**3GPP TSG-CT WG1 Meeting #141eC1-232045**

**Online 17– 21 April 2023**

Title: LS on Handling of SOR counter and the UE parameter update counter if stored in NVM

Response to: --

Release: Rel-18

Work Item: 5GProtoc18

Source: CT1

To: SA3

Cc: -

**Contact Person:**

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Attachments: none

**1. Overall Description:**

The SOR counter and the UE parameter update counter are optionally stored in EF5GAUTHKEYS if Service n°133 is also "available" in EFUST, otherwise the UE shall store these parameters in NVM. If KAUSF is stored on the USIM and the SOR counter and the UE parameter update counter are not present on the USIM, the parameters stored in NVM are considered as valid after power up, if the stored SUPI is equal to the SUPI of the inserted USIM. However, the USIM could have been used in a different ME-2 in the meantime and a new authentication could have been triggered in the ME-2. In this case if the USIM is re-inserted in ME-1, ME-1 would apply the outdated previously stored counters, i.e., the counters stored in the NVM of ME-1 related to the previous KAUSF might be higher than the counters used in the context of the new KAUSF. In consequence new SOR messages would be ignored due to outdated counter values store in NVM.

**2. Actions:**

**To SA3 group.**

**ACTION:** CT1 kindly asks SA3 to study the problem outlined above and take the appropriate actions.

**3. Date of Next CT1 Meetings:**

CT1#142 22nd – 26th May 2023 Bratislava

CT1#143 21st – 25th August 2023 Goteborg

CT1#144 9th – 13th October 2023 China (TBC)

CT1#145 13th – 17th November 2023 Chicago