**3GPP TSG-CT WG4 Meeting #99eC4-204421**

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

Title: LS on Counter of UEs Registering Network Slice

Release: Rel-16

Work Item: SBIProtoc16

Source: CT4

To: SA5, SA2

Cc: CT1

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Attachments: C4-204441

**1. Overall Description:**

CT4 is now working on implementing the requirement of counting Registered subscribers of network and network slice through UDM, as specified in 3GPP TS 28.554, clause 6.2.2:

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6.2.2 Registered subscribers of network and network slice through UDM

a) UDMRegNbr.

b) This KPI describe the total number of subscribers that are registered to a network slice instance. It is corresponding to the measurement RM.RegisteredSubUDMNbrMean that counts subscribers registered in UDM. It is an Interger. The KPI type is CUM.

c) 

d) SubNetwork, NetworkSlice

CT4 have agreed the attached Rel-16 CR which allows AMFs to indicate to which network slices the UE is registered. During the discussion in CT4, the following questions have been raised regarding the stage-2 requirement:

**Question1**: For a given UE, which S-NSSAIs are considered as being registered to and thus be signalled by AMF to UDM, E.g. the S-NSSAIs contained in the “Allowed NSSAI” most recently sent to the UE?

**Question2**: In a single registration scenario, when the UE handover/TAU to 4G and consequently the UDM sends a deregistration notification to the AMF, is the UE considered as deregistered from the network slice? In a dual registration scenario, when the UE handover/TAU to 4G and consequently the UDM does not send a deregistration notification to the AMF, is the UE still considered as registered to the network slice?

**Question3**: If the UE newly registers via 3GPP while it is already registered via non-3GPP access (or vice versa) shall the UE be counted once or twice?

**2. Actions:**

**To SA WG5 group**

**ACTION:** CT4 kindly asks SA5 to provide their answers to above questions.

**To SA WG2 group**

**ACTION:** CT4 kindly asks SA2 to consider whether corresponding procedures need to be specified, e.g. when the event which will impact the counting of UEs registered to network slice happens, the AMF shall update the registration in the UDM accordingly.

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

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