3GPP TSG RAN WG2 Meeting #116bis-e R2-220xxxx

Electronic meeting, 17th-25th January 2022

**Title:** [draft] LS on RAN3 impacts for non-SDT handling

**Release:** Rel-17

**Work Item:** NR\_SmallData\_INACTIVE-Core

**Source:** Intel Corporation (to be RAN2)

**To:** RAN3

**Cc:** SA3, CT1

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# 1 Overall description

For the CCCH solution, when there is data for a non-SDT radio bearer, the UE aborts the ongoing SDT session before the network would have sent a *RRCRelease* message with new I-RNTI or security key information. In this case, the UE will send a second *RRCResumeRequest* message using the I-RNTI that was issued by the old anchor gNB and performs horizontal key derivation. The *ResumeMAC-I* is expected to be calculated as discussed in [Reference to SA3 LS].

RAN2 would like to ask RAN3:

* **Q1:** Which node (old anchor gNB or serving gNB) will process the second *RRCResumeRequest* message with I-RNTI associated to the old anchor gNB and will perform *ResumeMAC-I* verification and key derivation?
* **Q2:** From RAN3 point of view, does the old anchor gNB and/or the serving gNB need to distinguish the second *RRCResumeRequest* message via any explicit indication sent from UE?

# 2 Actions

**To RAN3**

**ACTION:**

RAN3 is respectfully requested to reply the above questions (Q1 and Q2) and provide any additional feedback on the proposed solutions, if any.

# 3 Dates of next TSG RAN WG2 meetings

RAN2#117-e 21st February to 03 March 2022, E-meeting

RAN2#118-e 16th to 27th May 2022, E-meeting