**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: <revision of C4-204126>

**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**: For a given UE, which S-NSSAIs are considered as being registered to, E.g. the S-NSSAIs contained in the “Allowed NSSAI” most recently sent to the UE?

CT4's assumption so far is that the AMF reports all supported network slices to the UDM while the UDM updates counters only for the slices that are subscribed by the UE.

**Question2**: When the UE handover/TAU to 4G, is the UE still considered as registered to the network slice?

CT4's assumption so far is that in single registration scenarios, i.e. when a deregistration notification is sent from UDM to AMF due to a UE's 4G registration, the UE is no longer registered after handover/TAU to 4G.

**Question3**: If the UE registers via 3GPP and non-3GPP accesses in parallel, is the UE counted once or twice?

CT4's assumption is that the UE is counted once, i.e. the UDM, when receiving an AMF registration for 3GPP access / non-3GPP access, takes into account the existing AMF registration for non-3GPP access / 3Gpp-access before updating the counter.

**2. Actions:**

**To SA WG5 group**

**ACTION:** CT4 kindly asks SA5 to confirm CT4's assumptions.

**To SA WG2 group**

**ACTION:** CT4 kindly asks SA2 to consider whether corresponding procedures need to be specified, e.g. adding the set of the AMF's supported S-NSSAIs as optional input to the Nudm\_UECM\_Registration service operation when used by the AMF in TS 23.502 clause 5.2.3.2.1.

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

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