RTCP XR Report Block for Delay metric Reporting

draft-ietf-xrblock-rtcp-xr-delay-00

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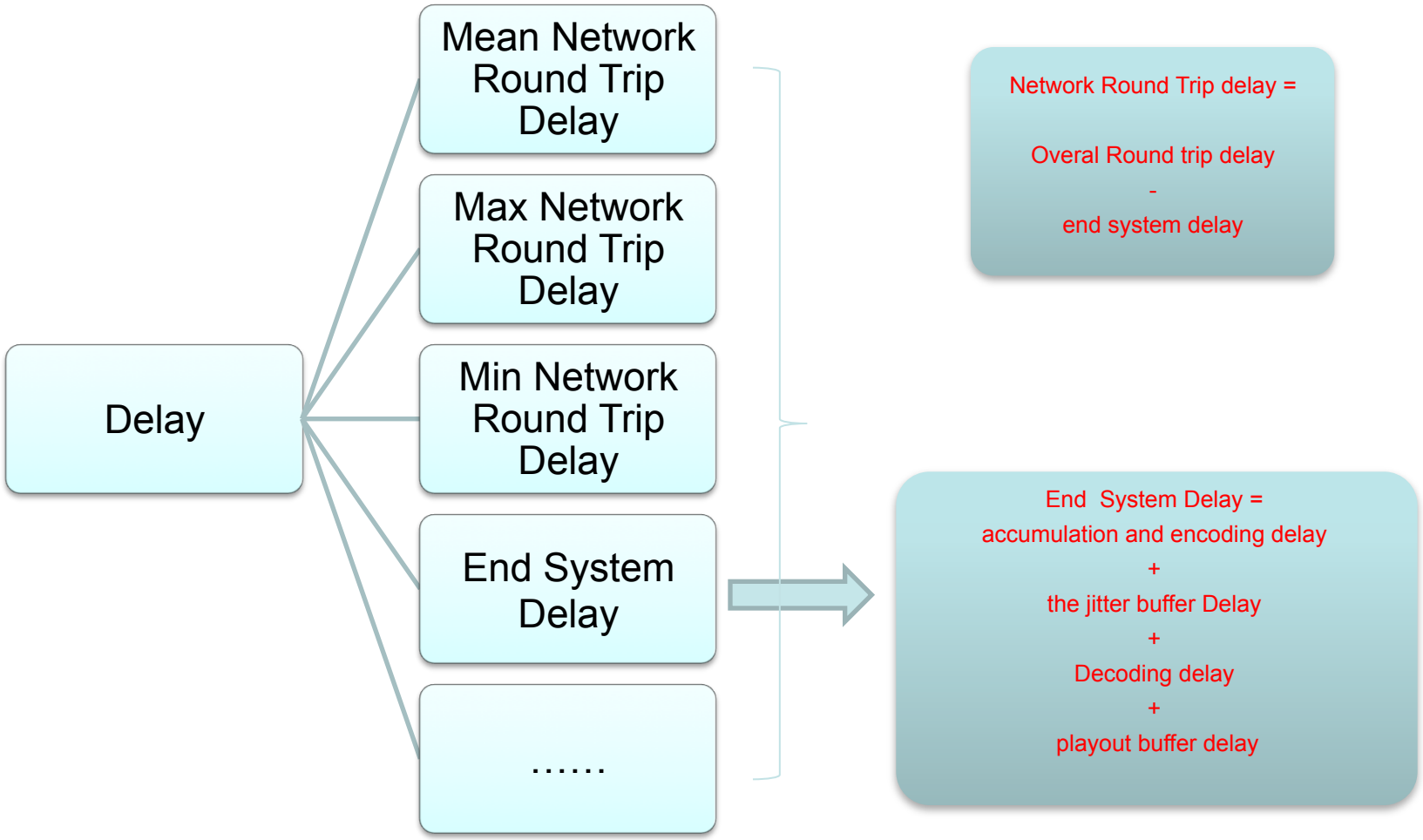
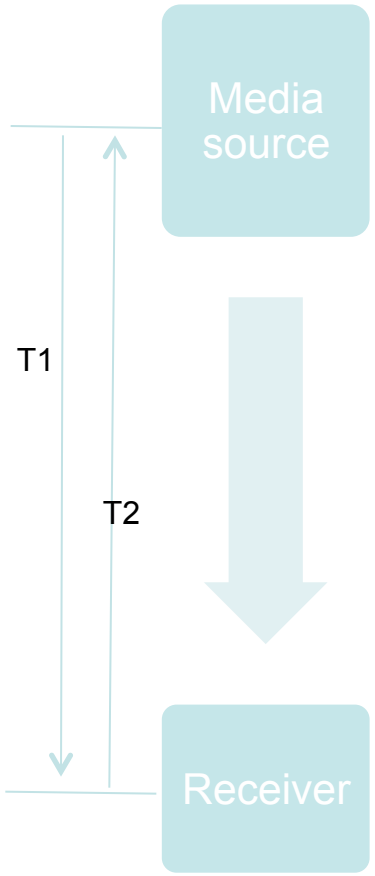
Overview

- Background
  - draft discusses the metric for packet delay.
  - The metric belong to transport metrics
  - 00 version received comments on the list
  - 00 version contains a few changes
    - Follow consensus to draft-ietf-avtcore-monarch
- Changes since 00 version
  - Remove tag field in Block header
  - Add SSRC field in the Block payload.
  - Remove the reference to tag field that is related to measurement identity draft.
  - Reference update.

Metric overview



Comment from avtcore on One way delay



- Network Round Trip delay T0 = One way delay T1 from Source to Receiver + One way delay T2 from Receiver to Source
- Is this always true when we say one way delay T1= ½ Network Round Trip Delay T0
  - This is not true if the way in two directions is not symmetrical?

Open issue for one way delay calculation

- Do we have measurement method for one way asymmetric delay?
  - E.g., NTP timestamp in SR –arrival time of SR
- Problem to the proposed measurement method is :
  - how to guarantee wall clock is synchronized
  - how accuracy you expect such measurement?
- Do we need one way delay to this XRBLOCK
  - Option 1:Yes,
    - we have use case in IDMS draft,
    - And this is not unspecified in any existing XR Block document.
  - Option 2: No
    - No general way to calculate one way delay
    - Complicated calculation if synchronization is not guaranteed.

Follow Up

- Need another revision if the open issue is confirmed.
- WGLC if there is no open issue?