
Audio/Video Transport Working Group

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Wednesday Agenda (1)

- Introduction and document status 5
 - » RTP spec and profile advancement 15
 - » RTP MIME spec and H263-2000 5
- Header compression/multiplexing
 - » CRTP extensions 5
 - » CRTP over AAL2 10
 - » Lightweight IP Encapsulation (LIPE) 10
- RTCP reporting extensions 10

Wednesday Agenda (2)

- RTCP backchannel / RTP retransmission
 - » Introduction of issues 5
 - » Profile for RTCP-based retransmission 10
 - » Payload format for selective retrans. 10
 - » RTCP-based feedback for predictive video 10
 - » Low-delay RTCP for backward messages 10
 - » Discussion 15
- Loss-tolerant MP3 audio 10

Thursday Agenda (1)

- Payload formats for unequal error protection
 - » Generic FEC with ULP 10
 - » Erasure-resilient progressive multimedia 10
- Payload format for AMR
 - » ETSI liaison; Sjöberg draft; Wimmer draft 15
 - » Discussion 10
- New payload formats
 - » SMPTE 292M 10
 - » Distributed Speech Recognition 10
 - » SONET over IP 10

Thursday Agenda (2)

- Payload format for MPEG4
 - » SL payload format overview 0
 - » ES payload format overview 0
 - » Framework draft 10
 - » Discussion 10
- Open issues on RTCP feedback 10
- Report on interop matrix meeting 5
- 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:
 - » Text conversation payload (RFC 2793)
 - » DTMF tones payload format (RFC 2833)
 - » Pointer payload format (RFC 2862)
- Drafts awaiting publication:
 - » RTP MIB (approved)
 - » Parity FEC MIME registration
 - » Payload formats for DV audio & video
- WG last call
 - » G.722.1

Status of RTP

- WG Last Call completed in Nov. 1999, with agreed set of edits (done)
- IESG raised Congestion Control issue in Adelaide, addressed in new drafts:
 - » Spec is [draft-ietf-avt-rtp-new-08.ps,txt](#)
 - » Profile is [draft-ietf-avt-profile-new-09.ps,txt](#)
- Profile also includes changes from ITU for G.729 (new annexes), G.723.1 (diagrams)

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 less than what TCP would get
- ☞ *Is this text sufficient / acceptable / appropriate?*

Need to complete interop matrix!

Pleading didn't work, now we twist arms:

- Microsoft - Anders Klemets
- Real Networks - Virginia Thomas
- Apple - Dave Singer
- Ex-Lucent - Jonathan Rosenberg
- UCL - Colin Perkins / Piers O' Hanlon
- IP/TV (no changes) - Steve Casner
- vat and vic - Van Jacobson
- NeVoT & RTP over TCP - Henning Schulzrinne
- Sun - Michael Speer, JMF folks
- Qualcomm (if QCELP is to be kept)
- Vovida - contact?
- Intel - contact?
- RADvision
- Cisco (gateways)

 *Want to meet and assign features tonight – OK?*

Companion Drafts for RTP Spec

- Comfort Noise payload -- need last call
- RTP interoperability statement
 - » [draft-ietf-avt-rtp-interop-03.txt](#)
 - » [draft-ietf-avt-profile-interop-01.txt](#)
- RTP/RTCP testing, scalability – Inform.
 - » [draft-ietf-avt-rtptest-03.txt](#)
- MIME reg., RTCP bw specs – Proposed
 - » [draft-ietf-avt-rtcp-bw-01.txt](#) - not new
 - » [draft-ietf-avt-rtp-mime-03.txt](#) - added optional parameters for G.723.1, G.729; added H263-2000 with “profile” and “level”

Meeting Actions (1)

- Congestion control in RTP spec, Profile
 - » No WG comments yesterday
 - » Will send email with small revisions to address comments from Area Directorate
 - » Issue revised drafts on September 1 (also with non-interoped features removed)
 - » Do WG Last Call again

Meeting Actions (2)

- G.722.1 revision for last call comments after IETF, send to IESG
- Issue WG last call on Comfort Noise payload
 - ➔ Yell if backward compatibility problems
- Issue WG last call on MP3 payload format after last draft revision is posted

Meeting Actions (3)

- New work to accept as Working Group tasks:
 - » Multiple Selective Retransmission?
 - » Generic FEC with ULP?
 - » Payload for AC3 audio?
 - » Payload for DSR audio?
 - » Payload for SONET?
 - » Payload for AMR audio?

Meeting Actions (4)

- MPEG-4:
 - » Issue WG last call for Proposed on elementary streams draft
draft-ietf-avt-rtp-mpeg4-es-02.txt
 - » Issue WG last call for experimental on systems streams drafts
 - » Resolve based on comments from this WG and MPEG committee in October