

Grandstream Networks, Inc.

IPVT10

IPVIDEOTALK Cloud

Third Party Live Streaming Configuration Guide



Table of Content

INTRODUCTION.....	3
LIVE ON THIRD PARTY PLATFORM CONFIGURATION.....	4
RTMP PUSH Server Configuration	4
Nginx and RTMP module setup test.....	5

Table of Figures

Figure 1: Live to Third Party Platfrom	5
Figure 2: RTMP URL and Live Code.....	5
Figure 3: RTMP broadcast submission	6
Figure 4: RTMP Live Stream on VLC.....	6
Figure 5: RTMP Live Stream on VLC output	6



INTRODUCTION

This document describes the basic concepts and steps to live stream your meeting using RTMP protocol on third party platforms. This configuration applies for both IPVT10 and IPVideoTalk Cloud.

RTMP (Real Time Messaging Protocol) is TCP based designed for transmitting audio and video over the Internet. It is used to stream multimedia content on demand and also supports live streaming.

Clients connect to the streaming server over TCP, typically using port 1935. The RTMP maintains persistent connections allowing low-latency communication in order to deliver streams smoothly and transmit as much information as possible, it splits streams into fragments, and their size is negotiated dynamically between the client and server.



LIVE ON THIRD PARTY PLATFORM CONFIGURATION

RTMP PUSH Server Configuration

During this guide we will be using the Nginx RTMP server on Ubuntu 20 machine along with IPVT10 on premise server inside the same LAN (the same steps apply when using IPVideoTalk Cloud):

1. Starting with installing **nginx** and **rtmp** module:

```
sudo apt-get update
sudo apt-get upgrade
sudo apt-get install nginx -y
sudo apt-get install libnginx-mod-rtmp -y
```

2. Edit nginx.conf

```
sudo nano /etc/nginx/nginx.conf
```

3. Scroll down the configuration file and add bellow example lines:

```
rtmp {
    server {

        listen 1935;
        chunk_size 4096;

        application live {
            live on;
            record off;
            push rtmp://127.0.0.1:1936/live;
        }
    }
}
```

4. restart nginx server:

```
sudo systemctl restart nginx
```



Nginx and RTMP module setup test

During the active session, the host can select to share his desktop with the IPVideotalk's attendees and then the host can proceed like the following:

1. Click on  then select the option **Live to Third-Party Platform**, then **Other platforms**.

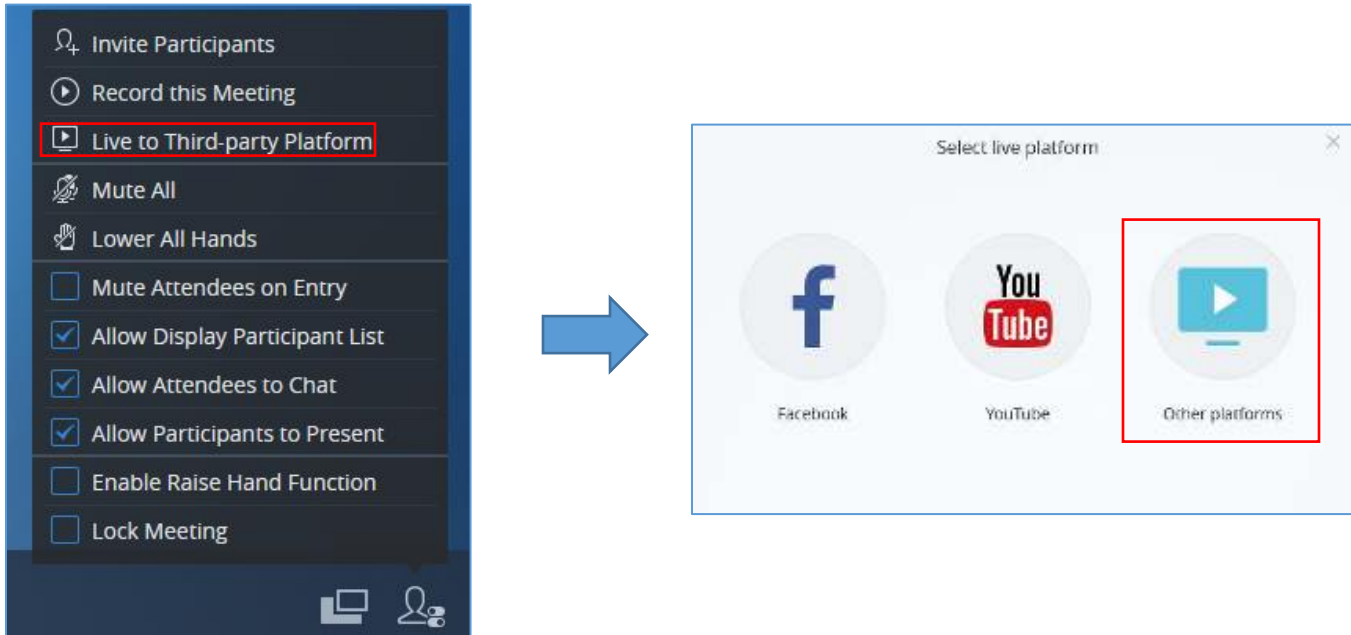
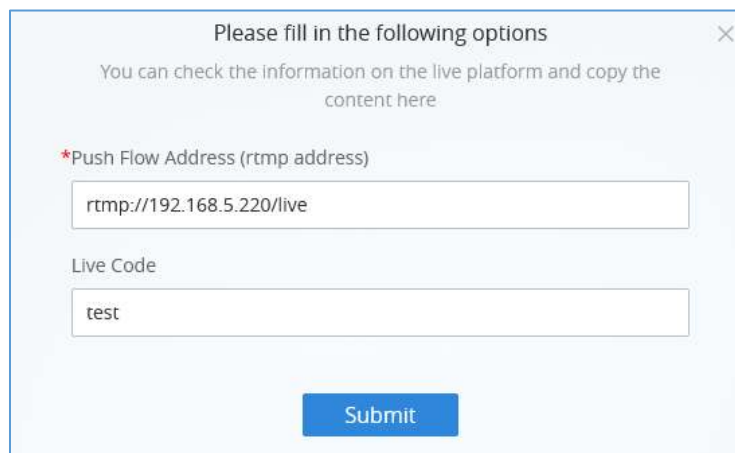


Figure 1: Live to Third Party Platform

2. Enter the RTMP's Push URL, and live code, then click submit:

In our example: Nginx server address is: 192.168.5.220.



The image shows a dialog box titled 'Please fill in the following options'. Below the title is a subtitle: 'You can check the information on the live platform and copy the content here'. There are two input fields: the first is labeled '*Push Flow Address (rtmp address)' and contains the text 'rtmp://192.168.5.220/live'; the second is labeled 'Live Code' and contains the text 'test'. At the bottom center of the dialog is a blue 'Submit' button.

Figure 2: RTMP URL and Live Code

The following message below will indicate that the operation was successful:

The Live broadcast request has been submitted, please log in to the third-party platform to view

Figure 3: RTMP broadcast submission

We will use VLC Media Player to view the RTMP live stream, so proceed as follow:

1. Open VLC Media Player and proceed to Media → Open Network Flow, and enter the following URL:

rtmp://192.168.5.220/live/test

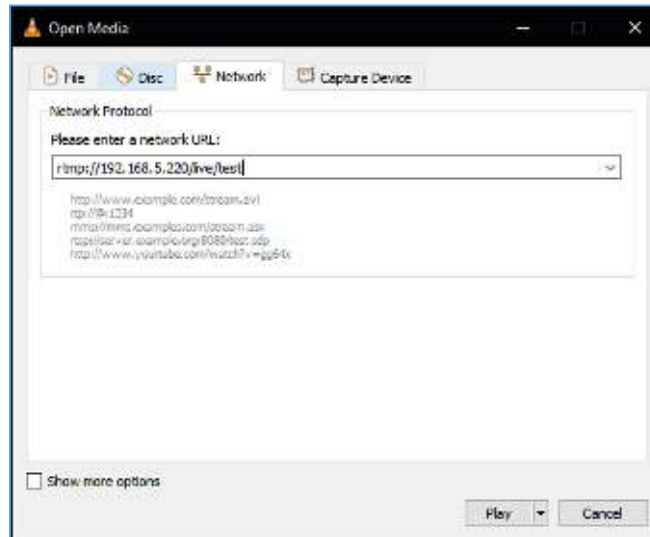


Figure 4: RTMP Live Stream on VLC

2. Click on Start so that the Live stream can start displaying:

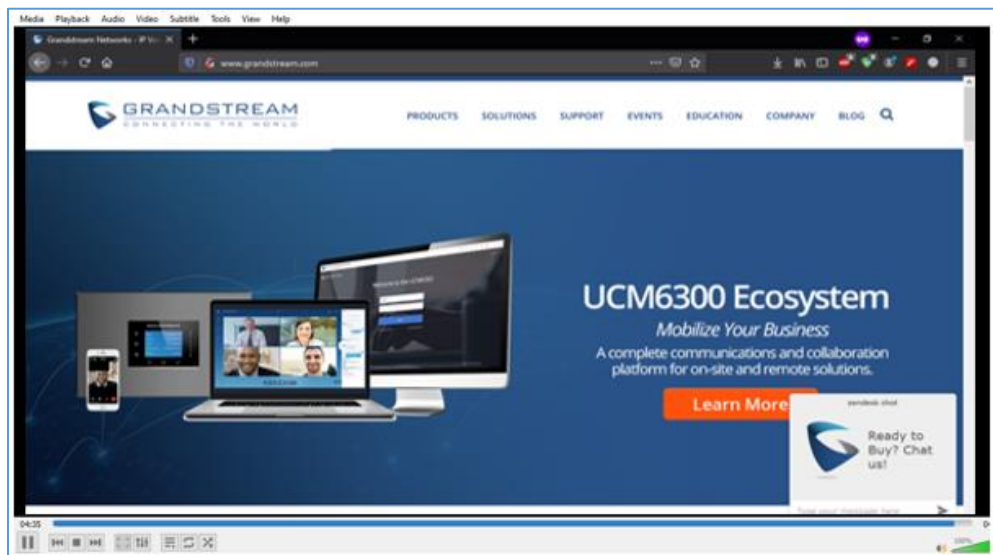


Figure 5: RTMP Live Stream on VLC output

