
Audio/Video Transport Working Group

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Stephen Casner -- *Packet Design*, casner@acm.org

Colin Perkins -- *ISI*, csp@isi.edu

Mailing list: avt@ietf.org (*New!*)

Wednesday Agenda

- Introduction and document status 20
- RTP spec/profile to Draft Std 20
- RTP/RTCP port sharing / NAT compatibility 20
- Datagram Control Protocol 15
- RTCP extension for SSM sessions 15
- SRTP and Key Management 20
- Update of RFC 2250 (MPEG-1/2) 15

Thursday Agenda

- RTP profile for RTCP-based feedback 15
- RTP retransmission framework 15
- Payload format for phonemes/animation 15
- Payload format for timelined static media 15
- Payload format for Dist. Speech Recog. 15
- Payload format for EVRC speech 15
- Payload formats for MPEG4
 - » Multiple Sync Layer streams 15
 - » Simplified Elementary Streams with no SL 15
- Payload format for error resilient prog. med. 15

AVT Drafts in Process

- RFCs recently published:
 - » Loss-Tolerant Format for MP3 Audio (RFC 3119)
- Drafts awaiting publication:
 - » RTP Testing Strategies — with RFC editor
 - » RTP payload format for AMR/WB audio — with AD
 - » Payload formats for DV audio & video —
audio draft revised, video has dangling reference

Changes to DV Audio Payload

- Specify handling of audio error values
0x800, 0x8000 , 0x80000
- Specified which channel combinations
DV systems allow for each encoding
- To avoid need for quoting in MIME:
 - » emphasis value 50/15 changed to 50-15
 - » channel-order value uses period not colon

Ready for WG Last Call?

- Comfort Noise (draft-ietf-avt-rtp-cn-03)
 - » Specified that RTP clock rate of static PT 13 is same as for previous packet
- Tunneled CRTP (draft-ietf-avt-tcrtp-04)
 - » Now says compression methods other than CRTP may be used; fixes references to companion documents
- Enhanced CRTP
(draft-ietf-avt-crtp-enhance-02)

Revisions to Enhanced CRTP

- Trimmed to minimum extensions needed for TCRTP:
 - » Improved introduction/motivation
 - » Removed ACK mode and ACK packet
 - » Removed IP ID from HDRCKSUM
 - » Removed negative cache flag
- Will proceed to Proposed Std without going to Draft Std on RFC2508 first

FYI: drafts not being presented

- Call for RTSP over HTTP (→ MMUSIC)
draft-gentric-avt-rtsp-http-00.txt
- MIME subtypes for JPEG 2000
draft-singer-jp2-01.txt
 - » Overlap with MPEG-4 MIME subtypes?
- MIME subtype for Ogg bitstream format
draft-walleij-ogg-mediatype-03.txt
 - » Add note about separate MIME for RTP?

Interop Matrix: RTP Spec

- Interop matrix for RTP spec is 100%
 - » SDES PRIV - Magnus Westerlund tested w/ RAT
 - » BYE with multiple SSRC - done
 - » Reverse and BYE reconsideration - Magnus and Colin implemented and tested
 - » RTCP member timeout - done

Clarifications in RTP Spec

- From last meeting:
 - » SDES CNAME goes in only one part when RTCP is split for partial encryption
- Questions during interop completion:
 - » avg_rtcp_size includes UDP and IP headers
 - » Procedures for updating of avg_rtcp_size and senders variables during BYE reconsideration

Recent Questions on RTP Spec

- Clarify only one compound RTCP sent per interval, and round-robin through excess sources if they don't all fit
- Audio jitter calculation is not accurate for variable-duration packets; Amos Guler suggested redefining packet “sending time” to be RTP timestamp plus packet duration

Opinions???

Interop Matrix: A/V Profile

- Added back payload formats G723, GSM-EFR, H263 (1996), MP2T
- Clarifications:
 - » Added references to rtp-mime draft for all the payload formats that have optional parameters defined there
 - » Marker bit for audio is set only when packets are intentionally not sent during silence

RTP-MIME Draft

- Added maxptime parameter
- Added G726-40, -24; G729D, E
- Added channel-order parameter for L16 (from the DV Audio draft)
- Defined a syntax for embedded MIME content-types to specify dynamic payload type mapping for RED
- Allison requested summary MIME list

RTCP-BW Draft

- Clarified that bw may be set higher than 5% as well as lower
- Clarified that bw limit applies to all RTCP packet types, not just SR and RR
- Updated note about conflict with SDP spec to say that sdp-new draft has made the necessary change

Proposed Schedule

- Now:
 - » Prepare the RTP advancement request and interop statement
- Next week, when I-D desk opens:
 - » Submit revised RTP spec and rtp-mime draft, request IESG last call on:
 - RTP draft-ietf-avt-rtp-new-11.txt
 - Profile draft-ietf-avt-profile-new-11.txt
 - MIME registrations draft-ietf-avt-rtp-mime-06.txt
 - SDP RTCP BW modifiers draft-ietf-avt-rtcp-bw-04.txt

Presenters Please Note!

- For those who didn't provide slides yet:
 - » Have your laptop ready (full screen)
 - » Please send your slides to the chairs for inclusion in the minutes ('97 if in ppt)
- Starting your presentation, please say if:
 - » There is IPR associated with your draft
 - » Your draft is *not* offered in accordance with Section 10 of RFC 2026