Run the webrtc setup

./src/stream\_send <options 1to6> <rtp port number>

This application is used to convert incoming RTP stream to webrtc stream.

There are six options we can use here

Options:

1. Using idrinsert filter:
2. Disable idrinsert filter:
3. Pass through H264 stream as it is:
4. Convert RTP to VP9/WebRTC
5. Convert MPEG4 to H264/WebRTC
6. File to WebRTC stream

On chrome:

Note:

On most of the browser H264 baseline profile is supported. To enable H264 main and high profile we need to enable hardware accelaration on chrome browser. For that we need to install gpu driver on host machine.

Also when we want to stream video to chrome browser run chrome://flags in it makesure to disable Anonymizedlocal ips exposed by webrtc.

Use case:

1. Convert RTP/H264 to WebRTC/H264 browser

We can select option 2 and 3 here.

gst-launch-1.0 filesrc location=../nature\_704x576\_25Hz\_1500kbits.h264 ! h264parse ! rtph264pay config-interval=-1 ! udpsink port=5000 host=127.0.0.1

And on second terminal run

./src/stream\_send 2 or 3 5000

And on browser run <http://127.0.0.1:57778>

This will work on H264 profile high, main and baseline.

1. Convert RTP/H264 to WebRTC/H264 browser

We need to select option 4 here

gst-launch-1.0 filesrc location=../nature\_704x576\_25Hz\_1500kbits.h264 ! h264parse ! rtph264pay config-interval=-1 ! udpsink port=5000 host=127.0.0.1

And on second terminal run

./src/stream\_send 4 5000

And on browser run <http://127.0.0.1:57778>

1. Convert MPEG4/RTP to H264/WebRTC

On one terminal use mpeg4/mp4 file to stream mpeg4 data over RTP

gst-launch-1.0 filesrc location=ducksm4v.mp4 ! qtdemux ! queue ! rtpmp4vpay config-interval=1 ! udpsink port=5000 host=127.0.0.1

On second terminal run

./src/stream\_send 5 5000

And on browser run <http://127.0.0.1:57778>

1. File to WebRTC stream conversion:

This will work only with H264/mp4 file.

Run ./src/stream\_send 6 “file\_h264.mp4”

And on browser run <http://127.0.0.1:57778>

This will test main, baseline and high profile H264 stream.