RTCWeb Transport status

July 22, 2014

Changes since April 25

- Added prioritization section
  - Contains DSCP language (ref to tsvwg docs)
  - Contains some SCTP language
- Changed TCP candidates from MAY to MUST
  - Consensus of room at IETF in London, not challenged on list

Planned changes

- Reworded introduction
- Removed all references to "WebRTC". It now uses only the term RTCWEB.
- Addressed a number of clarity / language comments
- Rewrote the prioritization to cover data channels and to describe multiple ways of prioritizing flows
- Made explicit reference to "MUST do DTLS-SRTP", and referred to security-arch for details

(these were actually made in an editor's copy, but were not published before this meeting. Will be published shortly)

- Reference draft-hutton-httpbis-connect-protocol if consensus to do so

Prioritization

- General principle: Under congestion, a priority level is a factor of 2 in data volume
- MediaStreamTracks and DataChannels are all counted as equivalent "streams"
- Leave browser to decide which packets to send
- Description uses leaky buckets. Implementations shouldn't.

Multiplexing - Bundling

- Receiver must accept all configs
- Required configurations (sender)
  - Fully bundled
  - Bundled per media type (data counted as a type)
  - Fully unbundled (data on its own transport)
- All data is always carried in one transport
  - For the odd cases where something else is needed, use more PeerConnections

Questions?