**3GPP TSG-CT WG4 Meeting #99eC4-204437**

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

Title: LS on SMSF Registration Notification Flag

Response to: -

Release: Release 16

Work Item: 5G\_eSBA

Source: CT4

To: SA2

Cc: -

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Attachments: none

**1. Overall Description:**

During the discussion of a proposed CR to add a new resource for SMSF Registration Notification Flag to subscription data on UDR, CT4 came to the conclusion that such a dedicated flag is not required, as when UDM can check mwdList within Message Waiting Data and alerts service centres stored once UDM detects that an SMSF has registered, which can serve the purpose.

However, the stage 2 as described in TS 23.502 clause 4.13.3.9 indicates that a dedicated SMSF registration notification flag is required to realize such notification to service centres:

*- When the AMF detects UE activities, it notifies UDM with UE Activity Notification as described in clause 4.2.5.3. If the UE is registered in an SMSF, the UDM clears its URRP-AMF flag and alerts related SCs to retry MT-SMS delivery. Otherwise, if the UE is not registered in an SMSF, the UDM clears its URRP-AMF flag and sets the SMSF registration notification flag to notify the SC upon subsequent SMSF registration for the UE.*

*- When the SMS-GMSC requests routing information from UDM for a UE not registered in 5GC, or for a registered UE which has not been yet registered for SMS service, the UDM reponds to the SMS-GMSC that the UE is absent, stores the SC address in the MWD list (if not yet stored) and indicates that to the SC as defined in TS 23.040 [7]. The UDM also sets an internal SMSF registration notification flag to notify the SC upon subsequent SMSF registration for the UE.*

 *When the UDM receives an Nudm\_UECM\_Registration Request from an SMSF for a UE for which the SMSF registration notification flag is set, the UDM clears the flag and alerts the related SCs to retry the MT-SMS delivery.*

Therefore, CT4 would like to ask SA2 whether a dedicated flag is required or not, and if not to consider updating the relevant procedure.

**2. Actions:**

**To SA2 group.**

**ACTION:** CT4 kindly asks SA2 to consider whether a dedicated SMSF Registration Notification Flag is required, and to update TS 23.502 if the purpose can be achieved by other means, e.g. an implicit indication.

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

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