3GPP TSG-RAN2 Meeting #121 R2-23xxxxx

Athens, Greece, 27 February – 3 March 2023

**Title:** DRAFT LS on the use of PEI during an emergency PDU session

**Response to:**

**Release:** Rel-17

**Work Item:** NR\_UE\_pow\_sav\_enh-Core

**Source:** Ericsson

**To:** 3GPP SA WG2, 3GPP RAN WG3

**Cc:** 3GPP CT WG1

**Contact Person:**

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**Attachments**: None

**1. Overall Description:**

RAN2 discussed the use of PEI during an emergency PDU session, and RAN2 observed that disabling UE-ID based PEI for CM-IDLE paging (Paging on NG) and CM-CONNECTED paging (RAN paging on Xn/F1) during an emergency PDU session is not supported:

* The UE-ID based PEI capability (*pei-SubgroupingSupportBandList-r1*7) is signalled in the PAGING message (*UERadioPagingInformation*) either from AMF or from the last serving gNB. Based on the UE capability and gNB’s configuration (*PEI-Config-r17*) UE-ID based PEI is used even when the UE has an emergency PDU session.
* The latency introduced by UE-ID based PEI (similar as for CN-assigned PEI) depends on the configured time offset between PEI and the following Paging Occasion (PO) e.g. 50 ms.

This means that when the UE has an emergency PDU session the CN-assigned PEI (PEIPS Assistance Information) is not used during an emergency PDU session, but UE-ID based is used during an emergency PDU session.

**2. Actions:**

**To RAN3/SA2:**

**ACTION:** RAN2 kindly asks SA2 and RAN3 to take this information into account and make any corrections if deemed necessary (in Rel-17 or a later release).

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

TSG RAN2 Meeting #121bis-e 17 - 26 April 2023 E-meeting

TSG RAN2 Meeting #122 22 - 26 May 2023 Republic of Korea