RTCP XR Video Metrics

draft-ietf-avt-rtcpxr-video-02.txt
draft-ietf-avt-rtcpxr-audio-01.txt

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Key changes

- Mandates from AVT WG
  - Remove MOS scores
  - Ensure that metrics are defined elsewhere
- Changes
  - Removed MOS scores
  - Removed Timestamp – this should be provided by SR
  - Added references
- Goal – maintain alignment with ATIS 080008
  - Most comprehensive standardized list of IP Video metrics
  - Coordinated with ITU IPTV FG, DSL Forum, TM Forum……

Comparison to ATIS 080008

RTCP XR Video Metrics

- Measurement Interval
- Proportion Imp I Frames
- Proportion Imp BP Frames
- Loss rate within I Frames
- Loss rate within BP Frames
- Mean/Max GoP Length
- EPSNR Threshold
- Time below PSNR Threshold
- Mean Video Bandwidth
- Round Trip Delay
- A-V Delay
- Playout Interrupt Count
- Mean Playout Interrupt Size
- Playout Buffer Size
- Mean Buffer Level

ATIS 080008

- Measurement Interval
- Prop of I Frames impaired
- Prop of BP Frames impaired
- Loss rate within I Frames
- Loss rate within BP Frames
- (assumed known)
- ATIS EPSNR Trial Use Std
- ATIS EPSNR Trial Use Std
- Per PID Video Bandwidth
- (only for control channel)
- AV Synch
- ITF buffer under/overrun
- (not def)
- (assumed known)
- (not def)

Status of Transport drafts

- Being updated
- Again – want to maintain alignment with ATIS

Comments received

- Kaynam Hedayat
  - Wants to add literal bit map to indicate the status of a series of I/B/P frames (e.g. ……………01…… indicates errored P frame).
  - Action
    - Don't want to incorporate this into the video draft
      - Creates long variable length payload
      - Inconsistent with other standards approaches
    - Could potentially have a separate draft that contains literal bit map or rlc encoded sequence of data