**3GPP TSG-CT WG4 Meeting #99eC4-204337**

**E-Meeting, 18th – 28th August 2020**

Title: LS on AUSF/UDM discovery based on SUCI information

Release: Rel-17

Work Item: SBIProtoc17

Source: CT4

To: SA2

Cc: CT, SA, SA3

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Attachments: C4-204078 (DISC paper), C4-204339 (Rel-17 CR 29.510)

**1. Overall Description:**

CT4 has analyzed the issue of insufficient length of Routing Indicator within SUCI, see attached discussion paper in C4-204078 for details. The current 4 digits of the Routing Indicator enables only 10 K ranges of subscriptions, which may not provide enough granularity and flexibility for moving subscriptions across UDRs not controlled by the same AUSF/UDM, for operators with a large number of subscriptions (e.g. 100 K users per range for a PLMN with 1 billion subscriptions).

CT4 agreed that the above limitation should be addressed. CT4 has also discussed the solution proposed in C4-204339 (attached) for solving this problem, enabling to use the Home Public Key ID as an additional parameter (that allows to encode e.g. a 5th digit, in addition to the key ID on 4 bits) for the discovery of the AUSF/UDM. CT4 would be fine in principle to specify this solution in Rel-17, provided corresponding stage-2 requirements are agreed first.

**2. Actions:**

**To SA WG2 group**

**ACTION:** CT4 kindly asks SA2 to consider specifying stage 2 enhancements for selection of AUSF/UDM based on SUCI in Rel-17 to address the reported issue.

**3. Date of Next CT4 Meetings:**

3GPP TSG CT4#101e 11/2020 E-Meeting