN calls during call waiting is not supported.
VGA to S-Video or Composite cables are not supported. (END-4557)	4x3 aspect TV using SD inputs is not supported on either display.
Calling your own system. (END-1560)	Calling your own LifeSize system is not supported and results in infinite looping of windows in your display with a system that supports multiway video calls and a busy signal with a system that supports only a point to point video call. Calling a device multiple times in the same call produces a similar result and is not supported.
Close web browser and clear browser cache after upgrading or downgrading a LifeSize system. (END-3779)	To view and access all options in the web interface after upgrading or downgrading a LifeSize system, close your web browser, clear the browser cache, and then reopen your web browser.
Link from LifeSize Team or LifeSize Express LAN port to switch may fail when both devices set to auto negotiate speed. (END-6539)	The LAN port on a LifeSize Team, LifeSize Express, and LifeSize Express 200 codec may be unable to establish a link when you connect the codec to a switch and both devices are set to auto negotiate the speed. If this occurs, set the speed on the switch and the **Network Speed** preference on the codec to either 100 Mb/s (full duplex) or 10 Mb/s (full duplex).
UTF-8 text editor required for viewing or editing imported/exported directory data. (END-6444)	When importing and exporting the directory from the web administration interface, use a text editor that supports UTF-8 encoding to view or edit the data. Double-byte characters are not supported in directory entries imported with the web administration interface.

Feature	Support or Limitation
Calls placed from the web administration interface Call Manager always appear in the Redial list with auto as the bandwidth and protocol. (END-6497)	Calls placed from the **Call Manager** in the web administration interface always appear on the **Redial** list with auto as the bandwidth and protocol, regardless of the actual bandwidth and protocol specified when the call was first placed.
Far end camera control with voice-activated switching of video. (END-6188)	Participants can only control the far end camera of the MCU and not the active talker when voice-activate switching of video is enabled on the MCU (**Multiway Call Layout** preference set to *Last Speaker*).
Call statistics show incorrect value for packet loss of transmitted video in IPv6 calls. (END-6127)	In calls with systems using IPv6 addresses, call statistics incorrectly show zero as the value of the packet loss for transmitted video.
Virtual multiway support with LifeSize participants.	Virtual multiway is available only to LifeSize participants during a call when a LifeSize system is the MCU. Non-MCU participants cannot hang up virtual calls. Virtual multiway is not supported during calls with voice activated switching of video (**Multiway Call Layout** preference set to *Last Speaker* on LifeSize Room or LifeSize Room 200).
Virtual multiway disabled below some resolutions. (END-5835)	If the LifeSize system serving as the MCU sends a 16:9 resolution below 544x304 or a 4:3 resolution below 352x288, virtual multiway is disabled. LifeSize participants see the video layouts of a 2-way call. If the resolution increases during the call, LifeSize participants automatically switch back to virtual multiway. This is typically encountered when the bandwidth of the call drops below 256 kb/s.
Virtual multiway only supported during H.264 video calls. (END-5701)	Virtual multiway is only supported during multiway video calls that use H.264. If the call switches from H.264 to H.263, the non-MCU systems revert back to a non-virtual multiway layout. The user sees the layouts available for a 2-way call. If the call switches back to H.264, the system automatically switches back to virtual multiway. This is typically encountered when a third-party device that only supports H.263 is added to the call.
AES Security supported with H.323 and H.460 calls only.	AES Security is supported with H.323 and H.460 calls only.
Call Manager polling in web administration interface.	Data that appears in the **Call Manager** in the web administration interface refreshes every five seconds rather than in real time.
Adjusting the **Video Bandwidth Balance** preference during a call has no effect. (END-5711)	Adjusting the **Video Bandwidth Balance** preference during a call has no effect. Adjust this preference before placing a call.
Voice-activated switching of video with LifeSize Room and LifeSize Room 200 as the MCU (END-9303) (END-9400)	You must enable voice-activated switching before placing or receiving the first call in the conference. To enable voice-activated switching of video, access **Administrator Preferences : Appearance : Layout** and set the **Multiway Call Layout** preference to *Last Speaker*. You cannot disable voice-activated switching during a call. LifeSize recommends that you keep the **Multiway Call Layout** preference set to *All Callers* when not using the system as the MCU in a call. Voice-activated switching is supported with H.323 and H.460 calls only.

<table>
<tr><th>Feature</th><th>Support or Limitation</th></tr>
<tr><td>Supported VGA/DVI-I input resolutions.</td><td>LifeSize systems support native 16:9 and 4:3 VGA/DVI-I inputs. The System Information screen shows the actual VGA/DVI-I input size for the VGA/DVI-I Input status. The input selector now shows a 16:9 or 4:3 window for the input depending on the aspect ratio.

The system supports VGA/DVI-I input resolutions as follows:

<table>
<tr><th>Resolution</th><th>Behavior</th><th>LifeSize Model</th></tr>
<tr><td rowspan="2">640x480</td><td>scaled to 1024x768</td><td>LifeSize Room
LifeSize Team
LifeSize Team MP
LifeSize Express</td></tr>
<tr><td>native (no system changes)</td><td>LifeSize Room 200
LifeSize Team 200
LifeSize Express 200</td></tr>
<tr><td rowspan="2">800x600</td><td>scaled to 1024x768</td><td>LifeSize Room
LifeSize Team
LifeSize Team MP
LifeSize Express</td></tr>
<tr><td>native (no system changes)</td><td>LifeSize Room 200
LifeSize Team 200
LifeSize Express 200</td></tr>
<tr><td>1024x768</td><td>native (no system changes)</td><td>All models</td></tr>
<tr><td>1280x720</td><td>native (no system changes)</td><td>All models*</td></tr>
<tr><td>1280x768</td><td>native (no system changes)</td><td>All models*</td></tr>
<tr><td rowspan="2">1280x1024</td><td>scaled to 1024x768, aspect ratio distorted to fit</td><td>LifeSize Room
LifeSize Team
LifeSize Team MP
LifeSize Express</td></tr>
<tr><td>native (no system changes)</td><td>LifeSize Room 200
LifeSize Team 200
LifeSize Express 200</td></tr>
</table>
* The largest 4:3 resolution supported is 1024x768 on LifeSize Room, LifeSize Team, LifeSize Team MP, and LifeSize Express; and 1280x1024 on LifeSize Room 200, LifeSize Team 200, and LifeSize Express 200. The largest 16:9 supported resolution is 1280x768.

The resolutions are sent natively to the far end for the primary or secondary video streams. The resolutions may not exactly match due to H.264 or H.263 protocol resolution constraints. These resolutions are supported only with a screen refresh rate set to 60 Hertz on the device connected to the VGA input.</td></tr>
</table>

Interoperability

LifeSize video communications systems with this software release are supported with the following third party devices.

Supplier	Products
Asterisk	Asterisk 1.4.22.1
Avaya	SIP Enablement Services: v5.1 Communication Manager: v5.1
BroadSoft	BroadWorks; 13,14 SP5
Cisco	Unified Communications Manager: v6.0.1 for SIP calls only CallManager 4.x for audio calls and CallManager Express for both video and audio calls. Users can register LifeSize systems as H.323 extensions through the Cisco IOS Gatekeeper. The Cisco IOS Gatekeeper must be installed in the network. For more information about IP PBX configuration and support, contact your product distributor or LifeSize Technical Services.
ClearOne	EX 1.2 (PSTN Phone)
Codian	MCU 4220: 2.4 (1.20) MCU 4505: 2.4 (1.20) ISDN Gateway 3240: 1.3 (1.14), 1.4 (0.20)N
LifeSize	Multipoint: 5.7 Multipoint Extension: 5.7 Gatekeeper: 5.6 Gateway (PRI and Serial): 5.6 Phone: 3.7.0 Networker: 3.1.0 Transit: 2.0 Control: 4.0
Microsoft	Office Communications Server 2007: 3.0.6362.0 (R1), 3.5.6907.0 (R2) Office Communicator 2007: 2.0.6362.0 (R1), 3.5.6907.0 (R2)
Polycom	HDX 9002: 2.5.0.1 HDX 9004: 2.5.0.1 HDX 4000: 2.5.0.1 VSX 7000: 9.0.5 VSX 8000: 9.0.5 ViewStation MP: 7.5.4 ViewStation: EX: 6.0.5 ViaVideo PVX: 8.0.4 IP 3000: 2.8 (speakerphone) IP 4000: 2.2 (speakerphone) MGC 50/100: 9.0 Path Navigator 7.0.3 SoundStation Premier
Radvision	ECS Gatekeeper: 5.6 Pathfinder: 5.6 SCOPIA 100 12/24 MCU: 5.7 SCOPIA 100 PRI Gateway: 5.6 SCOPIA Desktop 5.7
ShoreTel	ShoreWare v8.0

Supplier	Products
Sony	PCS-1: 3.31 PCS-TL: 2.10 PCS-G70: 2.62
sipX	sipXecs: 3.10
Tandberg	Edge, Centric, and Set-top MXP: F7.2 6000: B10.3 880: E5.3 1000: E5.3 Gateway: G3.2 Border Controller: Q5.2 GK: N5.2 MCU: J4.0

Interoperability Limitations

The following table lists known limitations with third party products. Numbers in parentheses following an issue are used for internal tracking purposes only.

Feature	Limitation
General Third Party Issues:	
Presentation from far end participant appears as black video when sent to LifeSize system as MCU and one far end participant accepts H.261 video only. (END-11372)	A presentation sent by a far end participant in a multiway video call with a LifeSize system as the MCU appears as black video if one of the devices in the call is configured to accept H.261 video only. To avoid this problem, LifeSize recommends using default configuration settings for video codecs for all devices in the call.
Calls with devices that do not support H.264 may fail in mixed SIP and H.323 conference call. (END-9378)	Calls with third party devices that do not support H.264 may fail when a conference call includes a mix of SIP and H.323 connections.
Video issues in calls when static NAT enabled on LifeSize systems and calls placed through routers with application-level gateways. (END-6920)	Enabling static NAT on a LifeSize system and then placing a call through a router with an application-level gateway or protocol fixup that modifies call control traffic may result in no video and/or audio at either the near end or far end of the call. Depending on the router, disabling static NAT on the LifeSize system may resolve this issue.
Audio/video may be affected when registered to different gatekeepers. (END-2871)	Audio and video may be affected in calls with LifeSize systems and third-party devices that are registered to different gatekeepers.
BroadSoft:	
SIP dual video not supported in SIP calls between LifeSize systems connected through BroadWorks. (END-10644)	A presentation with SIP dual video fails to start in SIP calls between LifeSize systems connected through BroadWorks. To work around this issue, send the presentation video as primary video by selecting *Disabled* for the **Presentations** preference in **Administrator Preferences : Communications : General** before placing the call.

Feature	Limitation
Cisco:	
6000 kb/s SIP call placed between two LifeSize systems through Cisco Unified Communications Manager connects at 1000 kb/s (END-11127)	A 6000 kb/s SIP call placed from a LifeSize Room or LifeSize Room 200 system to another LifeSize Room or LifeSize Room 200 system through Cisco Unified Communications Manager connects at 1000 kb/s. To work around this issue set the **Incoming Maximum Bandwidth** preference in **Administrator Preferences : Calls** on the LifeSize system to *6000 kb/s*.
SIP dual video not available in SIP calls through Cisco Unified Communications Manager. (END-10870)	SIP dual video is not available in SIP calls between LifeSize video communications systems connected through Cisco Unified Communications Manager.
Poor quality audio when placing a call through a Cisco PSTN gateway. (END-9143)	You may experience poor quality audio in a call placed through a Cisco PSTN gateway. To work around this issue, move the G.711 audio codec to the top of the list in **Administrator Preferences : Audio : Audio Codec Order**.
H.239 may not work through your CISCO PIX or ASA (Adaptive Security Appliance) firewall/ASA device. (END-1611)	The Cisco fixup protocol does not recognize H.239 and terminates a call if it attempts to open an H.239 stream. If you have a PIX firewall/ASA device and are using it to manage the H.323 protocol, you may experience any of the following conditions. • If you are using the H.323 fixup protocol and your version of the PIX firewall/ASA (Adaptive Security Appliance) only supports H.323 version 2 endpoints, (PIX Firewall or ASA version 5.3 through version 6.2) the calls always negotiate to H.263 CIF resolution instead of H.263 HD resolution, and the calls always negotiate to an audio algorithm other than AAC. To work around this issue, upgrade your PIX Firewall/ASA to a version that supports H.323 version 3 or greater. • If you are using any known version of the Cisco PIX/ASA H.323 fixup protocol, presentations (H.239) fail and will likely cause the call to terminate. To work around this issue, disable presentations. Alternatively, to work around all of these issues, configure NAT/firewall settings based on information in the LifeSize Video Communications Systems Administrator Guide, and then turn off the fixup protocol.
Call forward and voicemail on CME works only with Cisco Phones. (END-3320)	LifeSize does not currently support the Cisco proprietary SCCP protocol required to use call forwarding or voicemail with the Cisco IP Phone.
Codian:	
Video and text is cropped on bottom or sides in multiway call with Codian MCU 4505 (END-9248)	In a multiway call with a Codian MCU, video and text that appear in the display may appear cropped on the bottom or sides of the image. To work around this issue, add the LifeSize system to the directory on the Codian MCU and adjust the border size to 2 or 3 depending on your display. You can adjust the border size from the LifeSize system during a call using far end camera control. With the far end camera of the Codian MCU selected, press the zoom out key on the remote control, ensure that **Border width** is selected and then press the right arrow key to change the border width.

Feature	Limitation
Poor quality audio in calls with Codian MCU 42XX at software version earlier than v2.1. (END-5858)	You may experience poor quality audio in calls with a Codian MCU 42XX that has system software earlier than v2.1. To resolve this issue, upgrade the Codian MCU to v2.1 or later.
Polycom:	
Presentation from LifeSize system as the MCU in a multiway call with Polycom HDX stops if another participant leaves the call. (END-10898) (END-11355)	When a LifeSize system is the MCU in a multiway call and sending a presentation, the presentation stops if a Polycom HDX system is a participant and another participant leaves the call or a third party device joins the call. To work around this issue, hang up the call, place the call again, and restart the presentation, or ensure that all participants are in the call during the presentation.
Green patches appear in video when video switching configured on Polycom MGC 50 and AES Security enabled. (END-8679)	Green patches appear in video in LifeSize systems during an AES encrypted call with Polycom MGC 50 when the Polycom system is configured to use video switching.
Video freezes in Polycom VSX 7000 in encrypted multiway call when presentation is shared from LifeSize system as the MCU. (END-8909)	Polycom VSX 7000 may fail to receive a presentation started by a LifeSize system as the MCU during an encrypted multiway call. The presentation is received if the call is placed without encryption enabled.
Presentation from Polycom HDX fails with LifeSize Room as MCU if another participant does not support H.264 video. (END-9252)	A presentation from a Polycom HDX participant in a multiway call with LifeSize Room as the MCU fails if another participant in the call does not support H.264 ancillary video.
LifeSize system unable to send presentation from SD input with Polycom VSX 8000 as MCU in multiway call. (END-7611) (END-9357)	A LifeSize system in a multiway call with Polycom VSX 8000 or VSX 7000 as the MCU cannot send a presentation from a device connected to the SD input due to limitations in negotiating a compatible resolution for the video. The same issue occurs if the presentation device is connected to the VGA input on the LifeSize system. To work around this issue if the VGA input is used, change the resolution on the VGA input device to 1024x768 or greater.
No video sent to Polycom MGC from LifeSize calling through a third party IP/ISDN gateway. (END-7506)	LifeSize systems do not send video to a Polycom MGC when the LifeSize system calls the device through a third party IP/ISDN gateway. To work around this issue, use a LifeSize Networker for ISDN calls to the Polycom MGC.
Concurrent H.239 presentations unsupported with MGC. (END-3802)	If a presentation is in progress during a call with a Polycom MGC as the MCU and another participant starts a presentation, the new presentation does not appear in the display. To work around this issue, stop the current presentation before starting the new presentation.
No presentation from Polycom VSX 7000 with Polycom MGC as the MCU. (END-6513) (END-10310)	LifeSize systems do not receive a presentation from Polycom VSX 7000 when Polycom MGC is the MCU due to features sent from the MCU that are not supported on LifeSize systems.
Audio codec G.722 negotiated in a call with Polycom MGC. (END-6029)	LifeSize systems negotiate only the G.722 audio codec in calls with Polycom MGC systems.

Feature	Limitation
Radvision:	
Poor quality audio with G.728 audio codec in calls with LifeSize v3.5 systems and Radvision SCOPIA 100 12/24 MCU. (END-7609)	You may experience poor quality audio when the G.728 audio codec is used in calls with LifeSize systems v3.5 and Radvision SCOPIA 100 12/24 MCU with software versions earlier than 5.5.3. To resolve this issue, upgrade the Radvision SCOPIA 100 12/24 MCU to version 5.6 or later.
Sony:	
Second presentation started from LifeSize system in 2-way call with Sony PCS-G70 fails. (END-10874)	A LifeSize system in a 2-way call with Sony PCS-G70 (v2.63) can start and stop only one presentation during the call. Attempting to start a subsequent presentation fails. To work around this issue, hang up the call, place the call again, and start the presentation.
Tandberg:	
SIP call placed from LifeSize system using UDP/TCP signaling to Tandberg device using TLS and security set to auto fails. (END-10462)	A SIP call placed from a LifeSize system configured to use UDP/TCP signaling for SIP calls to a Tandberg MXP device using TLS and security set to auto fails. To work around this issue, place the call from the Tandberg device or disable the auto feature on the Tandberg device.
LifeSize Room or LifeSize Room 200 using voice-activated switching of video and Tandberg 880 or 1000 in a two-way call connect as audio only call. (END-8967)	A LifeSize Room or LifeSize Room 200 system using voice-activated switching of video (**Multiway Call Layout** preference set to *Last Speaker*) and a Tandberg 880 or 1000 system in a two-way call fail to negotiate a video codec. The call connects as an audio call. To work around this issue, upgrade the Tandberg system to software release E5.3 NTSC (Rev. 1.20, 2002-02-08) and then set **System Configuration : Call Quality : Advanced Call Quality : Video** to *Auto* on the Tandberg system.
No video in Tandberg 1000 MXP from LifeSize system after Tandberg adds another caller. (END-7648)	In a call with a LifeSize system, no video appears in the Tandberg 1000 MXP display from the LifeSize system after the Tandberg system adds another caller. To work around this issue, from the Tandberg system do the following: 1. Place the call to the LifeSize system. 2. Add another LifeSize participant. 3. After the call connects, disconnect the last participant.

Documentation Errata

The following table lists known issues in the technical documentation available in this release and software release v4.0.

Erratum Summary	Description
LifeSize Video Communications Systems Administrator Guide:	
References to LifeSize Express 200	The LifeSize Video Communications Systems Administrator Guide does not include references to LifeSize Express 200 in sections that identify differences in features based on system model. The following list identifies where these references are missing: • The section *Configuring LifeSize Systems Using DHPC* section is missing information for the #S escape for a LifeSize Express 200 system. The #S escape when used in the path for configuring the DHCP option is replaced by `express2` for this system model. • The section *Using the Reset Button on LifeSize Express, LifeSize Room 200, or LifeSize Team 200* also applies to LifeSize Express 200. • The section *Selecting the Active Microphone* identifies by system model the options available for the **Active Microphone** preference and the order in which an active microphone is chosen when this preference is set to *Auto*. The options available and the behavior of the *Auto* option for this preference for LifeSize Express 200 are the same as those identified for LifeSize Express. • The section *Testing Primary Audio Output* indicates that on LifeSize Express, LifeSize Room 200 and LifeSize Team 200, primary audio test tones output through line out and HD video out of Display 1. This statement also applies to LifeSize Express 200. • The section *Customizing Input Device Names* identifies the input names that can be customized by system model. Administrators can customize the **HD Camera 1 Name** and **DVI-I Input Name** preferences.
New features in this release	The LifeSize Video Communications Systems Administrator Guide does not include information about the **SIP Server Type**, **HD Camera Auto Exposure**, and **Local Directory** configuration preferences included in this release. For more information about these preferences, refer to New Features and Resolved Issues on page 2.
LifeSize Room 200 and bandwidth preferences settings (END-8504)	The *Managing Bandwidth* section incorrectly states that when the **Outgoing Maximum Bandwidth** and **Incoming Maximum Bandwidth** preferences are set to *Auto* and the user chooses *Auto* for the bandwidth when placing a call, LifeSize Room 200 uses a bandwidth that is dependent on the native resolution of the input device. This feature was not implemented on LifeSize Room 200.

Erratum Summary	Description
Auto start presentation feature enhanced after publication deadline (END-9719)	The first sentence in the section *Manually Starting a Presentation* states that if the **Presentations** preference is set to *Enabled* (the default), a presentation starts automatically during a call if a user connects a video input device other than a LifeSize Camera or LifeSize Focus to the codec. This feature was enhanced after the publication deadline. If the **Presentations** preference is set to *Enabled*, a presentation starts automatically during a call if a user connects a video input device other than a LifeSize Camera, LifeSize Camera 200, or LifeSize Focus to the codec and the video input device is not selected as the primary input.
License key enforcement and manually obtaining a license key	Information about license key enforcement and how to obtain a license key manually when an attempt to retrieve the key through the user or web administration interfaces fails was not available at publication deadline. In addition, the section *Updating License Keys* indicates that the message `Failed Connection` returns when a system fails to connect to the LifeSize license key server. The actual message is `Service Unavailable`. For more information, refer to the technical note *Installing and Updating an Upgrade License Key: LifeSize Video Communications Systems* available from the Support page of www.lifesize.com and from the software download page for your system.
Changing an IPv4 address does not result in a system reboot. (END-611)	A LifeSize system no longer automatically reboots after you change an IPv4 address in **Administrator Preferences : Network : General**.

<table>
<tr><th>Erratum Summary</th><th>Description</th></tr>
<tr><td>Behavior of Auto option for Default Primary Input and Default Presentation Input preferences (END-8897) (END-9528)</td><td>Information about the behavior of the Auto option for the Default Primary Input and Default Presentation Input preferences in Administrator Preferences : Video : Video Control was not available at publication deadline. If you choose Auto (the default) for the Default Primary Input preference, the system chooses a default input device in the following order:

<table>
<tr><th>Model</th><th>Input Priority</th></tr>
<tr><td>LifeSize Room</td><td>1. HD Camera (active camera)
2. Auxiliary video</td></tr>
<tr><td>LifeSize Team/Team MP</td><td>1. HD Camera
2. Document Camera</td></tr>
<tr><td>LifeSize Team 200
LifeSize Express</td><td>1. HD input 1 (if connected to LifeSize Camera 200)
2. HD Camera (a LifeSize camera connected to the port labeled LifeSize Camera Only or System Camera Only)
3. HD input 1 (connected to a device other than a LifeSize Camera 200)</td></tr>
<tr><td>LifeSize Room 200</td><td>1. HD input 1 (if connected to LifeSize Camera 200)
2. HD input 2 (if connected to LifeSize Camera 200)
3. HD Camera (a LifeSize camera connected to the port labeled System Camera Only)
4. HD input 1 (connected to a device other than a LifeSize Camera 200)</td></tr>
</table>

On LifeSize Express 200, the HD Camera 1 input is selected if you choose Auto for the Default Primary Input preference.

Choosing Auto (the default) for the Default Presentation Input chooses the device connected to the VGA or DVI-I input on the codec.</td></tr>
<tr><td>VISCA Input preference on LifeSize Room 200</td><td>Information about the VISCA Input preference in Administrator Preferences : Video : Video Control on LifeSize Room 200 is missing from the Administrator Guide. For more information about using this preference, refer to the technical note Using the Sony EVI-HD1 Camera with LifeSize Room 200. The default is SDI Adapter. If you are using the RS-232 serial port on LifeSize Room 200 to control the system through the command line interface with a third party device, None appears as the value for this preference.</td></tr>
<tr><td>Transposition error in preference name.</td><td>References to the Stretch Video preference appear as Video Stretch in the section Controlling Video Stretch.</td></tr>
</table>

Erratum Summary	Description
LifeSize Video Communications Systems User Guide:	
Presentation icon appears in corners of display 1 when LifeSize Express 200 is used with two displays.	In the section *Initiating a Presentation* the following statements appear: *The receiving presentation indicator appears on top of the presentation video that you are receiving from a far end participant. The sending presentation indicator appears on top of the presentation video that you are sending.* With LifeSize Express 200 connected to two displays, these indicators always appear in display 1. The receiving presentation indicator appears in the upper left corner of the display; the sending presentation indicator appears in the lower right corner of the display.
Screen layouts enhancements	The section *Understanding Screen Layouts* does not include information about enhancements to screen layouts that are included in this release. For information about these enhancements, refer to New Features and Resolved Issues on page 2.
Change in system behavior when the # symbol is entered as the first character when placing a call.	The section *Placing a Call* includes the following statement: *If you enter # as the first character when placing a call, the system attempts to dial the call first as an ISDN number.* In this release, a LifeSize system attempts to place a call first as an ISDN call when the # symbol is entered as the first character only if LifeSize Networker is configured for use with the LifeSize system.
Presentations with LifeSize Room and LifeSize Team MP in 4-way call	The section *Initiating a Presentation* states that if you are using LifeSize Room or LifeSize Team MP in a four-way call, only the system that is hosting the conference call can initiate a presentation. In this release, participants other then the MCU in the call can start a presentation or join the call if a presentation from a participant other than the MCU is in progress.
Digital Zoom	Information about digital zoom was not available at publication deadline. For information about this feature, refer to Using Digital Zoom on page 26.
Virtual multiway explained in the context of the features affected by the behavior	Virtual multiway is a system behavior introduced in software release v3.0 that affects several features on a LifeSize system participating in a multiway call with another LifeSize system serving as the MCU. With virtual multiway, LifeSize participants can access the same screen layouts that are available to the MCU; control the cameras of all participants; and view caller information for each participant in the call, most notably in the **Call Statistics** screen and the **Call Manager** dialog. A description of how screen layouts, camera control, and the Call Manager dialog behaves during a multiway call with another LifeSize system serving as the MCU appears in the User Guide in the appropriate feature-related sections without reference to the term “virtual multiway.”

Erratum Summary	Description
Clarification of encryption icons in images sent to LifeSize participants from a LifeSize system serving as the MCU. (END-9246)	Encryption icons that appear in video images sent from a LifeSize system serving as the MCU to another LifeSize system in a multiway video call reflect the encryption status of the data transmitted and received in the call connection between the MCU and the LifeSize participant only. The encryption status of the call connection from another participant to the LifeSize system serving as the MCU is available only to the MCU.
Installation Guides:	
Choosing an unsupported display resolution forces the **Display Resolution** preference to *Auto*.	LifeSize systems automatically set the **Display Resolution** preference to *Auto* if you select an option for this preference that is not supported by the connected display. This information appears in the Installation Guide for LifeSize Express 200 but is missing from the installation guides for all other system models.
Audio meter enhancements	Information about audio meter enhancements included in this release appears in the Installation Guide for LifeSize Express 200 but is missing from the installation guides for all other system models. For information about this feature, refer to New Features and Resolved Issues on page 2.

Technical Services

LifeSize Communications welcomes your comments regarding our products and services. If you have feedback about this or any LifeSize product, please send it to feedback@lifesize.com. You may also contact LifeSize Technical Services as follows:

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E-mail	support@lifesize.com
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Fax	(512) 347-9301

Using Digital Zoom

This release includes support for digital zoom with LifeSize Focus and LifeSize Camera connected to LifeSize Express, LifeSize Express 200, LifeSize Room 200, and LifeSize Team 200. Digital zoom electronically crops an area of the video image shown in the display using the same aspect ratio as the original image and then scales the cropped image to the dimensions of the original image.

> **Note**: Image quality may degrade when using digital zoom.

Administrators can enable this feature by choosing *Enabled* for the **Digital Zoom** preference in **Administrator Preferences : Video : Video Control**.

Digital zoom is available with LifeSize Camera only after the camera's longest focal length with optical zoom has been reached.

> **Note**: Support for camera presets with LifeSize Camera while using digital zoom is not included in this release. Using a camera preset while in digital zoom returns the camera to optical zoom.

To use digital zoom, do the following:

1. Ensure that the camera is selected as the primary video input. Digital zoom is available only when the camera is selected as the primary video input. For more information about selecting a device as the primary video input, refer to "Changing Video Inputs" in the *LifeSize Video Communications Systems User Guide*.
2. Select the near end camera to control. Refer to "Controlling a Near End Camera" in the *LifeSize Video Communications Systems User Guide* for information about how to select the near end camera when the system is idle. During a call, the near camera is selected by default. An orange and white camera icon appears in the near video image when the user interface is visible and the near end camera is selected.
3. Depending on the camera you are using, do one of the following:
    - If you are using LifeSize Focus, press the zoom in button on the remote control to obtain a closer view of the near end video image.
    - If you are using LifeSize Camera, press and hold the zoom in button on the remote control until you hear a beep, and then release the zoom in button. The beep indicates that you have reached the longest focal length with the camera's optical zoom. Press the zoom in button again to use digital zoom.
4. Use the arrow keys on the remote control to digitally pan and tilt the camera. Depending on the camera you are using, digital pan and tilt behaves as follows:
    - If you are using LifeSize Focus, digital pan and tilt are available only after you activate digital zoom by pressing the zoom in button. If you exit digital zoom by using the zoom out button to return to the camera's original fixed focal length, digital pan and tilt are not available.
    - If you are using LifeSize Camera, digital pan and tilt are available only when using digital zoom and only after the camera's mechanical limits of pan and tilt have been reached.
5. Use the zoom out button to view the image from farther away or to exit digital zoom.