**3GPP TSG-RAN2 Meeting #116bis-e *R2-22xxxxx***

Electronical meeting, 17th- 25th January 2022

**Title: [Draft] Reply LS on maximum container size for QoE configuration and report**

**Reply to:** R2-2109386/S4-211291

**Release:** Rel-17

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

**Source:** Ericsson (to be RAN2)

**To:** SA4

**Cc:** RAN3, SA5, CT1

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**Attachments:**

**1. Overall description:**

RAN2 thanks SA4 for their LS S4-211291 and answers on the maximum container size for one QoE configuration and report.

RAN2 has discussed the maximum sizes of the QoE configuration and report container and made the following agreements:

* The maximum size of one QoE configuration container is 8000 bytes and will be specified in ASN.1 as the maximum size of the OCTET STRING carrying the QoE configuration container.
* No maximum size of the OCTET STRING carrying one QoE report container will be specified in ASN.1.
* UL RRC segmentation will be supported for the RRC message carrying the QoE report, *MeasurementReportAppLayer*. Hence, there can be maximum 16 UL segments of the message, which means that the *MeasurementReportAppLayer* message can carry one or multiple QoE reports up to 144 000 bytes.

RAN2 wants to leave SA4 to decide whether to capture the above agreements on the maximum sizes in their specification.

Furthermore, RAN2 is discussing the applicability of UL RRC segmentation for the *MeasurementReportAppLayer* message due to e.g. UE or gNB capability of UL RRC segmentation capability and its potential impact to application layer. For instance, if UL RRC segmentation is not applied whether an explicit indication from Access Stratum layer to application layer may be required so that application layer can take this indication into account for controlling the size of the QoE report container. Therefore, RAN2 has the following questions to SA4:

* Does the application layer need to be informed about the AS applicability of UL RRC segmentation?
* Would the application layer be capable to take this information into account for controlling the size of the QoE report container?

In addition, RAN2 has discussed UE capabilities for QoE, and achieved the following conclusions on UE capabilities related to application layer.

* Introduce QoE UE capability parameters for each service type i.e., streaming, MTSI and VR.
* Introduce UE capability parameter(s) for RAN visible QoE.
* For QoE capable UE, Mandatory to support 16 QoE configs (signalling limitation).
* FFS whether to introduce UE capability of RVQoE for each service type.
* FFS whether to introduce UE capability for slice-based QoE.

RAN2 understands such UE capabilities are highly related to application layer capabilities for QoE, RAN2 has the following questions to confirm with SA4:

* Q1: Whether application layer could send QoE capability to AS layer for each service type?
* Q2: Whether UE needs to indicate RVQoE capability per service type? For example, application layer can support QoE for both of DASH and VR service types but can only support RVQoE for DASH service type.
* Q3: Whether slice-based QoE is optionally supported in application layer?

**2. Actions:**

**To 3GPP SA4**

**ACTION:**

RAN2 respectfully asks SA4 to take the above agreements into account and provide feedback to the questions.

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

RAN2#117 21st February - 3rd March 2022 Online

RAN2#118 16th May - 27th May 2022 Online