**3GPP TSG-RAN WG2 Meeting #124 R2-231XXXX**

**Chicago, USA, Nov.13th- 17th, 2023**

**Agenda item: 7.14.5**

**Title: Open issues list for Rel-18 QoE UE capabilities**

**Source: CMCC**

**Document for:** **Discussion and decision**

# 1. Introduction

This document reflects the open issues captured in following UE capabilities discussion [1],

* [Post123bis][619][QoE] UE capabilities CRs update and open issues (CMCC)

Scope: Running CRs update and open issues

Intended outcome:

* Endorsed running CRs
* List of open issues for UE capabilities (separate document)

Deadline: Long

# 2. Discussion

Table 4: open issue list for UE capability [2]

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| --- | --- | --- | --- |
| **Topic** | **Open issues** | **Related to the completion of the WI (Yes/No)** | **Remark** |
| (1) RedCap/eRedCap UE AS layer memory size for IDLE/INACTIVE QoE | a) For RedCap UE, FFS what is the minimum size requirement capability for Rel-18 QoE in RRC\_IDLE/RRC\_INACTIVE [2]?  b) FFS RedCap and eRedCap UE should have the same minimum memory size requirements for QoE in RRC\_IDLE/RRC\_INACTIVE. | Yes | RAN2#123bis has agreed that non-RedCap UE should have minimum 64kB memory for QoE in RRC\_IDLE/RRC\_INACTIVE, which is additional to legacy memory. Memory larger than 64Kb can be separate UE capability. |
| (2)  AR/MR Capability | FFS whether to introduce AR/MR as service type for Rel-18 QoE, but SA4 hasn’t formulated the metric(s). | No | SA4 have defined some potential QoE metrics in the approved draft TS 26.119 (MeCar WI) and TR 26.812 (ARMRQoE SI) |
| (3) Clarification on Rel-17 QoE capability | FFS whether to clarify that Rel-17 QoE UE capability (i.e., *qoe-Streaming-MeasReport-r17*, *qoe-MTSI-MeasReport-r17* or *qoe-VR-MeasReport-r17*) is only for RRC\_CONNECTED. | Yes | With the introduction of *qoe-IdleInactiveMeasReport-r18*, it may be necessary to clarify that legacy QoE capability is for RRC\_CONNECTED. |
| (4) Priority based QoE report discarding in RRC\_IDLE and RRC\_INACTIVE | FFS whether to reword *qoe-IdleInactiveMeasReport-r18* includes indication of UE supporting priority based QoE report discarding agreed by RAN3. | Yes | Some companies suggest this capability is included in the RRC\_IDLE/RRC\_INACTIVE UE capabilities, no need to define a separate UE capability. |
| (5) SRB5 segmentation capability | FFS whether to reword Rel-17 legacy segmentation capability and clarify that it is only for SRB4 and introduce SRB5 segmentation capability (e.g., *ul-MeasurementReportAppLayer-Seg-srb5-r18*  ) | Yes | Some companies suggest to define a new UE capability for SRB5 segmentation and clarify the legacy segmentation capability is for SRB4 |

# 3. References

[1] R2-231XXXX,Report of [Post123bis][619][QoE] UE capabilities CRs update and open issues (CMCC)

[2] R2-2310204, [Post123][QoE] Remaining Open Issues (China Unicom)