

# BitGravity Live Streaming Information Guide

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Version: Hercules

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





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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.

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 path is 'Admin > Live > Manage'. Below the breadcrumb, there is a 'Show Disabled Feeds' button and a search bar. A table lists two live feeds:

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	  
Kaltura Live CDG Feed02	/kaltura/live/cdg/live02	35880	2013-11-01 16:16:50	720	480	Enabled	  

An 'Update Live Feed' dialog box is open, prompting the user to enter a new name for the live feed. It contains fields for 'Feed Path' (set to /kaltura/live/cdg/live01) and 'Feed Name' (set to Kaltura Live CDG Feed01), along with 'Submit' and 'Cancel' buttons.

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
<b>RTMP</b>	Server: <a href="rtmp://kaltura.live-s.cdn.bitgravity.com/cdn-live">rtmp://kaltura.live-s.cdn.bitgravity.com/cdn-live</a> Stream: <a href="/kaltura/live/cdg/live01">/kaltura/live/cdg/live01</a>
<b>Adobe HDS</b>	<a href="http://kaltura.live-s.cdn.bitgravity.com/cdn-live/_definst_/kaltura/live/cdg/live01/manifest.f4m">http://kaltura.live-s.cdn.bitgravity.com/cdn-live/_definst_/kaltura/live/cdg/live01/manifest.f4m</a>
<b>Apple HLS</b>	<a href="http://kaltura.live-s.cdn.bitgravity.com/cdn-live/_definst_/kaltura/live/cdg/live01/playlist.m3u8">http://kaltura.live-s.cdn.bitgravity.com/cdn-live/_definst_/kaltura/live/cdg/live01/playlist.m3u8</a>

For multi bitrate live streaming you will need to combine multiple streams together and generate the manifest file (SMIL) manually in the BitGravity dashboard:

 File uploaded: </live/cdg/multibitrate.smil>

## /live/cdg/multibitrate.smil

- Universal** <http://kaltura.live-s.cdn.bitgravity.com:1935/content:cdn-live/kaltura/live/cdg/multibitrate.smil>
- HDS** [http://kaltura.live-s.cdn.bitgravity.com/cdn-live/\\_definst\\_/kaltura/live/cdg/multibitrate.smil/manifest.f4m](http://kaltura.live-s.cdn.bitgravity.com/cdn-live/_definst_/kaltura/live/cdg/multibitrate.smil/manifest.f4m)
- HLS** [http://kaltura.live-s.cdn.bitgravity.com/cdn-live/\\_definst\\_/kaltura/live/cdg/multibitrate.smil/playlist.m3u8](http://kaltura.live-s.cdn.bitgravity.com/cdn-live/_definst_/kaltura/live/cdg/multibitrate.smil/playlist.m3u8)
- HLS Roku** [http://kaltura.live-s.cdn.bitgravity.com/cdn-live2/\\_definst\\_/kaltura/live/cdg/multibitrate.smil/playlist.m3u8](http://kaltura.live-s.cdn.bitgravity.com/cdn-live2/_definst_/kaltura/live/cdg/multibitrate.smil/playlist.m3u8)
- Silverlight** [http://kaltura.live-s.cdn.bitgravity.com/cdn-live/\\_definst\\_/kaltura/live/cdg/multibitrate.smil/Manifest](http://kaltura.live-s.cdn.bitgravity.com/cdn-live/_definst_/kaltura/live/cdg/multibitrate.smil/Manifest)
- RTMP**
  - Server:** <rtmp://kaltura.live-s.cdn.bitgravity.com/cdn-live>
  - Stream:** </kaltura/live/cdg/live01> **(400kbps)**
  - Stream:** </kaltura/live/cdg/live02> **(1200kbps)**
- RTSP**
  - [rtsp://kaltura.live-s.cdn.bitgravity.com/cdn-live/\\_definst\\_/kaltura/live/cdg/live01](rtsp://kaltura.live-s.cdn.bitgravity.com/cdn-live/_definst_/kaltura/live/cdg/live01) **(400kbps)**
  - [rtsp://kaltura.live-s.cdn.bitgravity.com/cdn-live/\\_definst\\_/kaltura/live/cdg/live02](rtsp://kaltura.live-s.cdn.bitgravity.com/cdn-live/_definst_/kaltura/live/cdg/live02) **(1200kbps)**

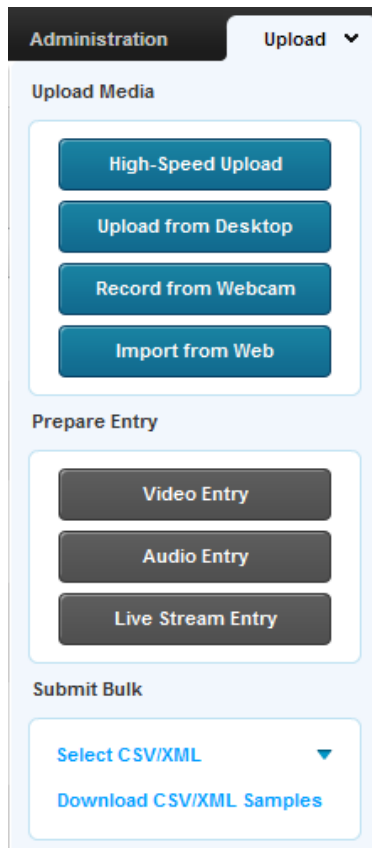
## Example SMIL File Contents:

```
<smil>
  <head>
  </head>
  <body>
    <switch>
      <video src="live01" system-bitrate="400000" width="320" height="240">
        <param name="audioCodecId" value="mp4a.40.2"
valuetype="data"/>
        <param name="videoCodecId" value="avc1.66.30"
valuetype="data"/>
      </video>
      <video src="live02" system-bitrate="1200000" width="1024"
height="768">
        <param name="audioCodecId" value="mp4a.40.2"
valuetype="data"/>
        <param name="videoCodecId" value="avc1.66.30"
valuetype="data"/>
      </video>
    </switch>
  </body>
</smil>
```

## Creating a Live Streaming Entry in the KMC

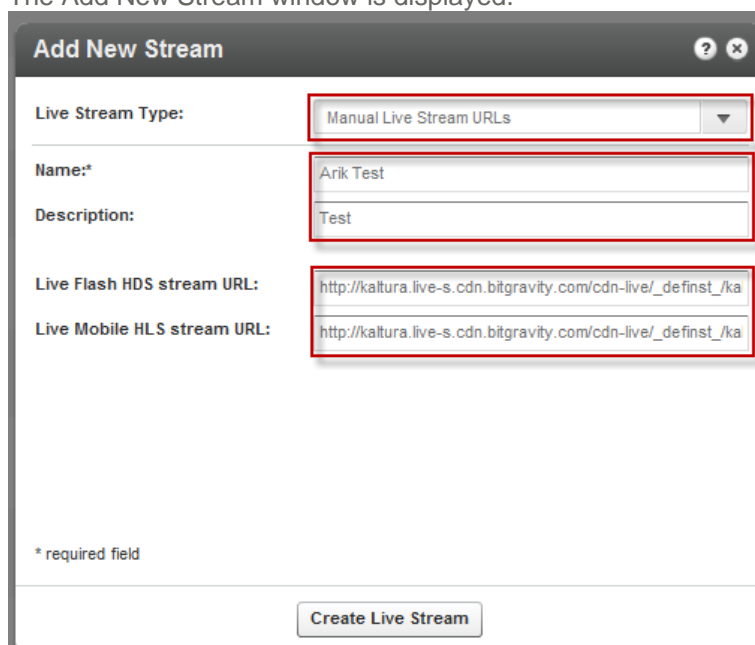
### To create a live stream entry in the KMC

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



The screenshot shows the 'Upload' tab in the KMC interface. It features a sidebar with 'Administration' and 'Upload' tabs. The main content area is titled 'Upload Media' and contains four buttons: 'High-Speed Upload', 'Upload from Desktop', 'Record from Webcam', and 'Import from Web'. Below this is a 'Prepare Entry' section with three buttons: 'Video Entry', 'Audio Entry', and 'Live Stream Entry'. At the bottom is a 'Submit Bulk' section with a 'Select CSV/XML' dropdown and a 'Download CSV/XML Samples' link.

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



The screenshot shows the 'Add New Stream' window. It has a title bar with a question mark and a close button. The form contains the following fields:

- Live Stream Type:** A dropdown menu with 'Manual Live Stream URLs' selected.
- Name:** A text input field containing 'Arik Test'.
- Description:** A text input field containing 'Test'.
- Live Flash HDS stream URL:** A text input field containing 'http://kaltura.live-s.cdn.bitgravity.com/cdn-live/\_definst\_/ka'.
- Live Mobile HLS stream URL:** A text input field containing 'http://kaltura.live-s.cdn.bitgravity.com/cdn-live/\_definst\_/ka'.

At the bottom left, there is a note: '\* required field'. At the bottom right, there is a 'Create Live Stream' button.

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.