RTCP XR Report Block for Delay metric Reporting
draft-ietf-xrblock-rtcp-xr-qoe-01

Geoff Hunt
Alan Clark
Roland Scott
Qin Wu
Glen Zorn
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 $\sim 10 \text{ s.}$
  - many other best effort internet application, e.g., web browsing, email, voice and video messaging, are all responsive, therefore the desirable delay is $\sim 2 \text{ sec (G. 1010).}$

- 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.