3GPP TSG SA WG2 Meeting #143-e S2-21xxxxx

Electronic, 24 Feb – 09 Mar, 2021

**Title: LS on System support for Multi-USIM devices**

**Response to: S2-2009092 / R2-2011241**

**Release: Rel-17**

**Work Item: FS\_MUSIM**

**Source: SA2**

**To: RAN2**

**Cc: RAN3, SA3**

**Contact person: Sašo Stojanovski**

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

**Attachments:** None

# 1 Overall description

SA2 thanks RAN2, RAN3 and SA3 for their replies.

SA2 would like to inform RAN2, RAN3 and SA3 that SA2 has started normative work on MUSIM. To finalize the work, SA2 provides the following questions for feedback to RAN2:

**Q1**) In relation to the following NOTE in TR 23.761 Clause 8.1:

*NOTE 2: Whether and how the UE discriminates (if needed) between paging for non-voice service and paging from legacy RAN node is FFS and will be determined during normative phase.*

SA2 has concluded that the UE shall be able to discriminate the case where it is being paged for non-voice service from the case where it is being paged (for any service) by a legacy RAN node. SA2 understands that the solution for this problem is in RAN2 scope and kindly asks RAN2 to design a solution.

**Q2**) Regarding enabling of paging reception for 5GS, SA2 has agreed that when a MUSIM device detects a paging collision, the MUSIM device may send a mobility Registration Request to the AMF, after which the AMF allocates a new 5G GUTI in the Registration Accept message as described in clause of 6.12.3 in TS 33.501.

However, there is currently no consensus in SA2 whether this mechanism alone is efficient enough, or whether the use of the Registration procedure would benefit from any of the following additional enhancements:

- **E1**: UE and AMF keep track of an additional UE-ID (different from 5G-GUTI) that is used for the purpose of PO/PF calculation. The additional UE-ID is unaffected by the 5G-GUTI reassignment and remains constant for long time (e.g. as long as UE is connected to the same AMF).

- **E2**: As part of the Registration Request the UE provides assistance information (which is TBD and up to RAN2 to determine) that assists the AMF in assigning a new 5G-GUTI so that the new 5G-GUTI is guaranteed to remove the collision.

SA2 would like to ask RAN2 to provide feedback on the additional benefits of using these enhancements (E1 and E2) for collision avoidance, on top of the basic 5G-GUTI reassignment provided by the Registration procedure.

# 2 Actions

**To RAN2**

**ACTION:** SA2 kindly asks RAN2 to take into consideration the information above and provide answers to questions.

# 3 Dates of next TSG SA WG 2 meetings

SA2#144E 12-16 April Electronic meeting

SA2#145E 17-28 May Electronic meeting