RTC-Web
Non Media Data Transport

IETF 81

Cary Bran
Cisco Systems

Matthew Kaufman
Skype

Non-Media Data

A combined view of:

- draft-cbran-rtcweb-data
- draft-kaufman-rtp-compatible-data

Common Themes:

- Desirable to share single UDP port
- Clients implement TRFC-SP [RFC4828] for coarse-grained congestion control
- Datagrams cannot be misinterpreted as: RTP, RTCP or STUN
- Run over UDP or DTLS

Protocol: Prepended Single-Byte Header

- Send Value: 62, Acknowledgment Value: 63*
- Alternative: 0

Non-Media Data

Why not DCCP over UDP?

- No mature user-side DCCP implementation
- Broad spec with lots of options, may be overkill for the problem we are trying to solve
- Bran draft proposes a lightweight implementation but uses congestion control designed for DCCP

- Open issue?

Non-Media Data

Security Considerations:

- Contents of datagrams SHOULD be encrypted
- Datagram recipients MUST be willing and verified (via ICE) before senders can transmit

Non-Media Data

Possible options for RT Non-Media Data

- Do it in V.1
- Don't do it in V.1 and do it in V.2

Proposal is to merge the drafts as a 01 version of draft-cbran-rtcweb-data and adopt it as a group working document

The merged document will:

- Add the constraint cases (Kaufman)
- Add security considerations (Kaufman)