

BitGravity Live Streaming Information Guide

Version: Iris

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Configuring Live Streaming on a KMC Account Using a BitGravity Account

This article describes the required steps to create a live streaming feed inside a customer's KMC account using their BitGravity account.

The following topics are described:

- [Creating a Live Streaming Entry in the KMC \(non DVR\)](#)
- [Creating a DVR Enabled Live Streaming Entry Using the APIs](#)

Currently, live streaming provisioning using your BitGravity account can be done upon request and with the BitGravity CDN support team's assistance that will be provisioning live feeds. Each live feed represents a single bit rate live stream:

The screenshot shows the 'Live' management section of the KMC interface. It includes a table with columns: Display Name, Feed Path, Push Port, Last Seen, Width, Height, Broadcasting, and Action. Two feeds are listed: 'Kaltura Live CDG Feed01' and 'Kaltura Live CDG Feed02'. An 'Update Live Feed' dialog box is open, prompting for a new name for the live feed, with fields for 'Feed Path' and 'Feed Name'.

Display Name	Feed Path	Push Port	Last Seen	Width	Height	Broadcasting	Action
Kaltura Live CDG Feed01	/kaltura/live/cdg/live01	35879	2013-11-01 16:16:12	720	480	Enabled	[Icons]
Kaltura Live CDG Feed02	/kaltura/live/cdg/live02	35880	2013-11-01 16:16:50	720	480	Enabled	[Icons]

After live feeds are provisioned you can manage them (edit some of the settings), playback and publish URLs:

[Admin](#) > [Live](#) > [Manage](#) > [Ingest for /kaltura/live/cdg/live01](#)

Tata Communications Feed Ingest Configuration

Dashboard Account Alex.Bandel@kaltura.com

Feed Path /kaltura/live/cdg/live01

Status Enabled for 3rd Party Encoder ingest (primary/backup).

RTMP Push Configuration

Primary URL rtmp://rtmp1.cdg1.bitgravity.com:1935/rtmp/push

Stream Name Alex.Bandel@kaltura.com/37dec9e40831218e9b6dfc6a2b4285e0/kaltura/live/cdg/live01

RTSP Announce Configuration

Primary Host rtp1.cdg1.bitgravity.com:1935

Path or File Location rtsp/push/kaltura/live/cdg/live01.sdp

Username Alex.Bandel@kaltura.com

Password <the Tata Communications Dashboard password for Alex.Bandel@kaltura.com>

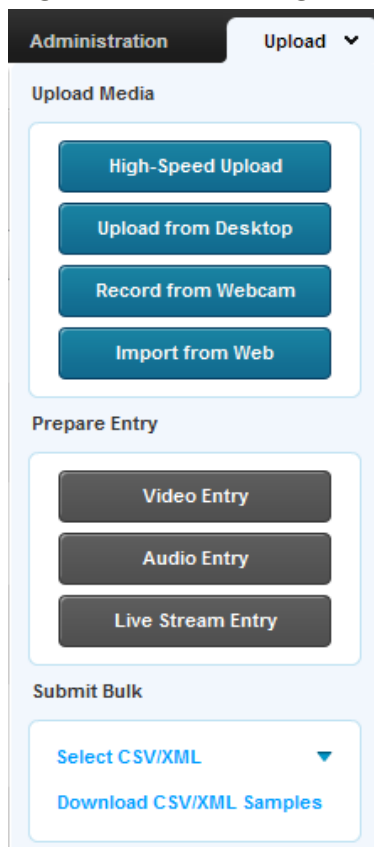
For example, for the live feed **/kaltura/live/cdg/live01** the playback URLs will be as following:

Delivery Protocol	URL Generated
RTMP	Server: <code>rtmp://kaltura.live-s.cdn.bitgravity.com/cdn-live</code> Stream: <code>/kaltura/live/cdg/live01</code>
Adobe HDS	<code>http://kaltura.live-s.cdn.bitgravity.com/cdn-live/_definst_/kaltura/live/cdg/live01/manifest.f4m</code>
Apple HLS	<code>http://kaltura.live-s.cdn.bitgravity.com/cdn-live/_definst_/kaltura/live/cdg/live01/playlist.m3u8</code>

Creating a Live Streaming Entry in the KMC (non DVR)

To create a live stream entry in the KMC

1. Login into the KMC and go to the Upload tab.



2. Select Live Stream Entry.
The Add New Stream window is displayed.

Add New Stream

Live Stream Type: Manual Live Stream URLs

Name*: Arik Test

Description: Test

Live Flash HDS stream URL: http://kaltura.live-s.cdn.bitgravity.com/cdn-live/_definst_/ka

Live Mobile HLS stream URL: http://kaltura.live-s.cdn.bitgravity.com/cdn-live/_definst_/ka

* required field

Create Live Stream

3. Select Manual Live Stream URLs.

Manual Live Stream URLs - Allows you to associate custom live end user URLs with a Kaltura entry. This option is useful if you are using a 3rd party to provision and broadcast a live stream.

4. Enter values for the following fields:

The following are the required /optional fields for the **Manual Live Stream URLs** stream type.

Field	Description
Name	Required , minimum 5 characters. The name of the stream that will appear in the KMC entries list.
Description	A description of the stream (Optional).
Live Flash HDS stream URL	Required , type URL
Live Mobile HLS stream URL	Optional type URL.

5. Fill in the values and click Create Live Stream.

Adjusting the Live Stream for HDS and RTMP Support

To modify the live stream entry in the KMC

1. Login into the KMC and go to the Settings tab.
2. Select Integration Settings to obtain the "Administrator Secret".
3. Go to the TestMe console http://www.kaltura.com/api_v3/testme/
4. Create a Kaltura Session (KS):
 - a. Select service "session", and select action "Start"
 - b. Fill in the secret (using "Administrator Secret" obtained in [step 2](#))
 - c. Enter the "userId"
 - d. Set "type" to "ADMIN"
 - e. Fill in the "partnerId".
 - f. Click Send.

The result should be a Kaltura session that is automatically copied to the "KS" field.

The screenshot shows the 'Test Console' interface with the following fields and values:

- History:** Select request (dropdown)
- KS (string):** (empty text field)
- Client Tag (string):** testme (text field with a checkmark icon)
- Select service:** session (dropdown with a help icon)
- Select action:** start (dropdown with a help icon)
- secret (string):** 69ed5c7...0d56f6e (text field with a checkmark icon and a help icon)
- userId (string):** (empty text field with a checkmark icon and a help icon)
- type (KalturaSessionType):** ADMIN (dropdown with a checkmark icon and a help icon)
- partnerId (int):** (empty text field with a checkmark icon and a help icon)
- expiry (int):** (empty text field with a help icon)
- privileges (string):** (empty text field with a help icon)
- Send** (button)

5. Copy the newly created live stream entry ID from the KMC.

<input type="checkbox"/>	Thumbnail	ID	Name
<input type="checkbox"/>		0_10vc72tc	Live Test Feed 2

6. In the [TestMe Console](#), Select service “liveStream”, and Select action “update”.
7. Copy/paste the entry id to the “entryId” field.
8. Click on the “Edit” button near “liveStreamEntry”.
9. Click Send.

Client Tag (string):
testme ✓

Select service:
liveStream ▼ ⓘ

Select action:
update ▼ ⓘ

entryId (string):
0_I0vc72tc ✓

liveStreamEntry (KalturaLiveStreamEntry):
KalturaLiveStreamEntry ▼ ✓

Buttons: Edit, Send

To adjust the livestream for HDS support

1. Under “liveStreamConfigurations array” click “Add” to add an item for live stream configuration (if you don’t see it then scroll down):

item0 (KalturaLiveStreamConfiguration): Edit Remove

KalturaLiveStreamConfiguration ▼ ⓘ

2. Edit the item (item0)
 - a. Set the “protocol” to “HDS”.
 - b. Fill the “URL” for HDS playback taken from the BitGravity dashboard (The same one that was used to create the manual live stream entry in the KMC).

To add RTMP support to the livestream

1. Enter the “streamName” with the name of the stream, taken from the BitGravity dashboard. For example: /customerid/live/feed01
2. Enter the “streamUrl” with the base URL of the stream, taken from the BitGravity dashboard. For example: rtmp://customerid.live-s.cdn.bitgravity.com/cdn-live

streamName (string):
/customerid/live/feed01 ✓

streamUrl (string):
rtmp://customerid.live-s.cdn.bitgravity.com/cdn-live ✓

Creating a DVR Enabled Live Streaming Entry Using the APIs

The Digital Video Recorder (DVR) feature provides the ability to seek within the recorded video up to 24 hours prior to your existing point of the live stream. DVR controls allow you to scrub back in time, while the live stream is still in progress, to replay a highlight or check out a clip that may have missed.

To create a DVR enabled live streaming entry using the APIs

1. Obtain an “Administrator Secret” from the KMC > Settings > Integration Settings.
2. Go to the [Kaltura TestMe Console](#).
3. [Create a Kaltura Session \(KS\)](#).
4. [Set up the liveStream service](#).

The new DVR enabled live entry is displayed in the KMC.

To create a Kaltura Session (KS)

1. In the [KalturaTestme Console](#), Select service “session”, Action “start”.
2. Enter the secret (using “Administrator Secret” described [here](#)).
3. Enter the “userId”.
4. Set “type” to “ADMIN”.
5. Fill in the “partnerId”.
6. Click Send.

The screenshot shows the 'Test Console' tab of the Kaltura Testme Console. The form contains the following fields and values:

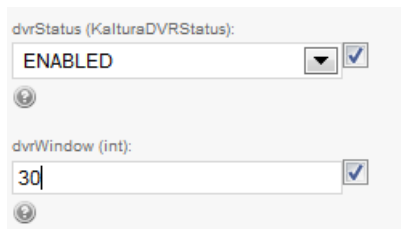
- History:** Select request (dropdown)
- KS (string):** (empty text field)
- Client Tag (string):** testme (text field with a checkmark icon)
- Select service:** session (dropdown with a refresh icon)
- Select action:** start (dropdown with a refresh icon)
- secret (string):** 69ed5c...0d56f6e (text field with a checkmark icon)
- userid (string):** (empty text field with a checkmark icon)
- type (KalturaSessionType):** ADMIN (dropdown with a checkmark icon)
- partnerId (int):** (empty text field with a checkmark icon)
- expiry (int):** (empty text field)
- privileges (string):** (empty text field)

A 'Send' button is located at the bottom of the form.

The result is a Kaltura Session that is automatically copied to the “KS” field.

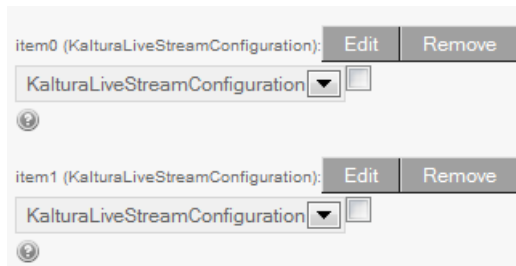
To setup a liveStream service that is DVR enabled

1. In the [Kaltura Testme Console](#), Select service “liveStream”, Action “add”.
2. Set the “sourceType” to “MANUAL_LIVE_STREAM”.
3. Click “Edit” near the “liveStreamEntry” object.
4. Enter a “name”.
5. Set “dvrStatus” to “ENABLED”.
6. Set “dvrWindow” to the amount of minutes for the recording.



The screenshot shows two configuration fields. The first is labeled 'dvrStatus (KalturaDVRStatus):' and has a dropdown menu set to 'ENABLED' with a checkmark icon to its right. Below it is a field for 'dvrWindow (int):' with the value '30' entered and a checkmark icon to its right. Both fields have a help icon (question mark) to their left.

7. Set “mediaType” to “LIVE_STREAM_FLASH”
8. Under “liveStreamConfigurations” click on “Add” twice, this adds 2 items (Scroll down if they are not visible on your screen.):



The screenshot shows two configuration items, 'item0 (KalturaLiveStreamConfiguration):' and 'item1 (KalturaLiveStreamConfiguration):'. Each item has an 'Edit' button and a 'Remove' button to its right. Below each item name is a dropdown menu set to 'KalturaLiveStreamConfiguration' and a checkmark icon. Each item also has a help icon (question mark) to its left.

- c. Edit the first item (item0).
 - d. Set the “protocol” to “HLS”.
 - e. Enter the “url” for HLS playback taken from the BitGravity dashboard.
 - f. Edit the second item (item1).
 - g. Set “protocol” to “HDS”.
 - h. Enter the “url” for HDS playback taken from the BitGravity dashboard.
9. Click Send.