RTCP XR Report Block for Delay metric Reporting

draft-ietf-xrblock-rtcp-xr-qoe-01

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Document Status

- Document (-01) has gone through WGLC
- Many thanks to the reviewers
    - Colin Perkin,
    - Varun Singh,
    - Kevin Gross,
    - Schwarz, Albrecht
    - Glen Zorn
- One open issue remains.

Issue # The range and accuracy of the metrics

- The current draft allocates 16 bit for each metric in the Delay metrics block.

- Colin proposed using 1/65536 second as unit for network Round Trip Delay, to match RTCP SR/RR report, rather than in milliseconds
  - Advantage: avoid rounding and improve accuracy
  - Downside: the range of each metric is limited less than 1s

- The data from BBF specification TR-126 shows:
  - If the real time application is interactive, e.g., gaming, VOIP, the acceptable delay is << 1s
  - If the real time application is timely, e.g.,streaming audio and video, the acceptable delay is ~10 s.
  - many other best effort internet application,e.g., web browsing, email, voice and video messaging, are all responsive, therefore the desirable delay is ~2 sec (G.1010).

- Kevin suggested to use 32-bit field for each metric

- Proposal: Accepted this suggestion.

Follow Up

- Address the open issue and submit -02 for WGLC.