RTCP XR Blocks for layered Stream statistics metric reporting

draft-xia-xrblock-rtcp-xr-layered-statistics

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Overview

- Background
  - draft-xia-xrblock-rtcp-xr-layered-statistics-01 is split from draft-wu-avt-rtcp-xr-quality-monitoring right after split of avt.
  - Draft discusses summary statistics for layered Stream.
  - This metric block is more applicable to the case when each layer is sent in its RTP session.

- Changes since 00 version
  - Add the layer dependency field in the format of this metric block.
  - Clear unused references.
  - Other Editorial changes.

Metric block overview

- Layered stream summary statistics
  - Metric name: Lost Layered Component Packets
  - Measurement method:
    First identify layer it measured by looking at NAL unit header
    Then count the lost packets in the specific layer
    the number of lost packets is measured in the same way as defined in section 4.6 of RFC3611
  - Metric name: Dup Layered Component Packets
  - Measurement method:
    First identify layer it measured by looking at NAL unit header
    Then count the duplicated packets in the specific layer
    the number of dup packets is measured in the same way as defined in section 4.6 of RFC3611

Challenge: when base layer and enhance layer are encapsulated in the same RTP stream, it is a challenge to distinguish the statistics on losses and duplicates in both layers.

Next Step

- Adoption as work item?
- Question?