## RTCP XR Report Block for Packet Delay Variation Metric Reporting draft-ietf-xrblock-rtcp-xr-pdv-01

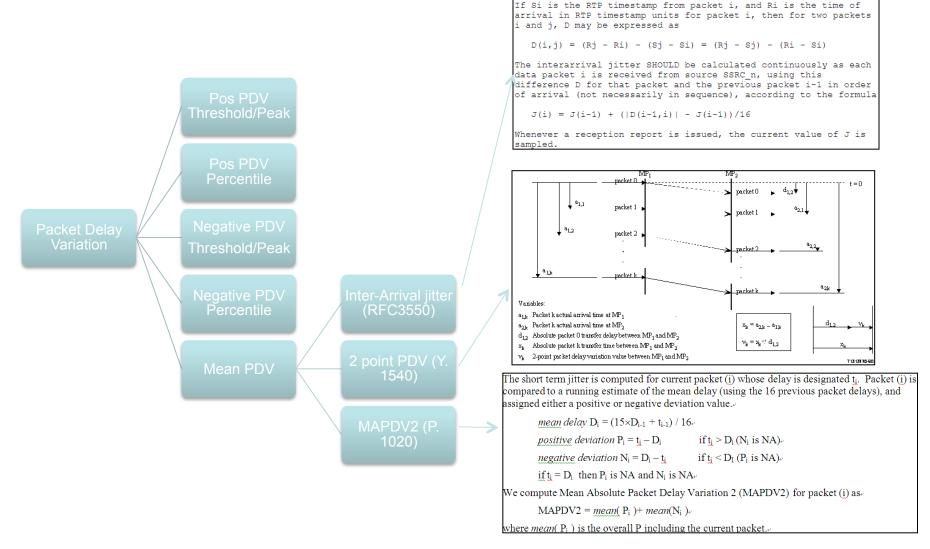
Qin Wu (sunseawq@huawei.com) G. Hunt (r.geoff.hunt@gmail.com) Alan Clark (alan.d.clark@telchemy.com)

## Overview

### Background

- draft discusses the metric for packet delay variation.
- The metric belong to transport metrics
- 01 version received comments on the list
- 01 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.
  - Fix typo on SDP parameter from "delay" to "pkt-dly-var".
  - Reference update.

### Metric overview



AVTCore IETF 82 Taipei

#### Issue- Cumulative, Interval and Sample metrics

- Current draft assigned one bit for Cumulative/Interval indication
- Proposal to increase two bits to allow for the indication of a Sampled value
- Discussion about sample metric
  - PPDV also can be cumulative metric when all the packets in the whole measurement duration are measured.
  - PPDV also can be Interval metric when all the packets in the recent measurement Interval are measured.
  - Some metrics are sampled and don't have validity for an interval or a call/session
  - PPDV can be a sampled value of a running average and only has validity for the last 200-300ms before the value is sampled.
  - When it is impractical to gather all the packets, you may sample a subset of packets during each consecutive measurement Interval.
  - PPDV algorithm is better described in sample metric since computation overhead is overwhelming
- Action
  - Apply this sample indication only to PDV metric? (Qin)
  - Apply this sample indication to any future metric? (Alan)

## **Proposed changes**

- Proposed change to the Interval metric flags in relevant XR blocks:
  - Interval Metric flags (I): 2 bits

#### • Proposed change to Monarch draft

- Do we have Interval Metric Flags definition in Monarch draft
  - This definition apply to almost all the new metric block
  - But it influence monarch draft? No?
  - Have definition for terms like interval, cumulative, sample metric?
    - Reasonable!
    - Interval metric flags definitions should refer to this terms

# Follow Up

- Question?
- WGLC ?