GLOBAL LEADER IN
BROADCAST QUALITY
LIVE VIDEO OVER IP

Zixi Broadcaster

How to Send a Zixi Stream to YouTube

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Introduction

This is the procedure for setting up a stream in Zixi Broadcaster that will stream to YouTube. The procedure involves taking a source video in Zixi Broadcaster and then sending that stream to YouTube.

Prerequisites

This guide assumes you have already set up a YouTube Studio account on YouTube and that your account has been approved for live streaming (this process may take 24 hours).

Streaming to YouTube

YouTube enables you to create an RTMP or HLS stream and begin streaming immediately or create the stream and schedule the streaming to take place at a later time. The configuration of the stream involves configuring You Tube and Zixi Broadcaster in tandem, as described in the following sections.

Step 1 - Creating an input stream in Zixi Broadcaster

The Input in Zixi Broadcaster can be any of the supported inputs.

➡ **To create an Input stream:**

1. Login to **Zixi Broadcaster**.
2. In the Main Navigation menu, click the **Inputs** tab.
3. In the Menu bar, click **New Input**.
   The **Add a new input** stream window is displayed.

4. Select the type of Input based on the source stream.
5. Fill in the fields with the relevant information, see *Zixi Broadcaster User Guide*.
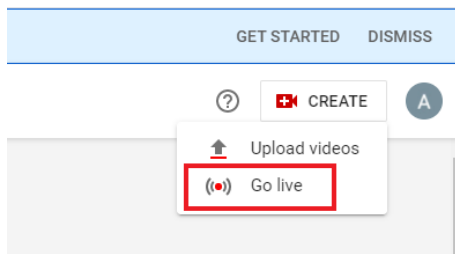6. Click **Ok**.
   The new Input is created.

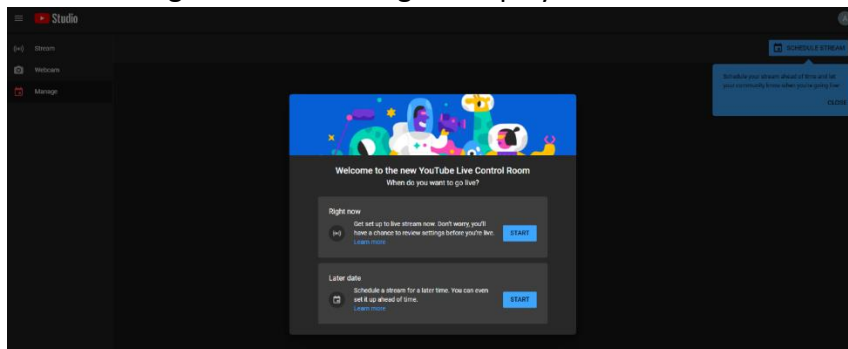# Step 2 (option a) - Setting a scheduled (Later Date) live stream on YouTube

In this option the stream will be played at a later time according to the specified schedule.

➡ **To set a scheduled live stream on YouTube:**
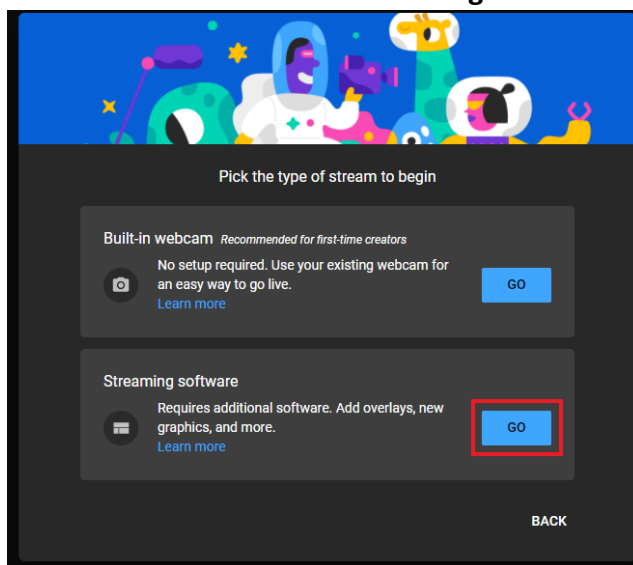
1. In **YouTube Studio**'s, at the top right corner click the **Create** button and then click **Go Live**.
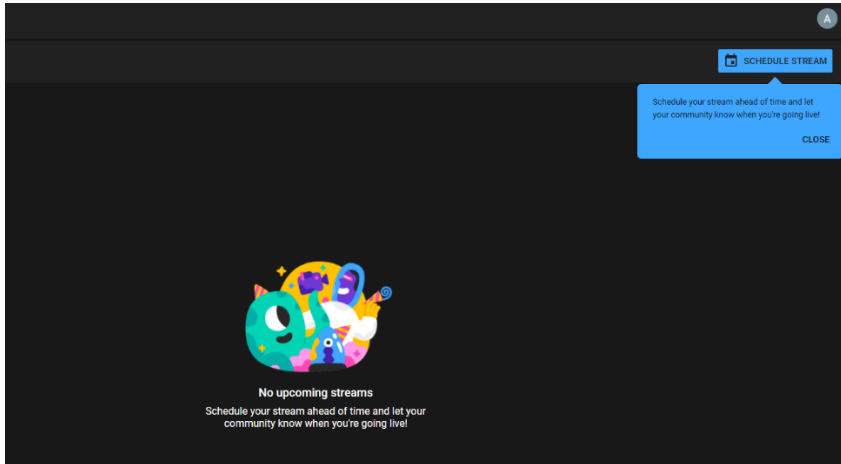

    The following welcome message is displayed:

2. In the **Later date** box, click **Start**.
3. Click the **Go** button in the **Streaming Software** box.

The following screen is displayed:
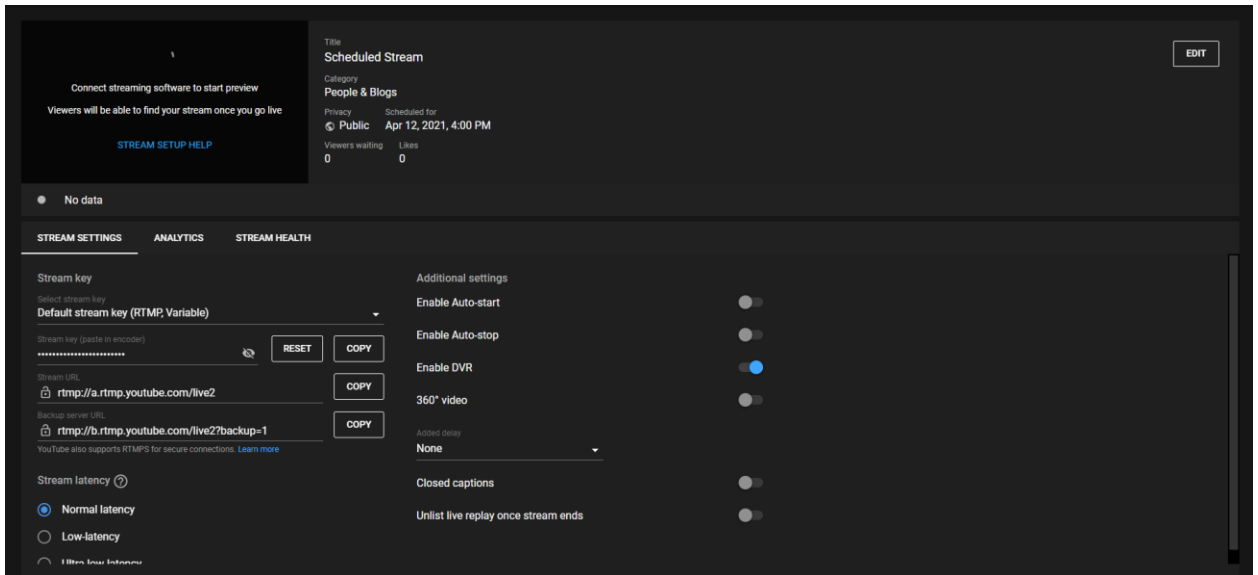

4. Click **Schedule Stream**.

The following screen is displayed:

5. Enter the stream details, including the **Date** and **Time** in which the streaming event will be scheduled to. These details are internal in YouTube and not used by Zixi Broadcaster.

6. Click **Create Stream**.
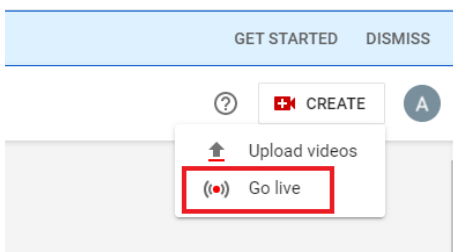
The following screen is displayed

7. At this point you will need to create the output in Zixi Broadcaster, while using the stream key and stream URL. Leave the screen open while you setup the output in Zixi Broadcaster, as described in sections **Step 3 (option a) – Creating an RTMP output in Zixi Broadcaster** or **Step 3 (option b) – Creating an HLS output in Zixi Broadcaster**.

Step 2 (option b) – Setting an immediate (Right Now) live stream on YouTube

In this option the stream will be played immediately after creating it in YouTube and creating the output in Zixi Broadcaster.

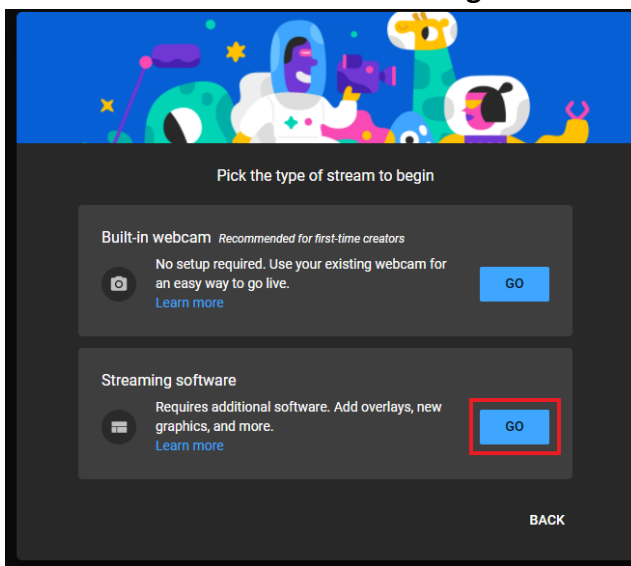➡ **To set an immediate live stream on YouTube:**

1. In **YouTube Studio**'s, at the top right corner click the **Create** button and then click **Go Live**.

The following welcome message is displayed:
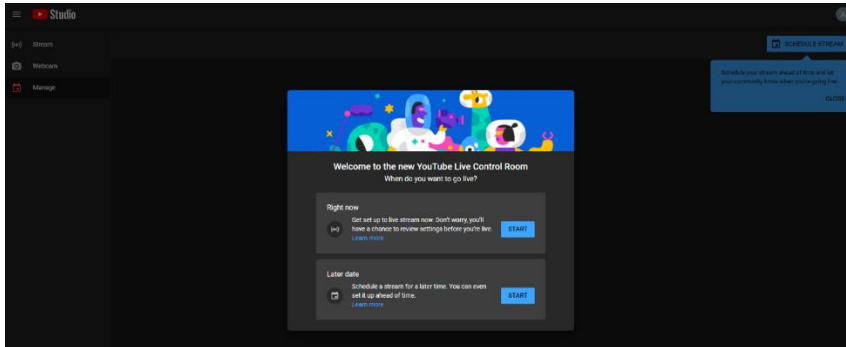
2. In the **Right now** box, click **Start**.
3. Click the **Go** button in the **Streaming Software** box.

The following screen is displayed:
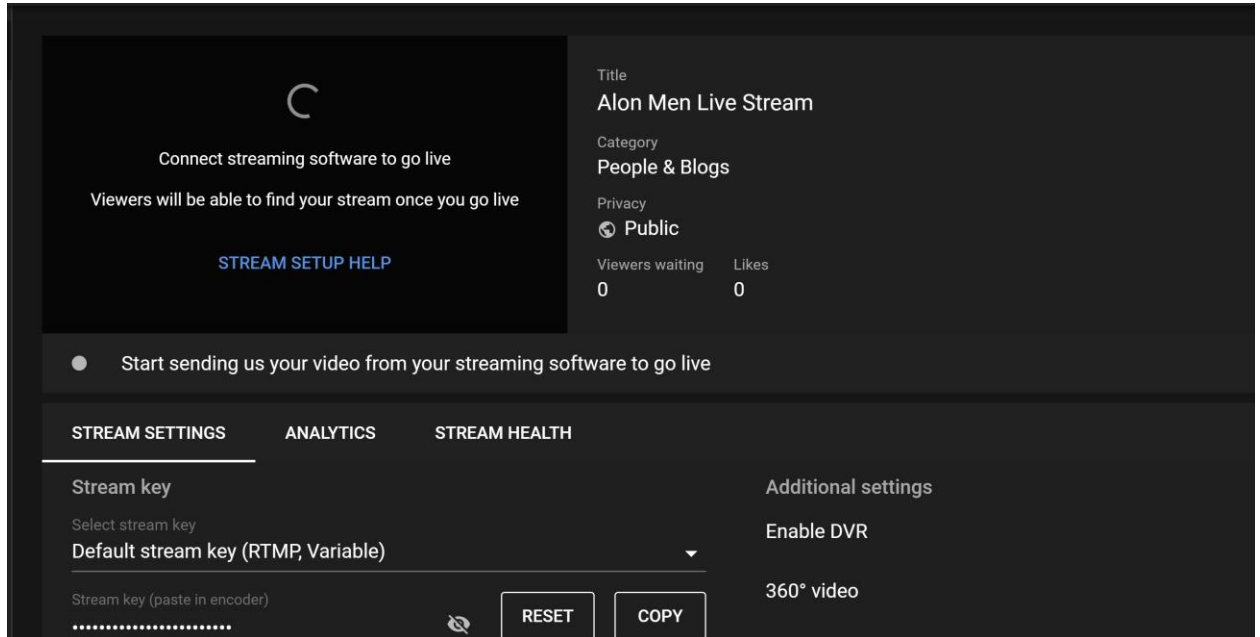
4. At this point you will need to create the output in Zixi Broadcaster, while using the stream key and stream URL. Leave the screen open while you setup the output in Zixi Broadcaster, as described in sections **Step 3 (option a) – Creating an RTMP output in Zixi Broadcaster** or **Step 3 (option b) – Creating an HLS output in Zixi Broadcaster**.

Step 3 (option a) – Creating an RTMP output in Zixi Broadcaster

➡ **To create an RTMP output in Zixi Broadcaster:**

1. On **Zixi Broadcaster**, in the **Inputs** tab, click the menu button ⚙▾ for the Input that you have created.

Status	▲ ID	⇅ Type	⇅ Source	⇅ Bitrate[kbps]	⇅ Up Time	TR 101 290	⇅ Error	⇅ Outputs	Actions ☐
🟢 Connected	Clocks	Pull	demo.zixi.com:2077	775	00:20:28	Off	None	0	⚙▾ ☐
🔴 Offline	demo	Pull	demo.zixi.com:2088	0	00:00:00	Off	No Source	0	▪ Stop
🔵 Offline	Elitest	Push		0	00:00:00	Off	None	0	✏ Edit ☐
🟢 Connected	jelly10bit	File	jellyfish-16-mbps-hd-hevc-10bit.ts	16004	215:28:59	Off	None	1	✖ Delete ☐
🟢 Connected	local	UDP	172.31.26.125:6556	16005	215:28:59	Off	None	1	⏺ Record ☐
🔵 Offline	OBSStream01	Push		0	00:00:00	Off	None	0	🔎 Analyze
🔵 Offline	WirecastStream01	Push		0	00:00:00	Off	None	0	🖥 Transcode ☐

Menu: Stop / Edit / Delete / Duplicate / Record / Analyze / Transcode / New Output / Play with VLC / Play with Flash / Play Shoutcast

2. Click **New Output**.
   The **Add new output** window is displayed with the info of your Input Stream in place.

3. Select **RTMP** for the output type.
   The window shows the fields that need to be configured for an RTMP output.

Add new output ✖

Output Name:	youtube_rtmp
Input Stream:	Clocks ▾
Show in Matrix:	☑

UDP ○   RTMP ◉   Pull ○   Push ○   TCP ○   HTTP Push ○   AWS ○   SRT Client ○   RIST ○

Output parameters

URL (rtmp://host:[port]/app):	rtmp://a.rtmp.youtube.com/live2
	rtmp://localhost/live
Backup URL:	rtmp://b.rtmp.youtube.com/live2?backup=1
Stream name:	Clocks
Username:	
Password:	
Bitrate [kbps]:	0
Reconnect [sec]:	5
Send timecode:	☐
Disconnect if inactive:	☐
Ignore TLS certificate errors:	☐

Enable decryption ☐

[Ok] [Cancel]
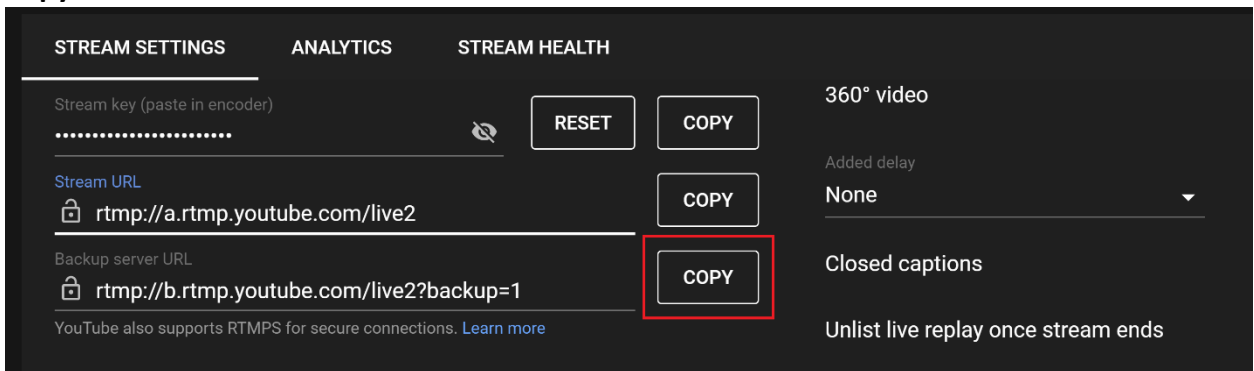
4. In the **Output Name** field, enter a unique identifier for the output.

5. On YouTube, under **Stream Settings**, in the **Stream URL** field, click **Copy**.
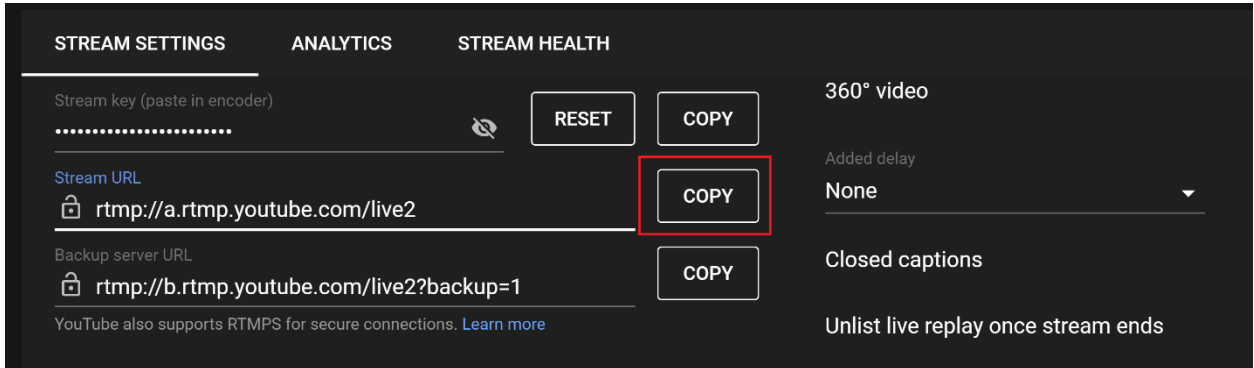
6. On **Zixi Broadcaster**, paste the copied string into the **URL** field.
7. If you want to add a backup URL, on **YouTube**, in the **Backup server URL** field, click **Copy**.

8. On **Zixi Broadcaster**, paste the copied string into the **Backup URL** field.
9. On **YouTube**, in the **Stream key** field, click **Copy**.
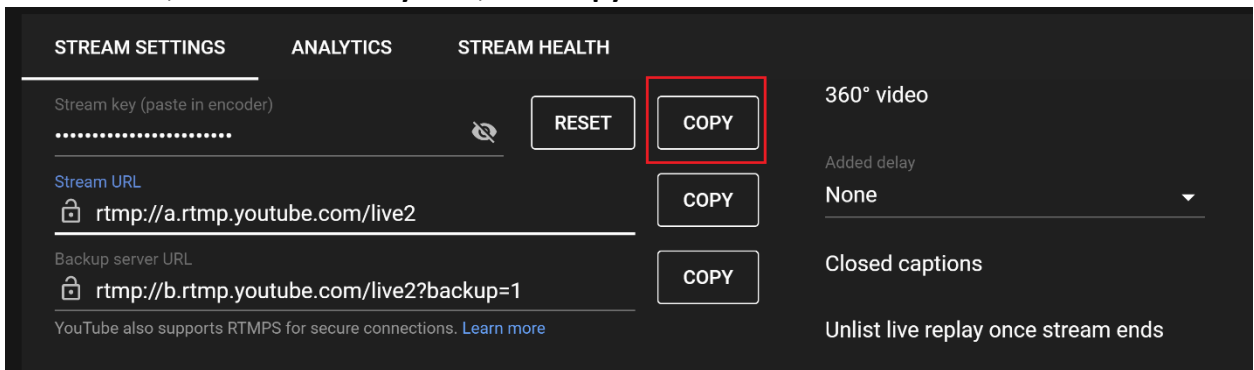
10. On **Zixi Broadcaster**, delete the existing text in the **Stream Name** field and paste the copied text, add additional stream settings as desired and click **OK**.
    If the stream connected successfully you should be able to see a preview of the stream.

Step 3 (option b) – Creating an HLS output in Zixi Broadcaster

➡ **To create an HLS output in Zixi Broadcaster:**
1. On **Zixi Broadcaster**, you will need to first create an Adaptive Group. If you have an adaptive group created, proceed to step 7.
2. In the **Adaptive** screen, click **+ Add group**.
   The following screen is displayed:

3. In the **Group name** field, enter a name for the group.
4. In the **stream ID** field, select the input stream that you would like to include in the adaptive group and specify its bitrate.
5. Click **+ Add stream** to add additional stream variants with different bitrates to the adaptive groups.
6. Click **OK**.
7. In the main menu click **Outputs**.
8. Click **+ New Output**.

9. Select the **HTTP Push** option.
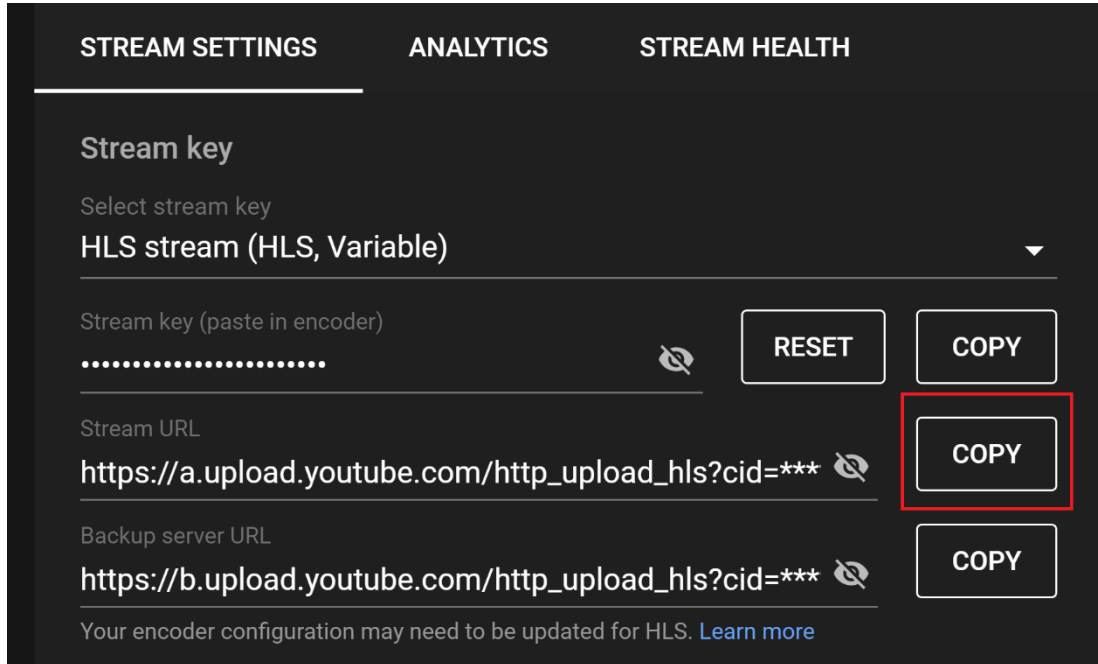   The following screen is displayed:

10. In the **Output Name** field, enter a name for the output.
11. In the **Input Adaptive Group**, select the adaptive group that you have created.
12. On **YouTube**, under **Stream Settings**, in the **Select stream key** drop-down menu, select the **HLS Stream (HLS, Variable)** option.

13. In the **Stream URL** field, click **Copy**.

14. On **Zixi Broadcaster**, paste the copied string into the **Target URL** field.
15. The string that was pasted includes the additional parameters, which belong in the **Additional URL parameters** field. From the Additional URL parameters field, Cut the string after the `http_upload_hls` (i.e. from the question mark to the end) and paste it into the **Additional URL parameters** field.
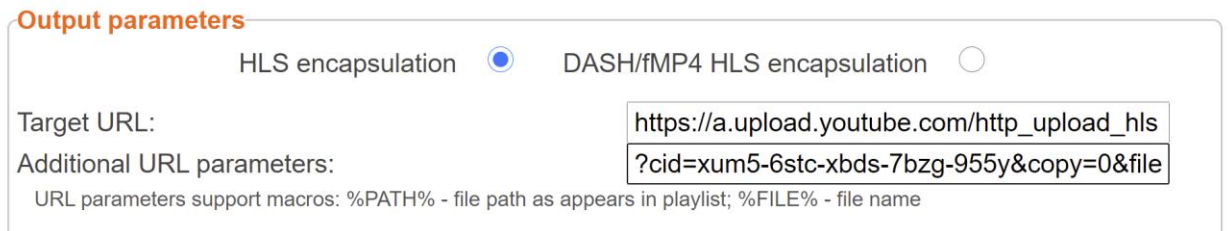
16. In the **Additional URL parameters** field, at the end of the string add the following string - %PATH% (the final string should look like this - ?cid=xum5-6stc-xbds-7bzg-955y&copy=0&file=%PATH%).
17. In the **Segment Path** field, select the **Path in parameters** option.

18. Click **OK**.
    If the stream connected successfully you should be able to see a preview of the stream.