Technical Note
Changing Content in LifeSize Video Center Videos

This document explains how to add or replace video in recordings created with LifeSize Video Center.

Playback Control in LifeSize Video Center

Recordings created on LifeSize Video Center contain one or more video files (in MP4 format) and a text file named `metadata.json` that defines the order in which the video files play or are synchronized.

LifeSize Video Center creates more than one video file in the following cases:

■ Each presentation is recorded in a separate file to allow LifeSize Video Center users to change the relative layout of the main and presentation video during playback.

■ Long recordings are stored as a series of video files of one hour or less.

■ Recordings that change video resolution are stored in separate files of the same resolution.

LifeSize Video Center achieves the seamless playback of multiple main video files and presentation video files by storing timing information in `metadata.json` that describes the main video timeline and when the presentation file starts and ends relative to the main video timeline.

Example Video Archive

A 2 hour, 10 minute recording with 2 presentations produces the following files in the indicated versions of LifeSize Video Center:

LifeSize Video Center v1.0.x and v1.1.x	LifeSize Video Center v1.2 and later
mainfeed.mp4	mainfeed_dual_<bit rate>.mp4
mainfeed-2.mp4	mainfeed_dual_<bit rate>-2.mp4
mainfeed-3.mp4	mainfeed_dual_<bit rate>-3.mp4
presentation-1.mp4	presentation-1.mp4
presentation-2.mp4	presentation-2.mp4

The `metadata.json` file for this recording contains the following entries:
`main_timeline: 0 3600 7200 7300`
`presentation_timeline: 0 120 600 3660 4260`
	The `metadata.json` file lists each type of feed in its own section and time line. Primary dual stream video is labeled type 1. Its timeline looks like the following:
	`timeline: 0 3600 7200 7300`
	Presentation video is type 2. Its timeline looks like the following:
	`timeline: 0 120 600 3660 4260`

Time is represented in seconds. The main feed timeline entry instructs LifeSize Video Center to play <*main video*>.mp4 for the first hour (3600 seconds), switch to <*main video*>-2.mp4 for the next hour (until 7200 seconds), and then play <*main video*>-3.mp4 for te next 100 seconds.

The presentation timeline instructs LifeSize Video Center to start presentation-1.mp4 at 2 minutes (120 seconds) and stop it 10 minutes (600 seconds) into the main video. Presentation-2 starts at 1:01:00 and ends at 1:11:00.

Editing the Example Video Archive to Add an Introductory Video

You can add or replace an MP4 video anywhere in the main or presentation timelines as long as you rename the files correctly and edit the timelines in the `metadata.json` file to properly reflect the timing changes.

The following example adds a 5 minute introduction clip to the beginning of the example recording archive.

Before you download the archive and edit the `metadata.json` file to add the new video, delete any low bit rate and mobile versions of the video from LifeSize Video Center. Refer to the *LifeSize Video Center Administrator Guide* to learn how to delete video versions.

1. Download the video archive from LifeSize Video Center and unzip the archive file to reveal the media files and the `metadata.json` file.

2. Rename the existing main feed files. The names vary depending on the version in which they were created. Refer to the example table for the correct naming convention.

    - *<main video>*-3.mp4 becomes *<main video>*-4.mp4

    - *<main video>*-2.mp4 becomes *<main video>*-3.mp4

    - *<main video>*.mp4 becomes *<main video>*-2.mp4

3. Name the introductory clip *<main video>*.mp4.

4. Open the `metadata.json` file in a text editor and change the main video timeline to account for the new 300 second file:

    `0 300 3900 7500 7600`

5. Adjust the presentation timeline to delay both presentations by 300 seconds:

    `0 420 900 3960 4560`

6. Create a tar file of the media files and the edited `metadata.json` file and upload it to LifeSize Video Center. It appears as a new video.

To create or recreate a low bit rate version or mobile versions of this video, schedule transcodes of the main video to the other version after you verify that the modified version works the way you intended in LifeSize Video Center. Refer to the *LifeSize Video Center Administrator Guide* to learn how to schedule transcodes.