W3C WEBRTC News

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Recent Events

Meetings at TPAC, Lyon, France
- 1 1/2 days for WEBRTC WG
- 1/2 day for Media Capture Task Force

Meeting info, agenda, presentations and notes:
http://www.w3.org/2011/04/webrtc/wiki/October_29_-_October_30_2012

40-50 participants

Disposition of CU-RTCWEB

- Proposal from Microsoft for a different API
  - More detailed control of RTP sessions
  - No use of SDP as an API component
- Discussed on WEBRTC telechat
- Poll for opinions on WEBRTC mailing list
- Rough consensus to continue with current API direction
- Resulting list of issues needed to be solved
- We are proceeding with the "JSEP" API

Major Takeaways from Lyon

- Much clarity on model achieved
- Many minor modifications proposed
  - Especially important: Offer/answer model support
- Major efforts still not incorporated:
  - Changing constraints on a MediaStreamTrack after creation
  - Recording a MediaStream
  - Model for access to info on devices not currently in use
  - API for rejecting offered tracks that receiver doesn't want

IETF actions needed (1) - critical

- Get BUNDLE settled
- SDP handling
  - Produce list of SDP extensions that MUST / MUST NOT / MAY be supported
- SDP CreateOffer to SetLocal changes
  - Produce list of things that must be changeable
  - Produce list of things that cannot be changed (W3C will add functionality to report changes that it can't support)
- Decide if Trickle-ICE is "allow", "ignore for now", or "don't know"

IETF actions needed (2) - soon

- Revise MSID proposal to use ID, not index, for tracks
- Design mechanism for per-track resolution signalling (size, framerate)
- Design signalling for max # of SSRCs in an m-line / RTP session
- Design signaling for _app_ rejecting to receive streams/tracks it does not want[*]

[*] Problematic when the offered streams/tracks are described in an answer - no (n)ack message available

IETF actions needed (3) - also do

- Design a=content signalling into JSEP (tentatively accepted at W3C)
- Signaling for pause/resume sending over network (to enhance efficiency)
- SRTP details:
  - Decide on SDES key exchange
  - Specify MTI crypto parameters
- Describe mapping of priority to effects on DSCP, congestion control and so on

Next Steps - both places

- Incorporate the API changes agreed on
- Make sure the protocols match the API (and vice versa
- Get implementations of both
- Interoperate!