

A Plan to get out of the hole

Stop Digging

Requirements

- Lots of media flows, but only a few transports flows
- Supports legacy interop with single offer/answer
- Add/remove one way video flows with minimal chance of glare on non legacy apps
- Negotiation when both ends have different capabilities
- No knowledge of other side before generating the offer
- Need uniform way to deal with new SDP parameters
- Get to few transport within one roundtrip in cases where both sides implement all the WebRTC requirement

- Can set parameters such as resolution, and perhaps bandwidth, for each Track
- Be able to identify tracks with a stable ID
- Allow different sources (cameras) to use different codecs

Plan

- Try plan A by Orlando, if can't make work, try plan B
- Try and convince WGG to come to Consensus in Orlando

Plan A - Fumble

- m-line per source (with ssrc to have multiple encoding under a m line)
- Like bundle, different candidate sets on m line
- Session level indication we do Fumble
- Write draft that analyses all 171 attributes
 - Framework for how to merge future attributes
- Get MSID finalized
- Draft with trickle stream to add/remove flows in a declarative form
 - Include receiver source selection

Plan B

- One m line for audio, one for video
- Lots of SSRC signaling under each m line
- Start work on making RFC 5576 (currently declarative) to work with offer/answer
 - needed to be able to negotiate video flows