Audio/Video Transport Working Group

46th IETF, Washington, DC

10-11 November 1999

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Wednesday Agenda

- Introduction and status   10
- RTP spec and profile Last Call   30
- RTCP-based retransmission   10
- Additional payload formats
  - » Pointers   5
  - » DV video, DV audio   20
  - » MPEG 2 AAC   10
  - » Loss-tolerant MP3   10
  - » MPEG 2 Transport Stream   10
  - » HDTV and AC3   5

Thursday Agenda

- **Conversational text payload format**   5

- **Transport of MPEG-4**   60
  - » SL-based payload format   5
  - » Generic, error resilient payload format   5
  - » Elementary stream payload format   5

- **RTP header compression / muxing**   50
  - » CRTP enhancements + PPP mux + tunnel   10
  - » Dynamic Nx64 payload format   10

- **Charter bashing**   10
  - » Multicast feedback / new Profiles?

RTP Drafts in Process

- **Drafts at IESG awaiting publication:**
  - » FEC payload format (approved at PS)
  - » Payload format guidelines (approved BCP)
  - » SSRC Sampling (Last Call requested)
  - » RTP MIB (Last Call requested)
- **Drafts in WG last call:**
  - » DTMF tones payload format
  - » RTP spec and profile package

Status of RTP

- RFC1889, 1890 published as Proposed Standards in January 1996

- WG Last Call issued for Internet-Draft revisions for Draft Standard, ends now!
  - » Spec is draft-ietf-avt-rtp-new-05.ps,txt
  - » Profile is draft-ietf-avt-profile-new-07.ps,txt
  - » Package with companion drafts...

Companion Drafts for RTP Spec

- MIME reg., RTCP bw specs – Proposed
  - » draft-ietf-avt-rtp-mime-01.txt
  - » draft-ietf-avt-rtcp-bw-00.txt

- SSRC sampling – Experimental
  - » draft-ietf-avt-rtpsample-04.txt

- RTP interoperability statement
  - » draft-ietf-avt-rtp-interop-02.txt
  - » draft-ietf-avt-profile-interop-00.txt

- RTP/RTCP testing, scalability – Inform.
  - » draft-ietf-avt-rtptest-02.txt

Recent Changes to RTP Spec

- Collision/loop detection algorithm nesting syntax changed to pseudo-C

- Added SHOULD keep packets from new address on third-party collision for apps that may change addresses (e.g., where some endpoints are mobile)

- Reverse reconsideration algorithm SHOULD be performed to possibly reduce the delay before sending first SR packet after starting to send data

- Timing out a participant is based on inactivity for a number of RTC report intervals calculated using the receiver RTCP bw fraction even for active senders

Questions on RTP Spec

- Says sources that change their source transport address MUST change SSRC — inconsistent with "SHOULD follow new address"

- Should length of RTCP with info about N sources be divided by N for average?
  - » Clarify that a mixer mixing N sources may use N times the single-source RTCP bw

Recent Changes to RTP Profile

- CN (comfort noise) static payload type changed back from 19 to 13 for consistency

- RTP clock rate G722 changed back to 8000 even though sampling rate is 16000 (a note of explanation was added)

- Note that MPEG audio RTP clock rate is always 90000 regardless of sampling rate

Questions on RTP Profile

- What should we say about recommending H263-1998 over H263?

- Did AIFF-C list of channels change from what is in RFC 1890?

- Change title of Section 3 to "IANA Considerations"

- Bungled edit of CN from 13 to 19 in Table 5

- Proposed enhancements to CN to include spectral shape parameters

MIME Registration

- New draft-ietf-avt-rtp-mime-01.txt
  - » clarified mapping from MIME parms to fmtp
  - » added RED (redundant audio)
  - » added "type" parameter for MPEG
- FEC payload format does not contain a MIME registration for "parityfec"
  - » make 1-page registration draft for this, or
  - » add it to the rtp-mime draft (but it isn't a payload format in the Profile)

Need Interoperability Statements

- Two drafts list the interoperability points:
  - » draft-ietf-avt-rtp-interop-02.txt
  - » draft-ietf-avt-profile-interop-00.txt (not submitted)
- Please submit for your implementation — need not be complete
- If there are political problems, please let us know