3GPP TSG-RAN WG3 Meeting #127-bis R3-25xxxx

Wuhan, China, 7-11 April, 2025

**Title: [Draft] Reply LS on energy saving indication from CN to RAN**

**Response to: LS R3-250024/** **S2-2413034 on energy saving indication from CN to RAN from SA2**

**Release: Rel-19**

**Work Item: Netw\_Energy\_NR\_enh-Core**

Source: Huawei, CATT, NEC [to be RAN3]

**To: SA2**

**Cc: RAN2**

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

**Attachments:** None

# 1 Overall description

RAN3 thanks SA2 for their LS on energy saving indication from CN to RAN.

RAN3 discussed the open points with RAN3 impact captured in CR 23.501#5739. It is RAN3 understanding that the energy saving indicator enables RAN to apply energy saving schemes on a per UE-level and does not depend on the UE’s radio capabilities. There were different opinions in RAN3 on whether it would be beneficial for the RAN to receive this indicator, and no consensus was reached:

* Majority companies in RAN3 does not see clear benefits and think that QoS related mechanisms could serve the same purpose
* Some other companies think that this is a misconception of the SA2 approach, and such “QoS approach” would not allow RAN to react in case of excessive energy demand to serve the UE and require in addition a control-loop by which the RAN would need to indicate current per-UE energy consumption so that the CN is able to lower the QoS. The indicator would be beneficial, for example, in the following way: it is not possible today for RAN to serve UEs at cell edge considering that some users may accept some performance degradation and others not. If the RAN receives this indicator, it can take this into account and apply differentiated strategy related to network energy saving operations for the UE who is provided with the indicator.

If the indicator is provided to the RAN, it will be up to RAN implementation whether, when and how to use the information.

# 2 Actions

**To SA2:**

**ACTION:** RAN3 respectfully asks SA2 to take above information into account, and provide feedback if needed.

# 3 Dates of next RAN3 meetings

Updated meeting schedule can be found at: <https://portal.3gpp.org/?tbid=373&SubTB=381#/>

RAN3#128 2025-05-19 - 2025-05-23 Malta, MT

RAN3#129 2025-08-25 - 2025-08-29 Bangalore, IN

RAN3#129-bis 2025-10-13 - 2025-10-17 Prague, CZ

RAN3#130 2025-11-17 - 2025-11-21 Dallas, US