IETF 103 - RTCWEB

Dr Alex, for the group

Present and participating (no remote)

"Usual Suspects"	"Invited Experts"	"Newcomer / firstimers"	(WebRTC) Media over QUIC
Harald A.	Jonathan L.		
Youenn F.	Jose R.	Thai students (2)	Emad O.
Alex G.	GuoWu X.	Pakistanese student (1)	Colin P.
Nils O.		Bengali rep. (1)	Tommy P.
Soares C.			HongWei G.

Projects

#1
More Tests (WPT)
Harald A.
Youenn F.
Soares C.

#2
More Tests (KITE)
Youenn F.
Jose R.

#3
Simulcast
Youenn F., Harald A.
Alex. G., Jonathan L.
Nils O.

#4
MediaSoup
Thai students (2)

#5
webrtc compilation
Pakistanese student (1)

Supervision:
Jose R and Dr Alex.

#6
Paper club:
(WebRTC) Media
over QUIC
Emad O.
Colin P.
Tommy P.
Hongwei G.
Alex G.
GuoWu X.

More Tests (WPT)

Harald A., Youenn F.

Soares C.

Results

- Moved WebRTC identity tests in a separate folder
- Move legacy APIs in a webrtc/legacy subfolder (IN PROGRESS)
- add test for basic SDP parsing.
- Found JSEP issue, reported with proposed fix
- Remove any use of legacy APIs outside of webrtc/legacy
- Clear out PR queue (6)

Results

Youenn F.

Alex G.

- KITE tutorial and dive
- Define new design to help browser vendors and JS dev to better contribute
- Specifically defined environment needs for Simulcast tests.
- Discussion about network instrumentation
    - bandwidth capacity, quality, Firewall and NAT
    - useful for ramp-up, BWE, CC, simulcast and SVC layer selection tests
    - shall it be part of a template or code (java vs JS, static vs Dynamic)

Simulcast

Youenn F., Harald A.
Alex. G., Jonathan L., Nils O.

Results

- Discussion about MID / RID / SSRC.

    - MID for m-line in SDP, maps to several SSRC in case of simulcast,

    - RID to signal "tracks" in SDP and on the wire,

    - Jonathan point: do not rewrite SSRC In the SFU, use MID on the wire.

- CoSMo: it seems that many of the RTCP feedback mechanisms are NOT implemented correctly in the case of Simulcast (FEC, RTX, NACK, FIR, …).

    - Mozilla and chrome agree.

    - Need to write a list of such packet, explicitly describe behavior, and write corresponding tests.

#4
MediaSoup
Thai students (2)

#5
webrtc compilation
Pakistanese student (1)

Supervision:
Jose R and Dr Alex.

Results

Both Student groups succeeded.

Emad O.
Colin P.
Tommy P.
Hongwei G.
Alex G.
GuoWu X.

Results

- "Real-Time Audio-Visual Media Transport over QUIC"
  Colin P, Jorg O.

- QuicTransport, QuicStream
  W3C's ORTC / WEBRTC-QUIC

- QUIC Multiplexing
  Bernard A, IETF avtcore draft