

RTCP XR Block for Post-repair Non-Run Length Encoding (RLE) Loss Count Metrics

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Motivation

- Why post-repair metrics are needed?
 - The metrics in RTCP SR/RR only are only measured before loss repair mechanisms applied, which may not accurately assess the final quality of services.
 - [RFC5275] specifies run length encoding post-repair loss metrics.
- Why Non-RLE reports are needed?
 - RLE reports have the cost of high overhead.
 - Some applications may prefer more concise reporting to save bandwidth, e.g., W3C may require Non-RLE based statistics.

Overview

- This new XR block is a complement of [RFC5725].
- Begin_seq and end_seq are used to indicate the interval range.
 - “I” flag is not used because the post-repair packets range may differ from pre-repair range, e.g., some packets in the current pre-repair interval may be repaired in the next interval.
- Two metrics are reported: post-repair loss count, loss repaired count.
- This report block should be generated for source packets that have no further chance of being repaired.
- The metrics in this block should not be directly compared with the pre-repair loss metrics.

Next Step

- Request for adoption as a new work item.