Audio/Video Transport Working Group

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Wednesday Agenda (1)

- Introduction and document status 10

- New payload formats
  - SMPTE 292M 10
  - EVRC speech 10
  - Discussion 10

- Payload format for AMR
  - Error-tolerant RTP payload format for AMR 5
  - RTP payload format for AMR (merged) 5
  - Discussion 10
Wednesday Agenda (2)

- **RTCP backchannel / RTP retransmission**
  - Concepts and message timing rules 10
  - Low-delay RTCP for backward messages 10
  - Payload format for selective retrans. 10
  - Discussion 10

- **RTP spec/profile to Draft Std**
  - Congestion control in RTP 10
  - Interoperability testing 10
Thursday Agenda (1)

- **Header compression/multiplexing** 10
  - CRTP extensions
  - CRTP over PPP negotiation
  - Tunneling multiplexed CRTP

- **Payload formats for unequal error protection** 10
  - Erasure-resilient progressive multimedia
  - Generic FEC with ULP

- **Transport of meta-info with RTP streams** 10
  - Payload format for Payload Meta-Information
  - Payload format for Program Queues
Thursday Agenda (2)

- **RTP encryption and authentication**
  - Security requirements in 3G networks 10
  - RTP encryption for 3G networks 10
  - Secure RTP 10
  - Discussion 10

- **Payload format for MPEG4**
  - Introduction 5
  - New draft-gentric-avt-rtp-mpeg4 10
  - Discussion 10

- **Action items** 5
Please Note!

● Please send your slides online to chairs for inclusion in the minutes
● When making 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
RTP Drafts in Process

● RFCs recently published:
  » RTP MIB (RFC 2959)
  » Parity FEC MIME registration (RFC 3009)
  » MPEG-4 Audio/Visual Streams (RFC 3016)

● Drafts awaiting publication:
  » Payload formats for DV audio & video
    (IESG asked for text clarification → Casner)
  » Payload format for G.722.1

● WG last call
  » Loss-tolerant MP3 audio - some comments
Drafts Ready for Last Call

- RTP Testing Strategies
draft-ietf-avt-rtptest-04.txt

- RTP Payload for Comfort Noise
draft-ietf-avt-rtp-cn-01.txt

⇒ Yell if backward compatibility problems
Status of RTP

- No changes in RTP spec, profile and companion drafts since last meeting
- Issues to resolve:
  - Congestion Control wording
  - Completion of interop matrix
- WG Last Call completed in Nov. 1999, but need another one
Congestion Control in RTP

IESG: Other protocols are required to have congestion control, why not RTP?

● RTP spec:
  » Congestion control is required, but different from TCP
  » Context dependent, SHOULD be specified in profiles

● A/V Profile (text thanks to Mark Handley):
  » With QoS, monitor to ensure service was received
  » If best-effort, monitor loss and adapt or stop if average throughput is more than what TCP would get

Is this text sufficient / acceptable / appropriate?
Discussion on Mailing List

- RTP should not be fair to TCP
- RTP won’t get past IESG without it
- Need a reference to algorithm or numbers
- TFRC was the model, but shouldn’t be mandated
  » We could refer to TFRC, but will that be an RFC soon enough?

(*Half: says too little; other half: says too much*)
Meeting Actions (1)

- RTP spec, Profile to Draft Standard
  - Congestion control wording mostly as is, with small revisions to address comments from Area Directorate
  - Non-interopced features to be removed
  - Do WG Last Call again
Meeting Actions (2)

● Issue WG last call on Comfort Noise payload
  ➔ Yell if backward compatibility problems
● Submit MP3 payload format to IESG after draft with WG last call comments is posted
Meeting Actions (3)

- New work to accept as Working Group tasks:
  » Payload for EVRC speech?
  » RTCP RX profile (combined draft)
  » Payload(s) for meta-info?
  » Erasure-resilient progressive multimedia?
  » RTP Security (merged)?
Meeting Actions (4)

● MPEG-4:
  » MPEG committee extensions to systems streams draft to be completed by Jan.
  » This draft will represent MPEG consensus and will go to WG last call at Proposed