

## Ustream Live Streaming with Presentation Recorder

### I. Ustream Configuration

#### 1. Live stream setup

- Go to the Dashboard (Fig. 1)
- Create a channel, if none exists yet
- Fill in all needed channel data

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

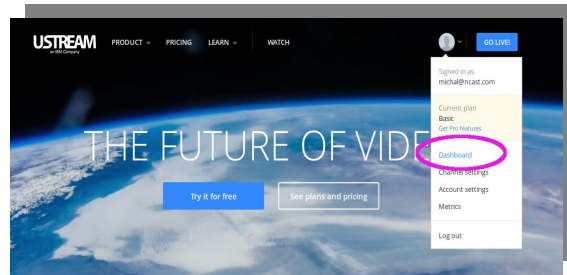


Fig. 1

#### 2. Encoder configuration

- Go to 'Broadcast settings' (Fig. 2)
- Click 'View' under 'Encoder Settings' (Fig. 2)
- Settings needed for NCast Presentation Recorder setup (Fig. 3)

**RTMP URL (1)**

**Stream Key (2)**

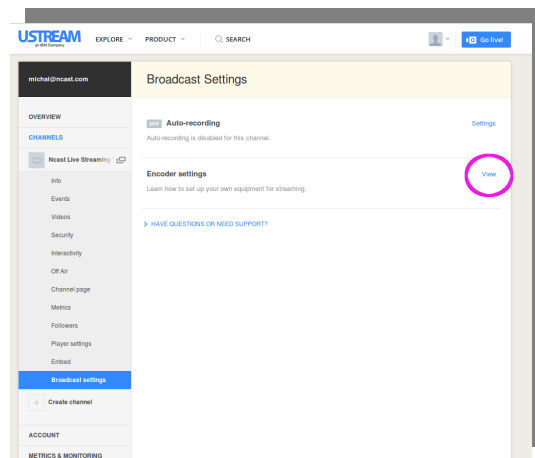


Fig. 2

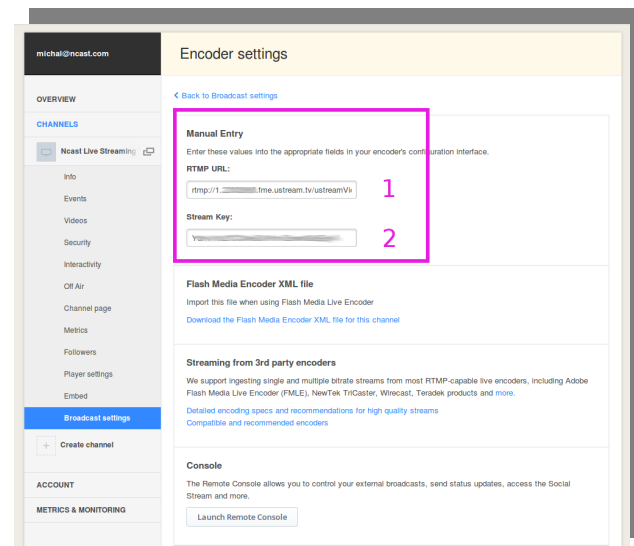


Fig. 3



www.ncast.com

NCast Corporation  
2318 Walsh Avenue  
Suite D  
Santa Clara, CA 95051  
USA  
T: 408.844.9080  
F: 408.844.9091

## II. Presentation Recorder configuration

1. Go to 'Channels' Tab (1) and edit settings of the desired channel (2) (Fig. 4)

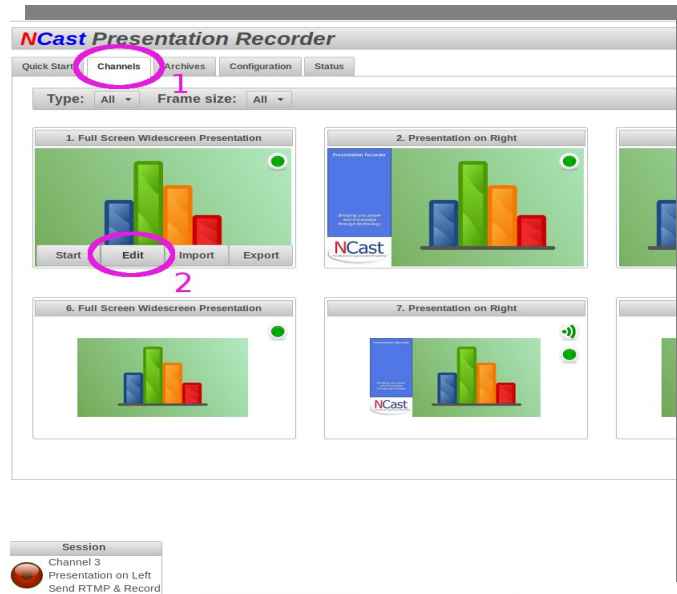


Fig. 4

2. Set the channel scenario

Select 'Send stream' or 'Send stream and record to file' (Fig. 5)

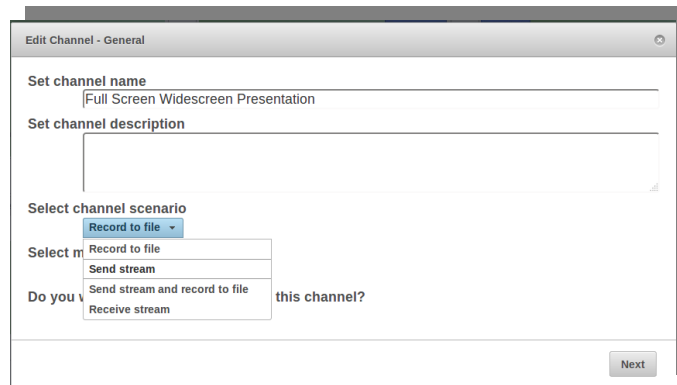


Fig. 5

3. Set the encoder parameters

Resolution (Fig. 6), bitrate and framerate (Fig. 7 and Fig. 8).

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. 8).

*Please refer to Ustream docs to enter correct values.*

*<https://support.ustream.tv/hc/en-us/articles/207852117-Internet-connection-and-recommended-encoding-settings>*

*Key frame interval is set to 2 seconds.*

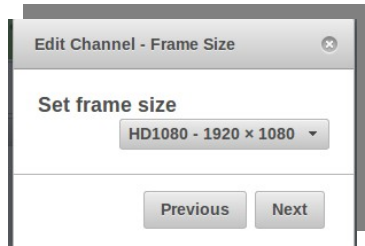


Fig. 6

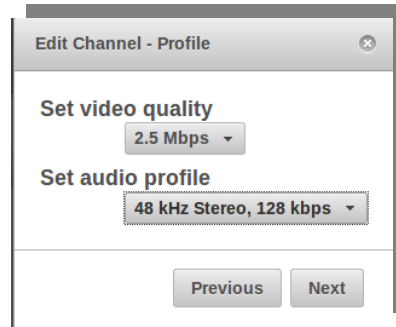


Fig. 7

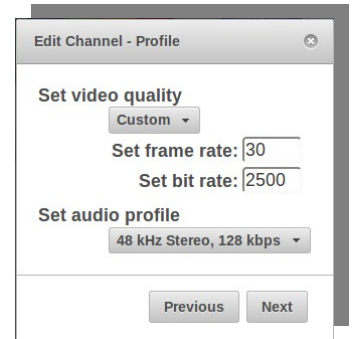


Fig. 8

#### 4. Set the stream parameters (Fig. 9)

Streaming protocol: **'RTMP'**  
 RTMP server type: **'Remote'**  
 Address: copy from **Fig. 3 (1)**  
 Port: **1935**  
 Username: blank  
 Password: blank  
 Stream name: copy from **Fig. 3 (2)**

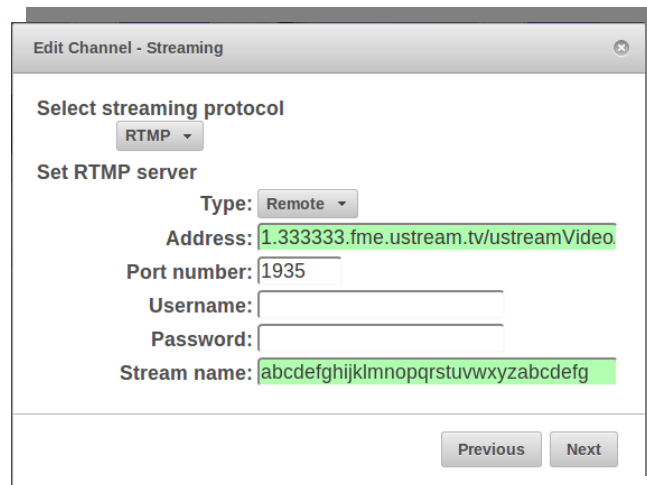


Fig. 3 (1)

Fig. 3 (2)

Fig. 9

### III. Start live streaming

#### 1. Start a live session in the Presentation Recorder (Fig. 10)

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

### 3. Verify the connection status (Fig. 11)

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*

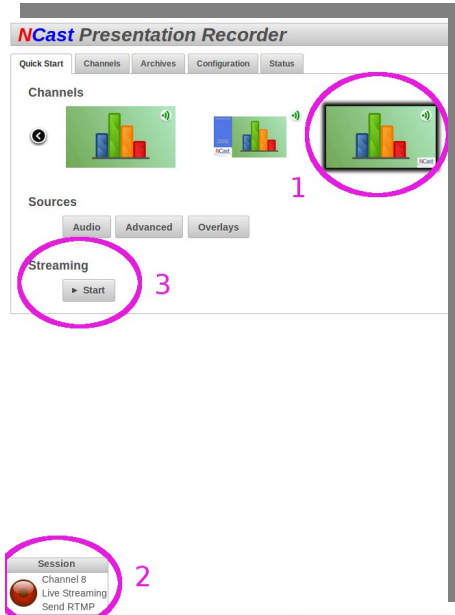


Fig. 10

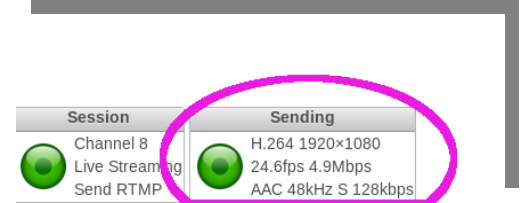


Fig. 11

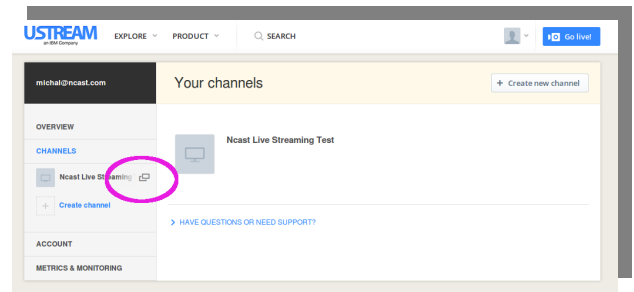


Fig. 12

### 4. Verify Ustream stream

Open Ustream channel preview (Fig. 12)

Stream preview will be available when there is connection to Ustream (Fig. 13)

'Off Air' information will be shown when there is no connection to Ustream (Fig. 14)

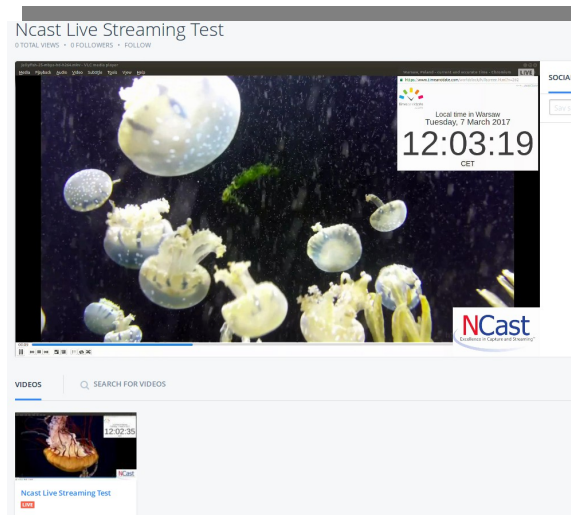


Fig. 13

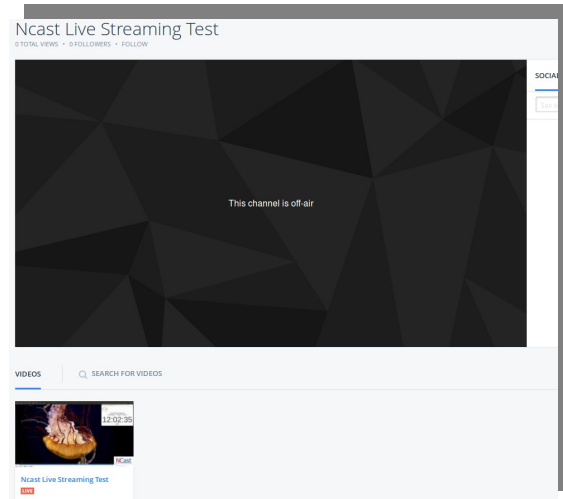


Fig. 14