**3GPP TSG-RAN WG2 Meeting #120 R2-221xxxx**

**Toulouse, France, 14 – 18 November 2022**

**Title: LS on QoE measurements in RRC IDLE/INACTIVE states**

**Response to:**

**Release: Release 18**

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

**Source: RAN2**

**To: SA4, SA5**

**Cc: RAN3**

**Contact person: Dawid KOZIOL**

 **dawid.koziol@huawei.com**

**Send any reply LS to: 3GPP Liaisons Coordinator,** **mailto:3GPPLiaison@etsi.org**

**Attachments:** **-**

1 Overall description

As part of the WI on QoE enhancements in Rel-18, RAN2 is discussing how to enable QoE measurements in RRC IDLE and RRC INACTIVE states for MBS services. One of the aspects that RAN2 discussed was related to QoE measurement area scope handling. According to the RAN3 agreement, in case QOE measurements are collected by the UE in RRC IDLE/INACTIVE state, area scope is checked by the UE. However, RAN2 needs to decide whether QoE area scope information needs to be provided by the AS layer (e.g. via RRC signalling) or can be contained in the application layer QoE configuration container (i.e. transparent to AS signalling). Due to this RAN2 has the following questions to SA4:

**Question 1:** Can information about the applicable area scope of a QoE configuration be provided at the application layer to the UE (e.g. in the QoE configuration container)? If it can, how is this information defined at the application layer, e.g. does it indicate applicable tracking area, applicable cells etc.?

**Question 2:** Can the application layer know the UE location on the proper level (e.g. tracking area, cell) and use this information to decide whether to start QoE measurements when triggering conditions are met?

RAN2 also agreed that, as a baseline, UE does not trigger RRC connection setup or resume just for the sake of reporting QoE measurement results. This means the reports are stored in the UE while the UE is in RRC ILDE or in RRC INACTIVE and can be reported only when the UE establishes a connection with the network for another reason. Related to this, there was a discussion in RAN2 on whether there is a time after which the collected QoE reports are no longer useful for the OAM and can be discarded. RAN2 was also discussing whether the OAM handles the reports differently depending on when they were collected, e.g. are latest reports more useful to the OAM than the reports collected earlier, in case the UE is forced to discard part of QoE reports. Therefore, RAN2 would like to ask the following questions to SA4 and SA5:

**Question 3:** Is there a time after which the QoE reports collected by the UE are no longer useful for the OAM?

**Question 4:** In case of limited storage space for QoE reports at the UE, is there any preference from the OAM side on which QoE reports should be reported and which should be discarded, e.g. is there a principle that newer or older reports are more useful for the network?

2 Actions

**To SA4:**

**ACTION: RAN2 respectfully asks SA4 to answer questions 1, 2, 3 and 4 above.**

**To SA5:**

**ACTION: RAN2 respectfully asks SA5 to answer questions 3 and 4 above.**

3 Dates of next RAN2 meetings

RAN2#121 21 February – 3 March 2023 Athens, Greece

RAN2#121-bis-e 17 – 26 April 2023 Electronic