**3GPP TSG-RAN3 Meeting #111-e Draft-R3-211088**

**Online, 25th January - 5th February 2021**

Title: E-RABs that cannot be handed over to 2G/3G or 5G

Response to:

Release: 3GPP Rel-15

Work Item: TEI 15

Source: Ericsson

To: 3GPP SA2, 3GPP CT1

Cc:

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

Attachments:

**1. Overall Description:**

RAN3 has discussed the below issue: when perform SRVCC from 4G to 3G, if the UE was early handed over from 5G and having the PS bearer (no voice) from 5G, eNB would perform SRVCC with two Iu connections and informs the target RNC. But the SGSN relocation request may never be sent to the target RNC due to the E-RAB established in 5G does not contain Transaction Identifier (TI). This cause the SRVCC delay and even unnecessary failure.

The issue is general, with the introduction of NR, the PS bearers set up to 5G may not be able to handover to 2G/3G or vice versa, e.g.: 5G without TI cannot be handed over to 2/3G; PDNs setup in LTE with flags: “5GSIWK” or “5GCNRI” is set to 1 and sent to PGW/SMF, cannot be handed over to 2/3G either, because these PDNs are allocated with 5G PDU session ID and 5G QoS, etc. Similarly, some E-RAB from 2G/3G cannot be handed over to 5G. eNB does not have the information which PS bearer can be handed over to 2G/3G or 5G, so during handover (including SRVCC), the mobility procedure may cause delay or failure.

RAN3 would like to ask SA2 and CT1 to investigate how we can solve the problem,

**2. Actions:**

**To SA2 group.**

**ACTION:** RAN3 kindly asks feedback and guidance from SA2 and CT1

**3. Date of Next RAN3 Meetings:**

RAN3#112 17th – 28th May 2021 Online