

RTCP XR Blocks for Synchronization Delay and Offset Metrics Reporting

draft-asaeda-xrblock-rtcp-xr-synchronization-02

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Overview

- Background
 - draft-asaeda-xrblock-rtcp-xr-synchronization-02 is split from draft-wu-avt-rtcp-xr-quality-monitoring right after avt was split.
 - This draft discusses Synchronization Delay and Offset between RTP streams.
 - -02 version contains a few changes that follow consensus of monitoring architecture document.
- Changes since -00 version
 - Explain what the components of RTP session are in section 3.
 - Clarify which synchronization is reported in section 4 and 5.
 - Allow calculating the synchronization delay based on RTP header extension defined in RFC6051.

Metric Blocks

- Synchronization Delay and Offset

- Metric name: Initial Synchronization Delay between streams
- Measurement method:
Initial Synchronization Delay =
Arrival time of the first RTCP SR packet – Session join time
or
Arrival time of the first RTP packet with embedded NTP format timestamp
– Session join time

- Metric name: General Synchronization Offset between streams
- Measurement method:
General Synchronization Offset = Difference $D(i,j)$
where i and j denote stream between an arbitrary RTP packet and the
reference RTP packet with the same CNAME
 $D(i,j)$ can be calculated based on the measurement method for interarrival
jitter defined in RFC3550

Next Step

- Adoption as a work item?
- Question?