



LifeSize[®] UVC Video Engine[™] for Microsoft[®] Lync[®] Deployment Guide

LifeSize UVC Video Engine for Microsoft Lync

LifeSize UVC Video Engine for Microsoft Lync works with video systems from the LifeSize Passport and LifeSize 220 series to convert video between Microsoft's RTVideo format and the standard H.264 format.

Deploying	Perform the initial configuration, enable the UVC Video Engine, and connect a LifeSize video system to the UVC Video Engine.	Deploying LifeSize UVC Video Engine for Microsoft Lync
Maintaining	Monitor transcodes, current calls, and server health.	Maintaining LifeSize UVC Video Engine for Microsoft Lync

An appendix describes the task of [Configuring a LifeSize Video System for Use with Microsoft Lync Server](#).

Related documentation is available from lifesize.com/support.

Section 1: Deploying LifeSize UVC Video Engine for Microsoft Lync

The process of deploying the UVC Video Engine includes completing the initial configuration, enabling the application, and connecting the appropriate LifeSize video systems to the UVC Video Engine.

UVC Video Engine must be installed in the same on-site LANs as the relevant video systems from the LifeSize Passport and LifeSize 220 series. Do not position any firewalls or other port-blocking elements between the LifeSize video systems and the UVC Video Engine.

Initial Configuration

1. Install the LifeSize UVC Platform appliance or virtual machine according to the instructions in the *LifeSize UVC Platform Installation Guide*.
2. Log in to LifeSize UVC Platform and activate a license for the UVC Video Engine.
Refer to the *LifeSize UVC Platform Deployment Guide*.
3. Complete the initial configuration for the UVC Video Engine as described in [Enabling LifeSize UVC Video Engine for Microsoft Lync](#).

Enabling LifeSize UVC Video Engine for Microsoft Lync

Ensure that a license for the UVC Video Engine has been activated before performing these steps. Refer to the *LifeSize UVC Platform Deployment Guide* for additional information.

1. Log in to the LifeSize UVC Platform.

The default administrator credentials for LifeSize UVC Platform and all enabled applications are as follows:

Username: *administrator*

Password: *admin123*

NOTE You can also create an administrator account with separate credentials for logging in to the UVC Video Engine. Refer to step 4 in this task.

2. Ensure that an IP address is available for configuring the UVC Video Engine:
 - a. Navigate to **System Settings : IP Addresses – Edit**.
 - b. Click **Add address**.

- c. Enter the new IP address.

NOTE Press **Tab** to instruct the server to enter the remaining values, or enter each remaining value. Ensure that you review the values entered by the server.

- d. Click **Apply Changes**.

3. Enable the UVC Video Engine:

- a. Navigate to **Operations and Maintenance : Applications enabled – Edit**.
- b. In **Enable new application**, select **UVC Video Engine**.

NOTE If **UVC Video Engine** does not appear as an option, update the LifeSize UVC Platform to the latest release. Refer to the *LifeSize UVC Platform Deployment Guide*.

- c. Select the IP address.

- d. Click **Enable Application**.

4. *Optional:* Create an additional administrator account for the UVC Video Engine.

- a. Navigate to **User Management : Users – Add**.
- b. Enter a username and password.
- c. Click **Save**.
- d. In **Video Engine Permissions**, select **Video Engine Administrator**.
- e. Click **Save**.

Connecting a LifeSize Video System to LifeSize UVC Video Engine for Microsoft Lync

Before connecting a LifeSize video system to the UVC Video Engine, ensure that the following requirements are satisfied:

- A valid Microsoft user account exists. Refer to Microsoft's instructions for creating a user for Microsoft Lync Server or OCS. LifeSize recommends that you select the **Password Never Expires** check box.
- The LifeSize video system has been configured for use with Microsoft Lync Server or OCS. Read more at [Configuring a LifeSize Video System for Use with Microsoft Lync Server](#).

Perform the following steps to connect a LifeSize video system to the UVC Video Engine:

1. Enter the IP address of the appropriate LifeSize video system in a standard browser to access the system's web administration interface.
2. Navigate to **Preferences : Communications : SIP** and verify that the registrar status at the top of the page is Registered.

If the registrar status is not Registered, refer to [Configuring a LifeSize Video System for Use with Microsoft Lync Server](#) for instructions on registering your LifeSize video system with Microsoft Lync.

3. In the **UVC Video Engine for Lync** text box, specify the IP address of the UVC Video Engine.

NOTE If UVC Video Engine uses a port other than the default value of 50500 as the listening port, use the format `IP address:port number` to specify both the IP address and the port number of the UVC Video Engine.

4. In the UVC Video Engine, navigate to the **Home** page and verify that the LifeSize video system appears in the **Connected Video Systems** table.

Section 2: Maintaining LifeSize UVC Video Engine for Microsoft Lync

Changing the IP Address

1. Navigate to **Platform Administration: System Settings**.
2. In the **IP addresses** row of the **Network Settings** table, click **Edit**.
3. Identify the IP address that you want to change and click **Edit**.

If you do not know which IP address is currently associated with the UVC Video Engine, click **Edit** to view the server or application that is associated with an IP address.

4. Make the appropriate changes to the IP address.
5. Click **Apply Changes**.

Changing the Call Quality

The maximum call quality specifies the highest video resolution that is supported for all calls that are placed through the UVC Video Engine.

1. Navigate to **Video Engine : System Settings**.
2. In the **Maximum video quality** row of the **System Settings** table, click **Edit**.
3. Select the appropriate value for the maximum video quality.
4. Click **Save**.

Changing the Port Number

The current listening port indicates the connection port used by LifeSize video systems that require use of the UVC Video Engine to place a call. If the listening port is changed, a video system that is already connected to the UVC Video Engine retains its previous connection information until a new port is configured on the system.

1. Navigate to **Video Engine : System Settings**.
2. In the **Current Listening Port** row of the **System Settings** table, click **Edit**.
3. Select the appropriate value for the current listening port.
4. Click **Save**.

Changing the Log Level

Changing the log level does not affect call quality.

1. Navigate to **Video Engine : System Settings**.
2. In the **Log Level** row of the **System Settings** table, click **Edit**.
3. Select the appropriate value for the level.
4. Click **Save**.

Resetting Values to the Factory Defaults

Click **Reset** at **Video Engine : System Settings** to restore the system to the factory defaults.

Monitoring the Server

Administrators can monitor the server in **Platform Administration : System Status**.

Property	Description
System Status	Displays current uptime, CPU load, and memory usage statistics.
RTVideo Transcodes	Displays the current number of RTV transcodes (two transcodes per call).
Connected Video Systems	Displays the IP addresses of all currently connected LifeSize video systems.
System Settings	Displays the current values for the maximum video quality, listening port, and log level.

Appendix: Configuring a LifeSize Video System for Use with Microsoft Lync Server

Video systems from the LifeSize Passport and LifeSize 220 series can be configured to communicate with Microsoft Lync server and OCS. Choose the automatic configuration if the Microsoft Lync server or OCS is set up for automatic configurations. Choose the manual configuration if you need to specify the Microsoft Lync server or OCS to which you want to connect.

Automatic Configuration

1. Enter the IP address of the appropriate LifeSize video system in a standard browser to access the system's web administration interface.

2. Navigate to **Preferences : Communications : SIP**.

3. Verify that **SIP** is set to *Enabled*.

4. Enter the username of the appropriate Microsoft Lync user.

Specify the username in the format `user@domain.com`, such as `LifeSize234@home.com`. This value is the equivalent of the sign-in address in Microsoft Lync and Office Communicator.

Refer to Microsoft's instructions for creating a user for Microsoft Lync Server or OCS.

5. Enter the same value for the authorization name that you used for the username in step 4 of this task.

Specify the authorization name in the format `LifeSize234` or `home\LifeSize234`. This value is the equivalent of the username in Microsoft Lync and Office Communicator.

6. Enter an authorization password.

The authorization password is typically the user's active directory password. This value is the equivalent of the password in Microsoft Lync and Office Communicator.

7. Set **SIP Server Type** to *Microsoft OCS/Lync*.

8. Click **Refresh**.

NOTE The LifeSize video system might require restarting before registering to the server.

9. Verify that the registrar status at the top of the page is Registered.

With video systems from the LifeSize Passport series, the process of enabling Microsoft Lync or OCS automatically sets the maximum incoming and outgoing call bandwidths to 384 kb/s. Setting these bandwidths to a higher value might produce a few seconds of corrupted video in Microsoft Lync or OCS encrypted federated calls.

Manual Configuration

1. Perform steps 1 – 6 in [Automatic Configuration](#).
2. Set **SIP Server Type** to *Microsoft OCS/Lync (Manual)*.
3. Set **Internal Server** to the front-end server's hostname or IP address, such as `hostname:port` or `hostname`.
4. Set **External Server** to the edge server's hostname or IP address, such as `hostname:port` or `hostname`.
5. Click **Refresh**.

NOTE The LifeSize video system might require restarting before registering to the server.

6. Verify that the registrar status at the top of the page is Registered.

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