

Support of mutiple RTP streams

draft-ietf-avtcore-multi-media-rtp-session-03

draft-ietf-avtcore-rtp-multi-stream-01

draft-ietf-avtcore-rtp-multi-stream-optimisation-00

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Changes from previous versions

- Document reorganizations:
 - Created a new draft defining RTCP reception report grouping mechanism, draft-ietf-avtcore-rtp-multi-stream-optimisation (moved out of rtp-multi-stream)
 - Moved sections on timing out RTCP and tuning RTCP from multi-media-rtp-session to rtp-multi-stream
- No major technical changes

Open issues

- None of the open issues from the last IETF have been resolved...
- Some of them need analysis / simulation

Open issue: RTCP Scheduling

- RTCP scheduling issues when sending from multiple sources in one compound packet
 - How should you calculate your transmission timing?
 - Single timer with interval based on your number of sources, or multiple timers?
 - Are these equivalent, given timer randomization?
 - Does report grouping complicate this?

Open issue: avg_rtcp_size

- How should compound RTCP packets with multiple senders affect RTCP's avg_rtcp_size calculation?
 - Is this in fact a bug in RFC 3550?

Open issues: RTCP sending exception

- Does the “you can send RTCP immediately on joining” RTCP timing exception for unicast need to be weakened for sessions with lots of sources?
- Early synchronization is important for early active senders; less important for sources not sending yet.

Open issues: SDP

- How should we signal the use of reporting groups in SDP?
- Probably will be straightforward, but needs to be defined.
 - In offer/answer, can only use if agreed by both parties.
 - With BUNDLE, must be consistent across session.

Other changes to be made

- Align terminology with RTP Taxonomy draft