

## Using multiple audio tracks with Kaltura Live+

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 This article is designated for administrators.

### About

Kaltura Live+ supports multiple audio tracks for live streaming. This feature is commonly used to offer live events in different languages, improving the experience for multi-lingual audiences.

Instead of creating separate live streams for each language, you can send a single video stream with multiple audio tracks. This approach simplifies setup and reduces bandwidth and processing costs.

Viewers can switch languages directly in the Kaltura Player by selecting their preferred option from the audio menu.



### Requirements for multi-audio tracks

To configure multiple audio tracks for Kaltura Live+ streaming, you need:

#### Multiple audio sources

- For a live event, translators must record different languages in real time.
- For a simulated live event, prepare multiple audio tracks.

#### An encoder that can send separate RTMP feeds for each track

- The video and all audio tracks must use different RTMP stream names.
- Each track requires a separate RTMP connection.
- Broadcast audio and video tracks separately.
- Audio that is interleaved (embedded) with video will be discarded.

### Mapping audio stream names and languages

Use the following mapping when setting up multi-audio streaming:

- English - 1000

- Spanish - 1001
- French - 1002
- German - 1003
- Portuguese - 1004
- Chinese - 1005
- Arabic - 1006
- Hindi - 1007
- Russian - 1008
- Japanese - 1009
- Finnish - 1010
- Swedish - 1011
- Korean - 1012
- Turkish - 1013
- Polish - 1014
- Italian - 1015
- Ukrainian - 1016
- Kiswahili - 1017

**Example:** For a live event in English, Spanish, and French:

- All the video and audio tracks will have the same RTMP endpoint prefix:

```
rtmp://[entryID].[p/b].kpublish.kaltura.com:1935/kLive?t=[token]
```

- Video track stream name (aka Stream Key) will be "1"
- English audio track stream name (aka Stream Key) will be "1000"
- Spanish audio track stream name (aka Stream Key) will be "1001"
- French audio track stream name (aka Stream Key) will be "1002"

## How to set up multi-audio for Kaltura Live+

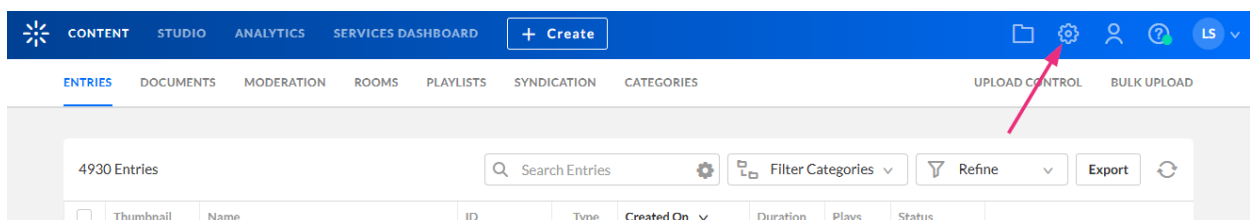


Multi-audio is not supported for Kaltura Passthrough streaming.

- **Account setup** - Your account must include Live+.
- **Transcoding profile** - In the Rich Media CMS, select a transcoding profile that includes all the required audio flavors. See [Configure transcoding settings](#) below.
- **Encoder** - Assign each track (video and audio) to its dedicated endpoint. Start broadcasting the video and all audio tracks at the same time.
- **Player configuration** - No additional configuration is required in the player. When multiple audio tracks are available, the player automatically enables the audio menu so viewers can select their preferred language. To learn more, see [Captions and audio tracks](#).

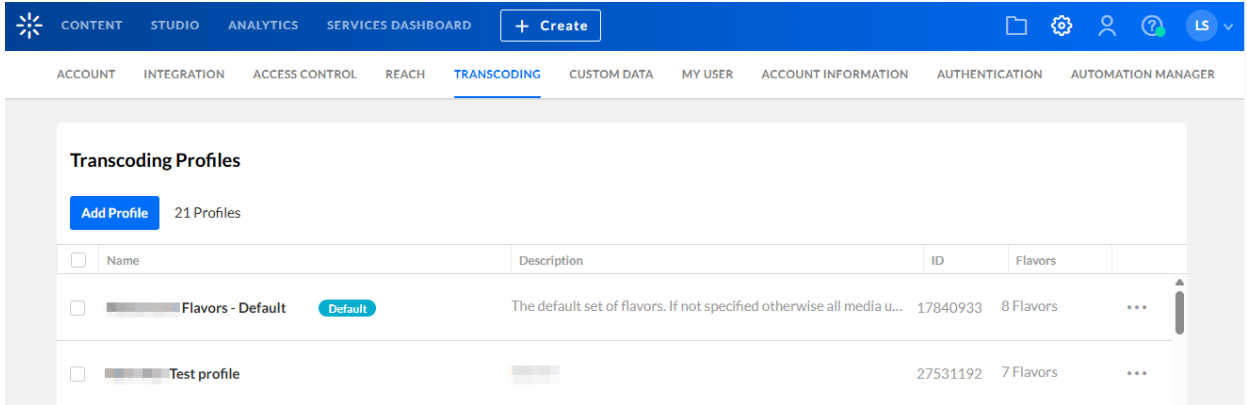
## Configure transcoding settings

1. In your [Rich Media CMS](#), select the **Settings** tab



2. Select the **Transcoding** tab.

The 'Transcoding Profiles' page opens.

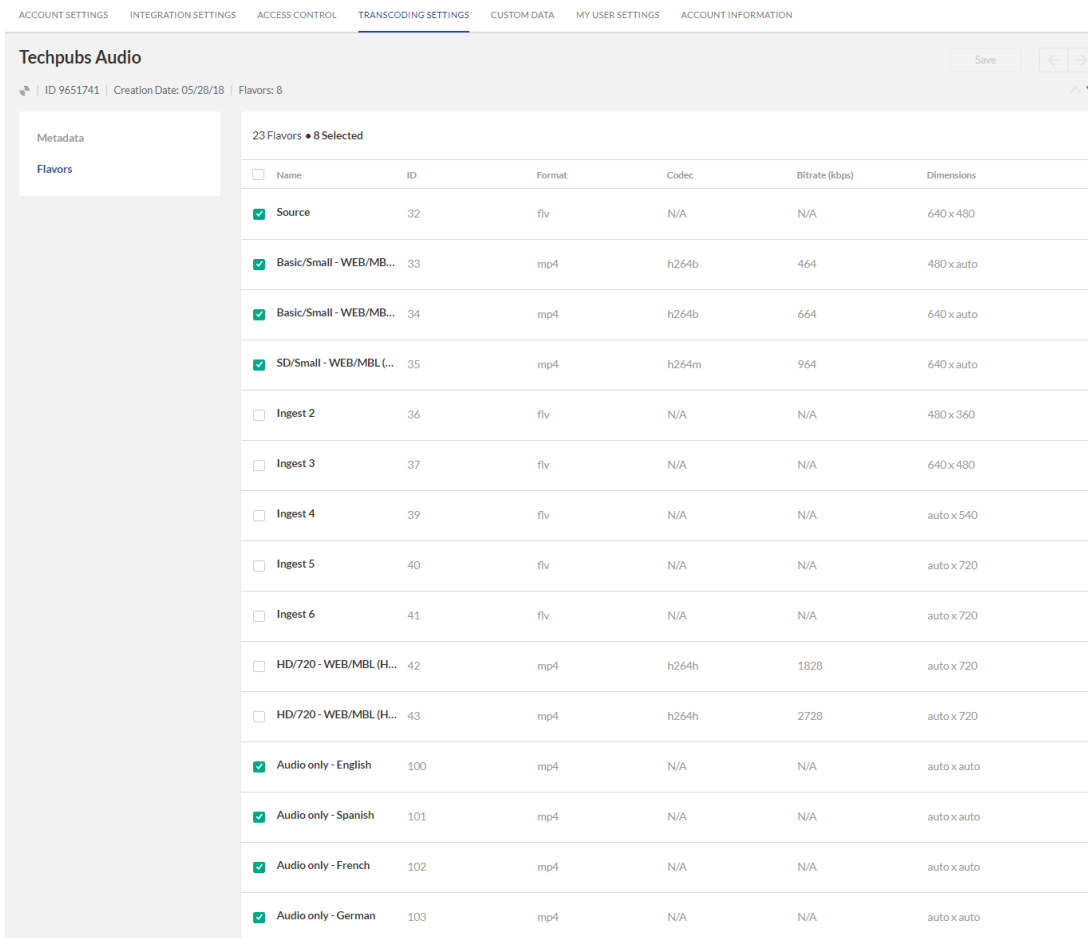


**Transcoding Profiles**

**Add Profile** 21 Profiles

<input type="checkbox"/>	Name	Description	ID	Flavors	
<input type="checkbox"/>	Flavors - Default <span>Default</span>	The default set of flavors. If not specified otherwise all media u...	17840933	8 Flavors	...
<input type="checkbox"/>	Test profile		27531192	7 Flavors	...

3. In the Transcoding Profiles page, select or create a live transcoding profile (see our article [How to Set Transcoding Profiles for Live Streaming](#) for additional information).
  4. Choose video flavors (typically flavor #32 "Source" plus cloud transcode flavors if used).
  5. Select the relevant audio flavors (100 and onward).
  6. Save the profile.
  7. Create a new live entry and assign this profile.
- You can edit the profile later to add more flavors if needed.



**Techpubs Audio** Save ← →

ID 9651741 | Creation Date: 05/28/18 | Flavors: 8

Metadata

Flavors

23 Flavors • 8 Selected

<input type="checkbox"/>	Name	ID	Format	Codec	Bitrate (kbps)	Dimensions
<input checked="" type="checkbox"/>	Source	32	flv	N/A	N/A	640 x 480
<input checked="" type="checkbox"/>	Basic/Small - WEB/MBL...	33	mp4	h264b	464	480 x auto
<input checked="" type="checkbox"/>	Basic/Small - WEB/MBL...	34	mp4	h264b	664	640 x auto
<input checked="" type="checkbox"/>	SD/Small - WEB/MBL (...)	35	mp4	h264m	964	640 x auto
<input type="checkbox"/>	Ingest 2	36	flv	N/A	N/A	480 x 360
<input type="checkbox"/>	Ingest 3	37	flv	N/A	N/A	640 x 480
<input type="checkbox"/>	Ingest 4	39	flv	N/A	N/A	auto x 540
<input type="checkbox"/>	Ingest 5	40	flv	N/A	N/A	auto x 720
<input type="checkbox"/>	Ingest 6	41	flv	N/A	N/A	auto x 720
<input type="checkbox"/>	HD/720 - WEB/MBL (H...	42	mp4	h264h	1828	auto x 720
<input type="checkbox"/>	HD/720 - WEB/MBL (H...	43	mp4	h264h	2728	auto x 720
<input checked="" type="checkbox"/>	Audio only - English	100	mp4	N/A	N/A	auto x auto
<input checked="" type="checkbox"/>	Audio only - Spanish	101	mp4	N/A	N/A	auto x auto
<input checked="" type="checkbox"/>	Audio only - French	102	mp4	N/A	N/A	auto x auto
<input checked="" type="checkbox"/>	Audio only - German	103	mp4	N/A	N/A	auto x auto

## Testing multi-audio for Live+

1. Start broadcasting your video and multiple audio streams.
2. Preview the broadcast in your player.
3. If multiple audio options aren't available:
  - Download the master manifest (.m3u8).
  - Check if the audio group is defined.

### Example manifest:

```
#EXTM3U
```

```
#EXT-X-MEDIA:TYPE=AUDIO,GROUP-ID="audio",LANGUAGE="eng",NAME="English",AUTOSELECT=YES,DEFAULT=NO,URI="http://qa-nginx-vod.dev.kaltura.com/hls/p/1091/sp/109100/serveFlavor/entryId/0_xxxxxxxx/v/2/flavorId/0_q6o5z8f3/name/a.mp4/index.m3u8"
```

```
#EXT-X-MEDIA:TYPE=AUDIO,GROUP-ID="audio",LANGUAGE="spa",NAME="Spanish",AUTOSELECT=NO,DEFAULT=YES,URI="http://qa-nginx-vod.dev.kaltura.com/hls/p/1091/sp/109100/serveFlavor/entryId/0_xxxxxxxx/v/2/flavorId/0_5na0i0y6/name/a.mp4/index.m3u8"
```

### Known limitations

- Multi-audio does not work with seamless failover. Standard primary/backup failover is supported.
  - When downloading a recording with multi-audio tracks, only the video and the first audio track are downloaded. This is a general multi-audio VOD limitation, not specific to Kaltura Live+.
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