

RTCP XR Blocks for multimedia quality metric reporting

draft-wu-xrblock-rtcp-xr-quality-monitoring-04

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Overview

- Background
 - draft-wu-xrblock-rtcp-xr-quality-monitoring-04 is split from draft-wu-avt-rtcp-xr-quality-monitoring prior split of avt.
 - 3rd presented in the IETF meeting.
 - draft discusses QoE metric for multimedia application.
 - 03 version contains a few changes that follow consensus of monitoring architecture document.
 - No IPR concerned.

Changes since 00 version

- Separate Summary statistics metric, layered stream statistics, synchronization delay and offset from this draft
- Use Mos Type field in the XRBlock header to distinguish different MoS types
- Define and use a Numeric format for MoS value
- Change 32bits MoS Value into 16bits MoS Value
- Clarify the algorithm calculation for MoS.
- Replace MoS-A with MoS-LQ and MoS-CQ.
- Reference update
- Other Editorial Changes.

Metric block overview

- **Multimedia QoE metrics**

- **Metric Block Name: Multimedia Quality Metrics Block**

- Metric Name: MoS Value

- Measurement method:

If MoS type is MoS-LQ and MoS-CQ, use measurement method defined in ITU-T Recommendation [G.107][P.564] or ETSI TS ETSI TS 101 329-5.

If MoS type is MoS-V or MoS-AV, use measurement method defined in [P.NAMS], [P.BNAMS].

Open issue

- Issue 1: Do we need to distinguish different MOS algorithms to calculate MOS value for each MOS Type?
 - Option 1: Yes
 - it is more desirable to use signaling to distinguish them? No need to reflect it in the XR format.
 - Option 2: Yes
 - assign additional field in XR Block payload to distinguish them?
 - Recommendation:
 - Option 1:
- Issue 2: Do we need to distinguish collecting data from different channel?
 - Option 1: Yes,
 - assign additional field in XR Block payload to distinguish them?
 - Option 2: No,
 - audio data in all channel is typically carried in one RTP flow,
 - Layered video sent in each RTP flow.
 - Recommendation:
 - Leave this for specific implementation.

Follow Up

- Adoption as work item?
- Question?