

# Low Latency Streaming Guidelines

Live streaming entries can now be configured to deliver low latency live streams using Low Latency HLS.


To set a live stream to low latency mode select the specific entry in KMC and in the *Live Stream Configuration* section on the *Live Stream* tab turn the *Low Latency* switch on:

## Live Stream Configuration

DVR Status: Off

Recording: On

Preview Mode: ☐ Off

Low Latency (Beta):  ☒ On

## Transcoding Profile Configuration

Transcoding Profile: Passthrough 

You can also enable Low Latency streaming upon creation of a new live entry in KMC:

### Create Live Stream Entry

Stream Type	<div style="border: 1px solid #ccc; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> Kaltura Live Streaming (HDS/HLS/DASH) <span>▼</span> </div>
Name *	<div style="border: 1px solid #ccc; height: 20px; width: 100%;"></div>
Description	<div style="border: 1px solid #ccc; height: 20px; width: 100%;"></div>
Live Transcoding Profiles	<div style="border: 1px solid #ccc; padding: 2px; display: flex; justify-content: space-between; align-items: center;"> Passthrough <span>▼</span> </div>
Live DVR	<div style="display: flex; align-items: center;"> <div style="width: 20px; height: 20px; background-color: #ccc; border-radius: 50%; margin-right: 5px;"></div> Off </div> <p style="font-size: 0.8em; margin-top: 5px;">Seeking to previous parts of the live stream. The DVR window is 2 hours by default.</p>
Recording	<div style="display: flex; align-items: center;"> <div style="width: 20px; height: 20px; background-color: #007bff; border-radius: 50%; margin-right: 5px;"></div> On </div> <div style="border: 1px solid #ccc; padding: 2px; margin-top: 5px; display: flex; justify-content: space-between; align-items: center;"> Append recorded content to a single entry <span>▼</span> </div>
Preview Mode	<div style="display: flex; align-items: center;"> <div style="width: 20px; height: 20px; background-color: #ccc; border-radius: 50%; margin-right: 5px;"></div> Off </div>
Low Latency (Beta)	<div style="display: flex; align-items: center;"> <div style="width: 20px; height: 20px; background-color: #007bff; border-radius: 50%; margin-right: 5px;"></div> On <span style="font-size: 0.8em;">?</span> </div>

Create

Please note that low latency streaming is more demanding in terms of network connection stability. Fortunately, nowadays, a strong and stable internet connection is common, so assuming your target audience has access to a reasonable network connection, you can enable Low Latency streaming and lower your streaming latency, where needed, down to few seconds - typically between 2 and 8.

Please follow these guidelines to make sure you benefit from Low Latency HLS advantages on your live stream.

- Adjust the keyframe interval on your live stream to two seconds or lower .
- In case you are using custom eCDNs in your network, contact support to align on custom CDN compatibility and requirements.
- Avoid using Low Latency streaming in case your target audience has no access to a strong and stable network connection.
- Make sure to enable Low Latency for the specific event through Mediaspace, KMC or using the developer API.

