Media Negotiation

Cullen Jennings, Sept 2011
Design Principles

1. The media negotiations will be done using the same SDP offer/answer semantics that are used in SIP.

2. It will be possible to gateway between legacy SIP devices that support ICE and appropriate RTP / SDP mechanisms and codecs without using a media gateway. A signaling gateway to convert between the signaling on the web side to the SIP signaling may be needed.

3. When a new codec is specified, the JS API specification does not need to be changed or extended. As soon as the browsers support the new codec, old applications written before the codecs was specified should automatically be able to use the new codec, where appropriate, with no changes to the JS applications.
Call from Google to Facebook

No SIP Here

Alice

Google Sig GW

Facebook Sig GW

Might be SIP here

Bob

No SIP Here

User Clicks

Offer

Offer

Offer

Inv(offer)

Offer

Offer

Offer

Offer

Offer

Offer

Update(offer)

add video

add video

GLARE
Requirements

- Be able to pass SDP offer / answers

- Be able to indicate context of interpreting SDP as offer or answer and what other pair it maps to

- Be able to tie the SRTP crypto to the identity of who you are talking to

- Be able to deal with SIP two phase media commit 180 / 200

- Be able to signal errors in SDP interpretation and glare

- .... and a bunch more along these lines .....
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