

RTCP XR Video Metrics  
draft-ietf-avt-rtcpxr-video-01.txt  
draft-ietf-avt-rtcpxr-audio-00.txt

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# -00 draft divided into 4

- Per AVT Chair's direction from Prague meeting
  - -00 draft had sub-blocks
  - Now divided into four XR blocks in separate drafts
    - Draft-ietf-avt-rtxpxr-video-01.txt
    - Draft-ietf-avt-rtxpxr-audio-00.txt
    - Draft-ietf-avt-rtxpxr-transport-00.txt
    - Draft-ietf-avt-rtxpxr-mpts-00.txt
- Aimed for strong consistency with ATIS IIF (WT014) and DSL Forum (WT135) work on IPTV performance metrics

## -00 draft divided into 4

- Draft-ietf-avt-rtxpxr-video-01.txt
  - Video related metrics
- Draft-ietf-avt-rtxpxr-audio-00.txt
  - Audio related metrics
- Draft-ietf-avt-rtxpxr-transport-00.txt
  - RTP metrics
- Draft-ietf-avt-rtxpxr-mpts-00.txt
  - MPEG Transport metrics

# New –01 Video draft

- Aimed for consistency with ATIS IIF WT014 and DSL Forum WT135 (principal IPTV metrics definitions (both in final closure))
  - Identify stream by both SSRC and PID
  - Measurement Interval
  - I/ BP Frame metrics
  - Mean/ Max GoP length
  - MOS-V
  - EPSNR
  - Added – thresholds and time below threshold for MOS-V and EPSNR

# EPSNR and MOS-V

- EPSNR
  - Packet based estimation approach being evaluated by ATIS IIF group
  - Can be directly produced by video decoder
- MOS-V
  - Defined in ATIS IIF WT014
  - Zero reference algorithms being evaluated by VQEG during mid-2007 to early-2008

# New –00 Audio draft

- Identify stream by both SSRC and PID
- Report Timestamp & Measurement Interval
- Added Left/Right audio quality
- Other metrics consistent with previous draft

# Audio quality estimation

- PEAQ – ITU-T BS.1387
  - Full reference audio quality estimation
- ITU-T G.1070
  - Multimedia quality estimation for IP videoconferencing applications
- VQEG
  - Audio as part of multimedia testing of objective algorithms (FR/RR/NR)

# Other –00 drafts

- Transport metrics (co-author Al Morton)
  - RTP related metrics from previous Video metrics draft .. Loss rate, burst/gap metrics, loss period, PDV
- MPEG Transport metrics
  - MPEG transport related metrics from previous Video metrics draft
- Both in reasonable alignment with ATIS IIF and DSL Forum work on IPTV metrics