Audio/Video Transport Working Group

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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