**SA WG2 Meeting #164 S2-2408990**

**Maastricht, Netherlands, 19 August – 23 August, 2024**

Title: [DRAFT] LS reply on RP-240825 per UE energy consumption in RAN

Response to: S2-2405847

Release: Rel-19

Work Item: FS\_EnergySys

Source: SA2

To: RAN, RAN1, RAN2, RAN4

Cc: SA, SA1,SA5

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Attachments: S2-2407758

**1. Overall Description:**

SA2 thanks RAN feedback in RP-240825. And would like to provide this LS to further update SA2 progress.

In Rel-19, SA2 has conluded to enhance the 5G architecture for end-to-end Energy Consumption (EC) information collection and calculation per UE granularity. The information is consisted of both RAN side and CN side EC information.

SA2 kindly request RAN WGs consider whether NG-RAN can collect the per UE EC information and send to 5GC (e.g., through N2 message or GTP-U header extensions).

**2. Actions:**

**To RAN, RAN1, RAN2, RAN4.**

**ACTION:** SA2 invites RAN, RAN1, RAN2 and RAN4 to investigate whether and how the gNB can estimate the base station energy consumption per UE level.

**3. Date of Next SA2 Meetings:**

3GPP SA2#165 14-18 October 2024 Hyderabad, India

3GPP SA2#166 18-22 November 2024 Orlando, America