

YouTube Live Streaming with an NCast Presentation Recorder

I. YouTube Configuration

1. Live stream availability check

Go to 'My channel' (Fig. 1 (1))

Click 'Video Manager' (Fig. 1 (2))

Click 'Channel' → 'Status and features' and check if 'Live streaming' option is 'Enabled' (Fig. 3). Click 'Enable' button if necessary

If 'Live streaming' feature is not available (marked red) there might be a problem with your YouTube account. Contact YouTube for further details.

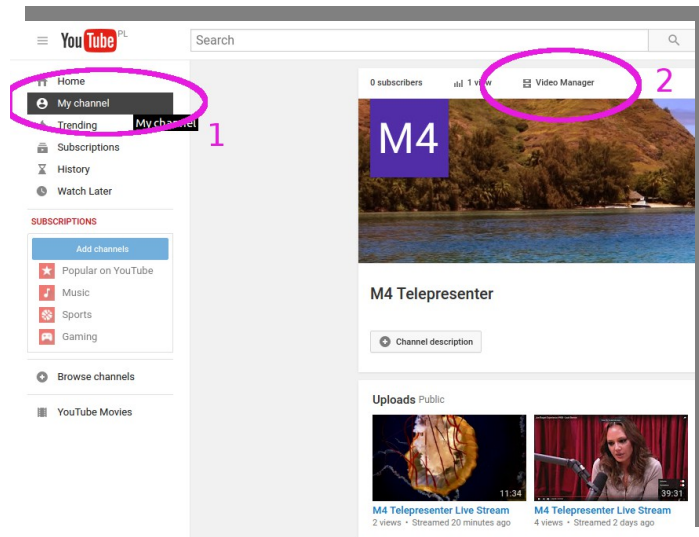


Fig. 1

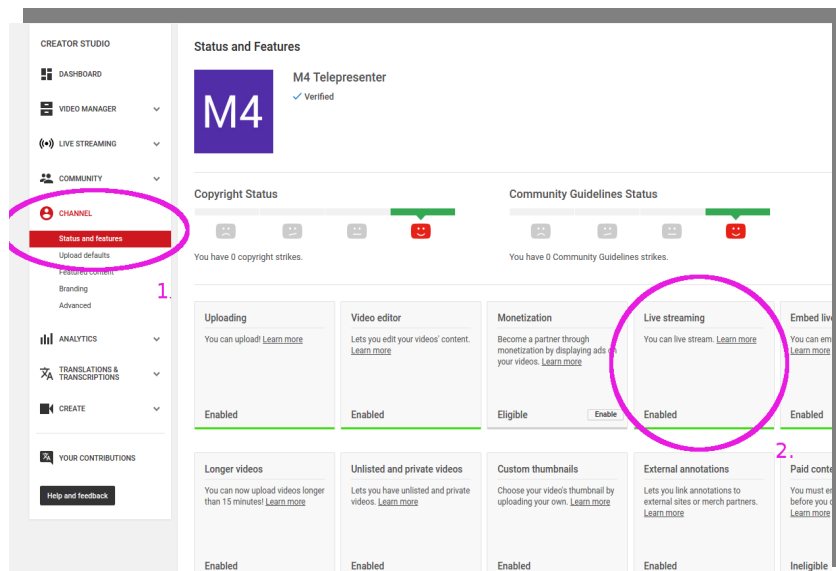


Fig. 2

2. Live stream setup

Go to 'Live Streaming' and enter stream info (Fig. 3)

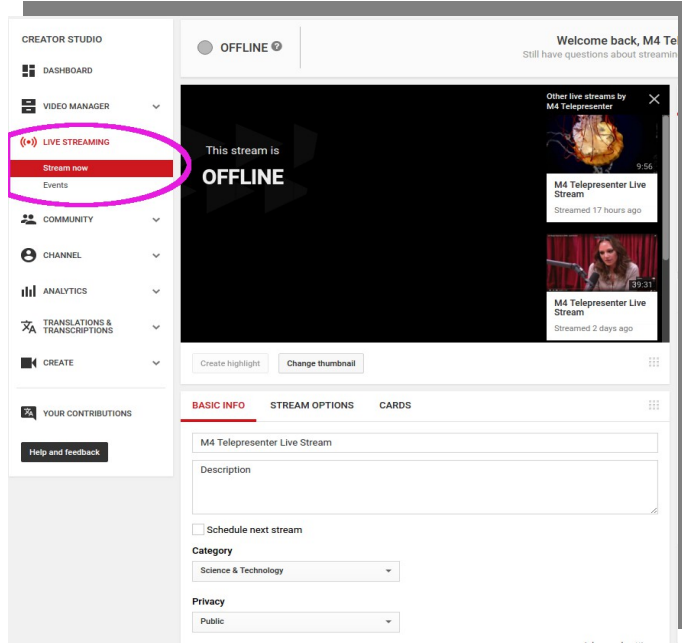


Fig. 3

We will not cover all the options and features of YouTube in this tutorial. Default settings are sufficient for starting live stream

3. Encoder configuration

Go to 'Encoder setup' (Fig. 4)

Settings needed for NCast an Presentation Recorder setup

Server URL (1)

Stream name/Key (3) (press 'Reveal' Button (2) to show key)

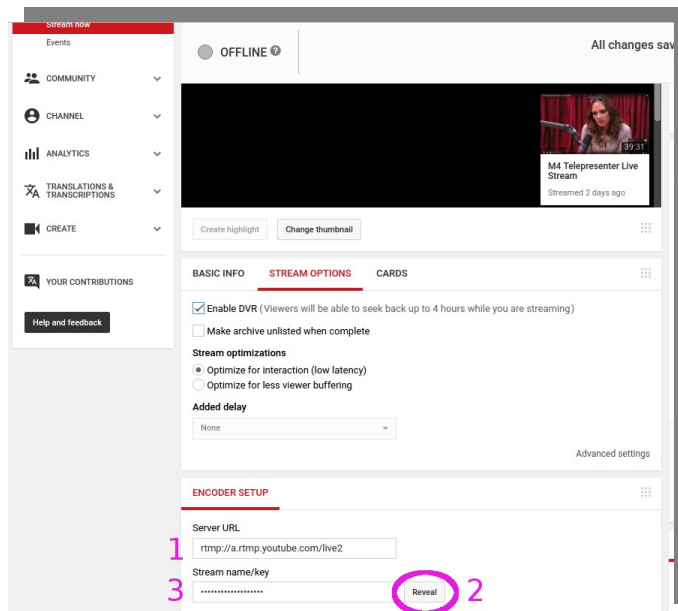


Fig. 4

II. Presentation Recorder configuration

1. Go to the 'Channels' Tab (1) and edit settings of desired channel (2) (Fig. 5)

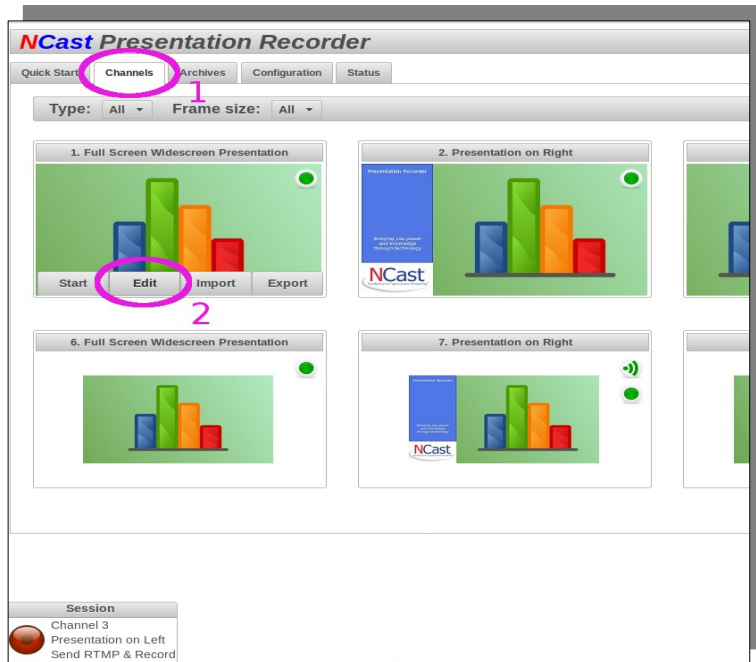


Fig. 5

2. Set channel scenario

Select 'Send stream' or 'Send stream and record to file' (Fig. 6)

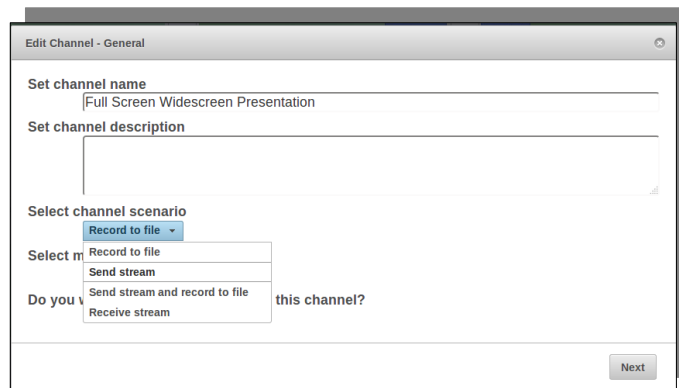


Fig. 6

3. Set encoder parameters

Resolution (Fig. 7), bitrate and framerate (Fig. 8 and Fig. 9).

Typical parameters:

720p: 30 fps, 2.5 Mbps

1080p: 30 fps, 5 Mbps

Audio: 48 kHz, Stereo, 128 kbps

Select 'Custom' to enter parameters manually (Fig. 9).

YouTube may not support all resolutions and settings. Please refer to YouTube docs to enter correct values https://support.google.com/youtube/answer/2853702?hl=en&ref_topic=6136989

Key frame interval is set to 2 seconds.

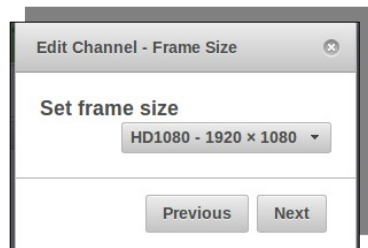


Fig. 7

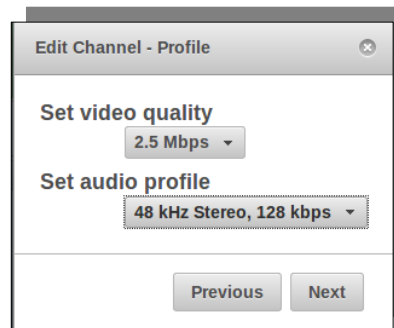


Fig. 8

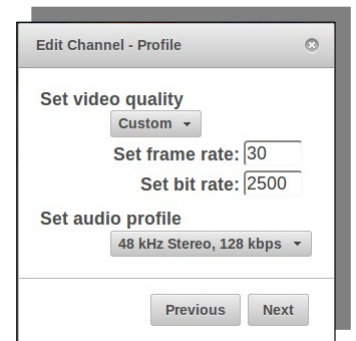


Fig. 9

4. Set stream parameters (Fig. 10)

Streaming protocol: **'RTMP'**

RTMP server type: **'Remote'**

Address: copy from **Fig. 4 (1)**

Port: **1935**

Username: blank

Password: blank

Stream name: copy from **Fig. 4 (3)**

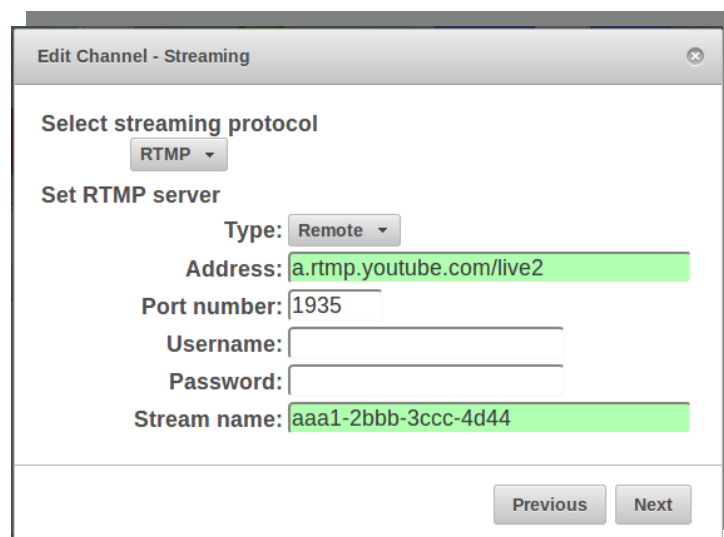


Fig. 4 (1)

Fig. 4 (3)

Fig. 10

III. Start live streaming

1. Start a live session in Presentation Recorder (Fig. 11)

- Load the channel by clicking on channel icon (1) and accept popup dialog with 'OK'
- Verify channel (2)
- Start encoder (3)

2. Verify connection status (Fig. 12)

- Green icon – Connection OK
- Red, blinking icon – Connection error

Red icon will blink while establishing connection, this is normal behavior. If it does not turn green after 15 seconds there is connection error

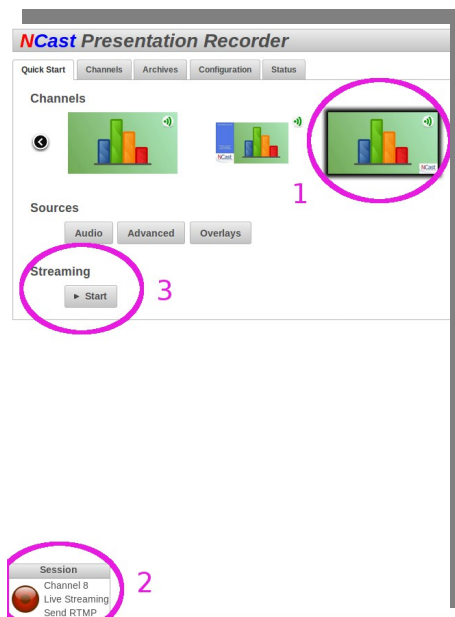


Fig. 11

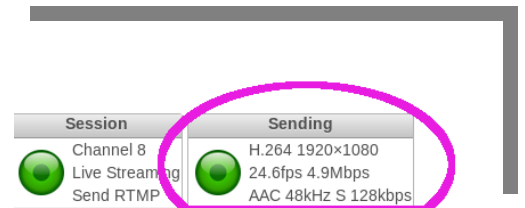


Fig. 12

3. Verify YouTube connection status

Go to YouTube Live streaming and check connection status (Fig. 13)

If connection and stream parameters are correct, green icon will appear and video preview will be available.

To get information about stream status check 'Stream Health' tab (Fig. 14)

NCast Tech Tip

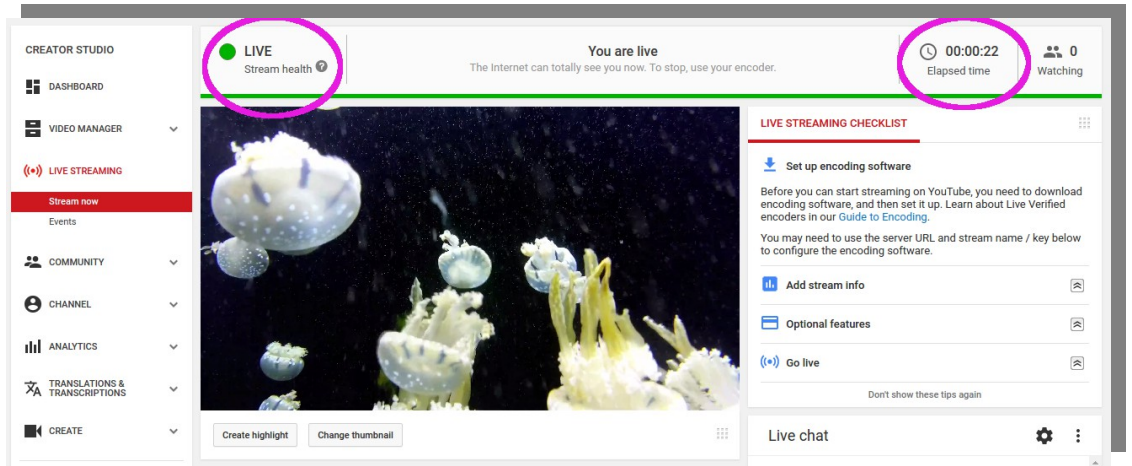


Fig. 13

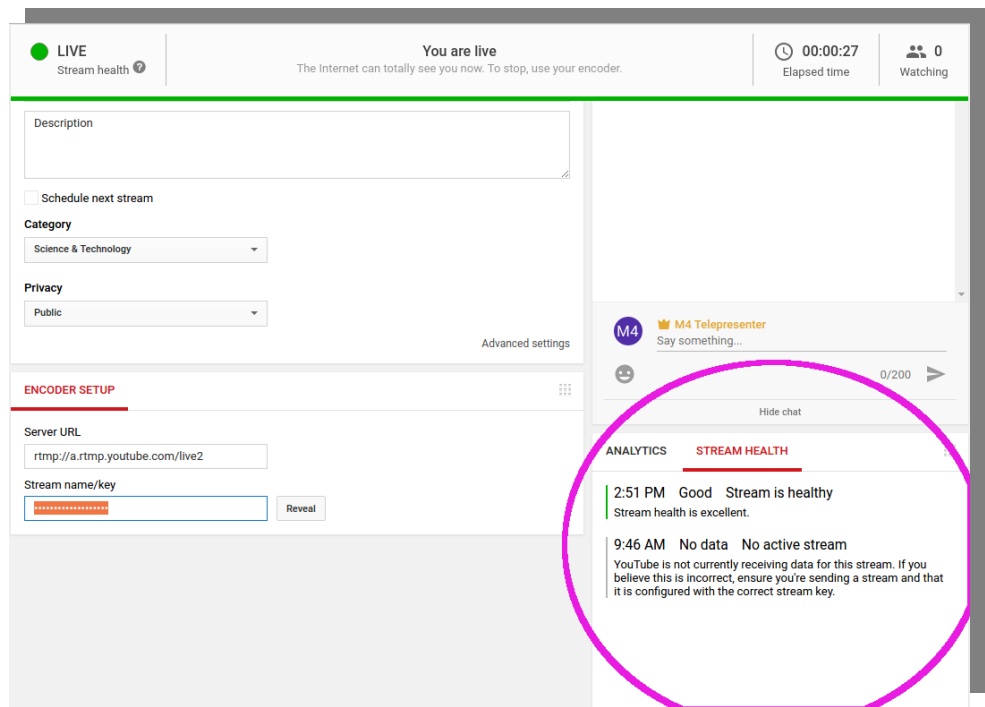


Fig. 14