Plan to stream the MOQ WG sessions
Wed 1530 - 1700 PST
Thu 1300 - 1430 PST

All alpha stage
Lower your expectations

Please provide feedback!!!
To jcenzano@meta.com OR Slack QUICDEV-MOQ
Overview - Hardware
Overview - Software
Overview - MOQ

Encoder (moq-encoder-player)
- Javascript browser app
- WebCodecs for media processing
- WebTransport for MOQ communication

Stream
- Single video stream (NO ABR)
- Video: 854x480@30fps
- H264 - 750Kbps (KF every 2s)
  - Frame per object, object per stream
  - Group per GOP
- Audio
  - Opus - 32 Kbps (Frame 10ms)
  - Frame per object, object per stream
- LOC Container (modified)
- Draft-04

MOQT Test Ultra low latency with Webcodecs: ENCODER

WebCam(v+a) - Encode - Mux - Send - Server

Data needed

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOQT WT Relay</td>
<td>moq://moq-losangeles.jordionzano.name:4433/moq</td>
</tr>
<tr>
<td>Namespace</td>
<td></td>
</tr>
<tr>
<td>Track name (audio,video will be added)</td>
<td>20240724190846</td>
</tr>
<tr>
<td>Old Track name</td>
<td>20240724185202</td>
</tr>
<tr>
<td>Full track names (based on namespace and track name)</td>
<td>vc/20240724190846-video, vc/20240724190846-audio</td>
</tr>
<tr>
<td>Max inflight audio requests</td>
<td>60</td>
</tr>
<tr>
<td>Max inflight video requests</td>
<td>39</td>
</tr>
<tr>
<td>AuthInfo (for all tracks, shared with subscribers)</td>
<td>secret</td>
</tr>
<tr>
<td>MOQ video packager</td>
<td>Object per stream</td>
</tr>
<tr>
<td>MOQ audio packager</td>
<td>Object per stream</td>
</tr>
</tbody>
</table>

Video encoding params (h264)

- Input sources: OBSBOT Tiny 2 StreamCamera (3564:far8)
- Resolution @ fps: 854x480@30
- KeyFrame every (frames): 60
- Bitrate (bps): 750000

Audio encoding params (opus)

- Input sources: AudioBox Go (194f.040b)
- Bitrate (bps): 32000
Overview - MOQ

Relay (moxygen)
- C++
- Based on Meta prod stack
  - Proxygen, MvFst, Wangle, Fizz, Folly
- Draft-04
- NO PRIORITIES IMPLEMENTED
  - Yet!!
Overview - MOQ

Player (moq-encoder-player)
- Javascript browser app
- WebCodecs for media processing
- WebTransport for MOQ communication
- Selectable options for jitter buffer
  - From 100ms to 3s
- Plenty of stats to see if you are curious
  - Click “Show” playback stats
- No latency recovery implemented
  - No skip forward nor play x1.1
- Draft-04
Thanks to:
- IETF, NOC, Meetecho, Encore (AV Crew)
- Akamai

Note:
Low chances to work if now everybody in the room connects via IETF WiFi
(also no relay priorities implemented yet)

https://g28g.short.gy/moq120