**3GPP TSG-CT WG4 Meeting #111-eC4-224408**

**E-Meeting, 18th – 26th August 2022**

Title: LS on service operation used in AMF relocation in Inter PLMN handover procedure

Response to:

Release: Release 17

Work Item: TEI17

Source: CT4

To: SA2

Cc:

**Contact Person:**

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Attachments: C4-224XXX

**1. Overall Description:**

CT4 has discussed the support of the following requirement specified in clause 4.9.1.3 of 3GPP TS 23.502 on AMF relocation in Inter PLMN handover procedure:

*Step3: If target AMF re-allocation is needed, e.g. due to the inter PLMN handover, the initial AMF invokes Namf\_Communication\_RelocateUEContext request (SUPI, Target 5GAN Node ID, Source to Target Transparent Container, 5GS MM Context, PDU Session ID and its associated S-NSSAI of the VPLMN value for each PDU Session, the corresponding S-NSSAI of HPLMN value for home routed PDU Session(s), Allowed NSSAI, N2 Notify URI) to the selected final target AMF. The N2 Notify URI is the N2 Notify URI of the source AMF, which is used by the T-AMF to send N2 handover notify to the S-AMF. If the information about active analytics subscriptions are received from S-AMF, it is also included them in the Namf\_Communication\_RelocateUEContext request.*

*Step12: If target AMF re-allocation is executed in step 3, the selected final target AMF, i.e. T-AMF, invoke Namf\_Communication\_RelocateUEContext Response (Cause, N2 information necessary for S-AMF to send Handover Command to S-RAN including Target to Source transparent container, N2 SM information (PDU Sessions failed to setup list, N3 DL forwarding Information), PCF ID, PCF reselected indication, target AMF ID) to the initial AMF. The cause indicates whether the Relocate UE Context (hand-Over) succeeded or failed. If the target NG RAN has rejected the Handover Request in step 10, the cause indicates a failure due to RAN rejection. The target AMF ID is used for S-AMF to transfer RAN Status to T-AMF directly. Based on the receiving Namf\_Communication\_RelocateUEContext Response, the initial AMF invokes Namf\_Communication\_CreateUEContext Response.*

The RelocateUEContext service operation is supported in EPS to 5GS handover using N26 interface with AMF re-allocation in clause 4.11.1.2.2 of 3GPP TS 23.502, CT4 has identified the following issues to reuse the service operation in AMF relocation in Inter PLMN N2 handover procedure:

- this would require to extend the RelocateUEContext service operation to support several parameters received in CreateUEContext service operation;

- this would require significant changes to the target AMF implementation since the call flows are very different for the inter-system and intra-system handovers;

- this would cause backward compatibility issue as mandatory IE defined in RelocateUEContext is not needed for AMF relocation in Inter PLMN handover procedure.

Based on these, CT4 has agreed the attached CR to reuse the CreateUEContext service operation instead of the RelocateUEContext service operation. CT4 would like SA2 to consider aligning the stage 2 specification.

**2. Actions:**

**To SA3 group.**

**ACTION:** CT4 kindly requests SA2 to take the above information into consideration and consider aligning the stage 2 specification.

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

3GPP TSG CT4#112e 10/2022 E-Meeting