**3GPP TSG-RAN WG3 Meeting #114-eR3-216135**

**Online, November 1st – 11th 2021**

**Title:**  [Draft] Support for RAN visible QoE metrics

**Response to:** -

**Release:** Rel-17

**Study Item:** NR\_QOE

**Source:** Ericsson [To be RAN3]

**To:** SA4

**Cc:** -

**Contact Person:**

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**Attachments:** -

**1. Overall description:**

RAN3 agreed to support the following RAN visible QoE metrics for DASH and VR service types:

* Buffer Level (as defined in TS 26.247)
* Playout Delay for Media Startup (as defined in TS 26.247)

The reason for introducing RAN visible QoE metrics is that RAN cannot read XML file format and hence metrics in ASN.1 format are needed.

RAN3 would like to ask SA4 the following questions:

**Q1:** Given that the Application layer shall provide the RAN visible QoE metrics requested by the RAN node to the RRC layer, RAN3 would like to respectfully ask SA4 to consider if there is any corresponding SA4 specification impact, and to provide the necessary specification support, if applicable.

**Q2:** RAN3 would also like to check with SA4 whether it is feasible from an application layer perspective to report the RAN visible QoE metrics with a different reporting interval compared to the one configured for reporting application layer QoE metrics (e.g., *reportinginterval* in TS 26.247). This reporting periodicity for RAN visible QoE metrics can be potentially configured by RAN and conveyed to the application via AT commands. As an example, a RAN node can receive load status information from a neighboring RAN node with a periodicity of 500 ms (current possible values are 500 ms, 1000 ms, 2000 ms, 5000 ms, 10000 ms). In this case, reusing the same periodicity for reporting RAN visible QoE metrics would enable RAN to use RAN visible QoE metrics as input for mobility decisions in relation to load balancing.

Q3: RAN3 is also considering event-based triggering of RAN visible QoE reporting and would also like to check with SA4 whether reporting of RAN visible QoE metrics for an application measurement session can be supported based on triggering event.

**2. Actions:**

**To 3GPP SA4**

**ACTION:**

RAN3 respectfully asks SA4 to take the RAN3 agreements into account and reply to the above two questions.

**3. Date of next TSG RAN WG3 meeting:**

RAN3#114-bis-e January 17th  - 26th 2022 Online