\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

We are trying to integrate the Video Bridge into one of our products via its REST interface.

https://github.com/jitsi/jitsi-videobridge/blob/master/doc/rest-videobridge.md

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

It's basically a six step process.

1) Configure and allocate channels (the videobridge uses a JSON based mechanism for setup and configuration called Colibri),

2) Create an offer for a client based on the videobridge response by translating Colibri to SDP.

3) Retrieve the answer from the client and translate that back to Colibri, getting information about codecs, ICE candidates, signatures, and so forth.

4) Update the video bridge with those details.

5) Translate the video bridge response back to SDP and send to client 6) Initiate the ICE connection process

We have code that does all of this.

Our problem is that ICE negotiation never starts on the video bridge side, and eventually times out.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

This exchange on the Jitsi developer list summarizes what we are seeing: http://lists.jitsi.org/pipermail/dev/2017-February/031688.html

I need someone who can help us sort this out. So far, the Jitsi devs have not been able to offer us anything concrete that has been able to get us past the issue.

The candidates for the problem seem to be:

\* An improperly configured video bridge (or a bug)

\* Incorrect SDP sent to the client which is resulting in the ICE session not initializing correctly

\* Incorrect patching of the video bridge

The only clients we are interested in connecting to the video bridge are browser based right now (Google Chrome, Firefox).

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1) You're sure you've got the experience to do this? 95% of this task is troubleshooting. Colibri (the video bridge API protocol) is not well documented and we've found the only real source is the Jitsi video bridge source code. The community devs are very nice, but have not been much help.

2) You're confident in your SDP skills? SDP is a terrible protocol, and the guys on my team who have dealt with it have struggled. There is a high probability that the problem is somewhere in the SDP. Are you comfortable tracking this down and recommending a fix?

If you can answer yes to both of those, I will make you an offer right now and we can get started with this.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Here's where I would like to go next.

Please start by reviewing the logs and SDP generated by our system and the videobridge.

Examples can be found at the Jitsi Dev List link I posted earlier.

I am in the process of having a public environment built which has the whole stack needed for our product. Unfortunately, it is quite complex.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*