**3GPP TSG-RAN2 Meeting #118-e *R2-22xxxxx***

Electronical meeting, 9th- 20th May 2022

**Title: LS on questions on QoE**

**Release:** Rel-17

**Work Item:** NR\_QoE-Core

**Source:** RAN2

**To:** RAN3

**Cc:** SA4

**Contact Person:**

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**Attachments:**

**1. Overall description:**

RAN2 has discussed parameters for RAN visible QoE and the feedback received from SA4 in the reply LS S4-220239.

* *Assumption 1a: RAN2 specifies the maximum number of buffer level entries (ASN.1 value) for each buffer level metric report in one reporting message.*

[Feedback]: SA4 agrees with the above expectation on Application layer reporting behavior and AS layer can limit the maximum number in one reporting message. However, SA4 notes that RAN2 also need to specify how often buffer level measurements shall be done.

SA4 asks RAN2 to specify how often buffer level measurements shall be done. RAN2 has specified a list of buffer level entries and periodicity for RAN visible QoE, but not sampling periodicity for buffer level measurements.

RAN2 has also discussed whether the PDU session ID should be mandatory or optional in the signaling.

Based on the RAN3 stage 2 input to QoE the below highlighted requirement is specified in TS 38.300 [3], subclause 21.4:

*RAN visible QoE measurements can be reported with a reporting periodicity different from the one of regular QoE. If there is no reporting periodicity defined in the RAN visible QoE configuration, RAN visible QoE reports should be sent together with the legacy QoE reports.*

However, from RAN2 point of view no requirement was agreed that RAN visible QoE reports should be sent together with the QoE reports if no reporting periodicity is defined in the RAN visible QoE configuration. RAN2 has agreed that it is up to UE implementation on how to send QoE and RAN visible QoE reports to the network according to the following agreements:

1. *The UE can send each QoE/RVQoE report immediately to the gNB in a single MeasurementReportAppLayer message once it arrives at UE AS layer.*
2. *The UE can collect QoE/RVQoE reports and temporarily buffer them in AS layer and send them altogether to the gNB in a single MeasurementReportAppLayer message (either as one complete message if the message size does not exceed the maximum PDCP SDU size or as segments if UL RRC segmentation is supported and allowed).*

* *In this context the UE can decide in which order it sends the collected QoE/RVQoE reports, e.g. prioritizing the latest received reports or the oldest received reports.*

1. *In case of QoE resume the UE can prioritize the transmission of stored QoE reports over RVQoE reports or vice versa.*

Based on the discussions above, RAN2 has the following question to RAN3:

Does sampling periodicity for buffer level reporting needs to be specified and in such case the range and values of the sampling? If not, provide further information of how the list is filled.

Should the PDU session ID be mandatory or optional in the signaling?

What is the expected UE behavior when no reporting periodicity is defined in the RAN visible QoE configuration? RAN2 assumes that the AS layer is not required to check the periodicity defined inside the container.

**2. Actions:**

**To 3GPP RAN3**

**ACTION:**

RAN2 respectfully asks RAN3 to reply to RAN2 on the questions above.

**3. Date of next TSG RAN WG2 meetings:**

RAN2#119 15th August - 26th August 2022 Online

RAN2#119bis 10st October - 19th October 2022 Online