

RTCP XR Report Block for Jitter Buffer metrics Reporting

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Document Status

- What is this draft about?
 - supports reporting information on jitter buffer configuration and performance.
 - Reflect how delay variation in network delivery of media packets can be smoothed by jitter buffer at the RTP end device.
- Where are we about this draft?
 - In last Atlanta IETF meeting, One issue raised by Varun is how jitter buffer metric is calculated, especially., jitter buffer nominal metric
 - Kevin remarked he will review this draft.
 - Got quite a lot of reviews on the list from Kevin, Glen and Alan after Atlanta meeting.
 - WGLC hasn't been issued yet.
- Seven updates from (-03) to (-08) were issued to address the comments raised on the list.
 - The last two updates incorporate proposed changes both from Kevin and Alan
 - The main changes
 - Add a new section to clarify jitter buffer operation
 - This new section was rewrote by Alan in version (v08) to address Kevin's comments.
 - Clarify the definitions of "Exactly on time" and "jitter buffer nominal delay".

Definitions clarification

- Definition of “Exactly on time”
 - **“The “expected arrival time” is the time that a packet would arrive if there was no delay variation. If all packets arrived at their expected arrival time then every packet would be delayed by exactly the Nominal Delay. Early packets arrive before their expected arrival time and late packets arrive after. The reference for the expected arrival time may, for example, be the first packet in the session or the running average delay.”**
- Definition of “Jitter Buffer Nominal Delay”
 - **“The delay applied to packets that arrive at their expected time is known as the Nominal Delay and this is equivalent to the late window.”**

Concern to Nominal Delay

- Kevin believed in some implementations, nominal delay is a static receiver property, in some implementation not and this report value can drift when sender clock loses sync with received sender
- Proposal:
 - Add Alan's proposed method to show this is best way to do this and make implementations behave in a consist manner

Follow Up

- Issue new version to address comments by Kevin and any raised in this meeting
- Ready for publication, WGLC?