



Question(s): 6/5

Geneva, 13-22 November 2023

Ref.: [SG5-TD1185-R1](#)

Source: ITU-T Study Group 5

Title: LS/r on energy efficiency metrics and methodologies (reply to [3GPP TSG SA5-S5-236930](#))

LIAISON STATEMENT

For action to: 3GPP TSG SA5

For information to: ETSI TC EE

Approval: ITU-T Study Group 5 meeting (Geneva, 22 November 2023)

Deadline: –

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Abstract: This document contains the liaison statement that will be sent to 3GPP TSG SA5 as a reply to [3GPP TSG SA5-S5-236930](#).

ITU-T SG5 would like to acknowledge the reception of the liaison [3GPP TSG SA5-S5-236930](#).

Pertaining to that liaison, ITU-T SG5 would like to inform 3GPP SA5 that:

- Regarding Recommendation ITU-T L.1331 “Assessment of mobile network energy efficiency”, a new work item has been started in the ITU-T Study Group 5 meeting (Geneva, 13-22 November 2023). This new WI will also gather updates on the Recommendation according to the items ITU-T SG5 exchanged in previous liaisons and on which you inform us you will be working in Release 18 (latest updates) and Release 19 (new topics). An alignment on these points is welcome in the next months. In particular, the new WI scope is based on the following items:
 - Investigation of the definition of new energy efficiency (EE) KPIs that consider aspects such as coverage area, user experience, reliability of ultrareliable low-latency communications (URLLC) network slice.
 - Specifying new EE KPIs for network slices, e.g., EE KPI for V2X, EE KPI for URLLC based on reliability.
 - Integration of energy consumption (EC) metrics for network functions (NF) composed by virtual network functions (VNFs) and evolutions such as containerized VNFs.
- Regarding Multi-Dimensional EE, the current status of the activities (also considered in the above-mentioned new WI) is related to the inclusion of quality measurements for the case

of enhanced Mobile Broadband (eMBB) set of use cases. The WI will further investigate similar measurements for the URLLC and massive Machine-Type Communications (mMTC) cases.

ITU-T SG5 would appreciate an update of the latest status on these topics from 3GPP SA5 after the next meetings, as scheduled and reported on in the liaison received.
