**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 their supported network slices to the UDM during AMF registration. During the discussion in CT4, the following questions have been raised regarding the stage-2 requirement:

**Question1**: Is it sufficient to extend AMF registration request messages with the list of S-NSSAIs supported by the AMF (as proposed in the attached CR) with the understanding that the UDM can filter the slices allowed for the UE and update counters accordingly?

**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 not be counted 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 whether new procedures need to be specified, or whether enhancing the existing AMF registration procedures with a new optional input (i.e. list of S-NSSAIs supported by the AMF) is sufficient.

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

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