

# BitGravity Live Streaming Information Guide

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Version: Hercules

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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 KMC Live Management interface. At the top, there are tabs for Statistics, Documents & Services, Reports, Media, Network Settings, and Live. The 'Live' tab is selected, and the breadcrumb is 'Admin > Live > Manage'. Below the breadcrumb, there is a pagination control showing '1 - 2 of 2' and navigation links. A 'Show Disabled Feeds' button is also present. The main table lists live feeds 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 the user to enter a new name for the live feed. The dialog contains fields for 'Feed Path' (set to '/kaltura/live/cdg/live01') and 'Feed Name' (set to 'Kaltura Live CDG Feed01'), with 'Submit' and 'Cancel' buttons.

Display Name	Feed Path	Push Port	Last Seen	Width	Height	Broadcasting	Action
Kaltura Live CDG Feed01	<a href="#">/kaltura/live/cdg/live01</a>	35879	2013-11-01 16:16:12	720	480	Enabled	
Kaltura Live CDG Feed02	<a href="#">/kaltura/live/cdg/live02</a>	35880	2013-11-01 16:16:50	720	480	Enabled	

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 [rtmp1.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>

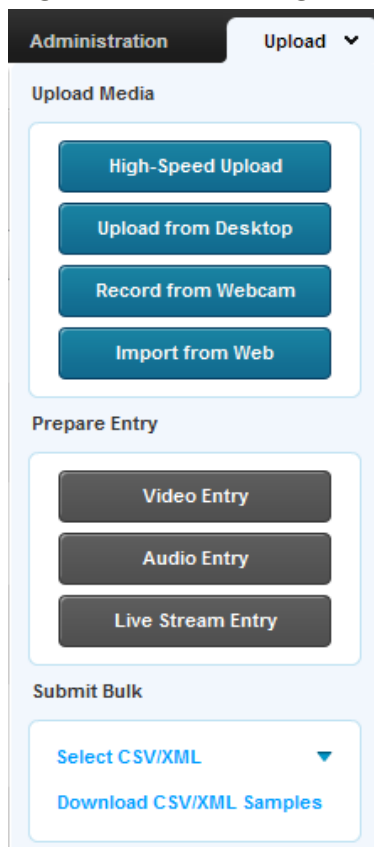
For example, for the live feed [/kaltura/live/cdg/live01](#) the playback URLs will be as following:

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 3<sup>rd</sup> 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	<b>Required</b> , 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	<b>Required</b> , type URL
Live Mobile HLS stream URL	<b>Optional</b> type URL.

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

## 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.

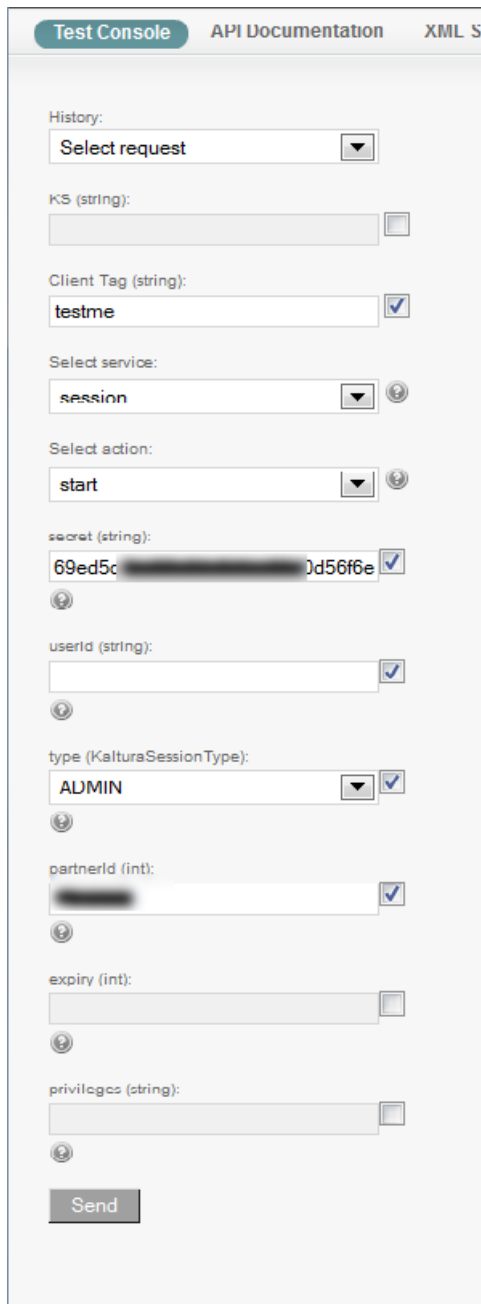
### To create a DVR enabled live streaming entry using the APIs

1. Obtain an "Administrator Secret" from the KMC > Settings > Integration Settings.
2. Go to the Kaltura TestMe console [http://www.kaltura.com/api\\_v3/testme/](http://www.kaltura.com/api_v3/testme/)
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” obtained in step 1)
3. Enter the “userId”
4. Set “type” to “ADMIN”
5. Fill in the your “partnerId”.
6. Click Send.



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):** 69ed5c...d56f6e (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)

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

## To setup a liveStream service that is DVR enabled

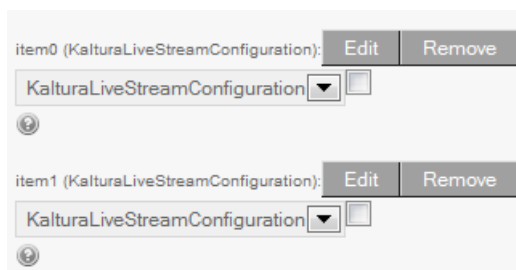
1. In the Kaltura Testme Console, select service “liveStream”, Action “add”.
2. Set “sourceType” to “MANUAL\_LIVE\_STREAM”.

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 contains a dropdown menu set to "ENABLED" with a checkmark icon to its right. Below it is a help icon. The second field is labeled "dvrWindow (int):" and contains a text input field with the value "30" and a checkmark icon to its right. Below it is another help icon.

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 a list of live stream configurations. The first item is labeled "item0 (KalturaLiveStreamConfiguration):" and has "Edit" and "Remove" buttons to its right. Below the label is a dropdown menu set to "KalturaLiveStreamConfiguration" and a checkmark icon. A help icon is below that. The second item is labeled "item1 (KalturaLiveStreamConfiguration):" and also has "Edit" and "Remove" buttons. It also has a dropdown menu set to "KalturaLiveStreamConfiguration" and a checkmark icon, with a help icon below it.

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