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

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

**Title:** LS to CT1/SA4 on area scope as per the agreements

**Response to:**

**Release:** Rel-18

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

**Source: RAN2**

**To: CT1**

**Cc: SA4, SA5, RAN3**

**Contact Person:**

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Attachments:

**1. Overall Description:**

RAN2 discussed area scope handling for QoE measurement collection in RRC\_IDLE/RRC\_INACTIVE and made the following agreements based on the assumption that the area scope checking is performed by the UE AS layer when the UE is in RRC\_IDLE/INACTIVE:

* The gNB forwards the area scope to the UE AS together with the IDLE/INACTIVE applicable QoE configuration in the MeasConfigAppLayer IE.
* RAN2 should send an LS to CT1 and SA4, asking CT1 to extend the +CAPLEVMCNR AT command with an “inside area”/”outside area” indication or specify a new AT command for conveying such an indication from the UE AS to the UE application. AS layer sends this indication whenever it moves in/out area scope and APP layer only considers it for non-ongoing QoE measurement session.
* The UE shall not autonomously release a QoE configuration when the UE leaves the area scope in RRC\_IDLE or RRC\_INACTIVE state.

RAN2 kindly asks CT1 to specify “inside area”/”outside area” indication in AT command. The application layer should use the information to check that the UE is inside the applicable area when starting new application layer measurement sessions.

**2. Actions:**

**To CT1**

**ACTION:** RAN2 respectfully asks CT1 to take the above agreements into account and specify necessary updates in TS 27.007.

 **3. Date of Next TSG-RAN2 Meetings:**

3GPP TSG RAN WG2#125 26 February - 1 March 2024 Athens, Greece

3GPP TSG RAN WG2#125bis 15 April - 19 April 2024 China (TBC), CN