**3GPP TSG-SA WG2 Meeting #153-e S2-220xxxx**

**E-Meeting, 10 - 17 October 2022**

**Title:** LS on re-establishment of the MBS context during mobility registration update or service request procedure

**Response to:** -

**Release:** Rel-18

**Work Item:** FS\_5MBS\_Ph2

**Source:** SA2

**To:** CT1

**Cc:** -

**Contact Person:**

#### Name: Xiaoyan Duan

E-mail Address: duanxiaoyan@catt.cn

**Send any reply LS to: 3GPP Liaisons Coordinator,** [**mailto:3GPPLiaison@etsi.org**](mailto:3GPPLiaison@etsi.org)

Attachments: -

**1. Overall Description:**

SA2 is concluding the study of 5G MBS Phase 2 and on KI#1 "MBS session reception in RRC Inactive" one of the conclusions is as follows:

"- When the UE receives the MBS data in RRC Inactive state and move out of the RNA area but Connection resume fails, it follows existing procedures and transition to CM-IDLE. When the UE transition to CM-IDLE since is not able to receive the MBS multicast data at the new cell, the UE initiates the mobility registration update or Service Request procedure and activates the associated PDU session, so that the shared tunnel (if not already established) or the individual delivery can be established towards the NG-RAN node for multicast data delivery to the UE."

Based on this conclusion, the possible procedures for triggering multicast MBS session establishment in the new NG-RAN node can be:

Alt-1: The UE initiates the mobility registration update (or service request) procedure, indicating the "PDU Session status" of the associated PDU session as "established" (i.e. "not INACTIVE" as specified in TS 24.501) in Registration Request (or Service Request) message.

Alt-2: The UE initiates the mobility registration update (or service request) procedure, indicating the associated PDU session in the List Of PDU Sessions To Be Activated (i.e. "Uplink data status" IE as specified in TS 24.501) in Registration Request (or Service Request) message.

Alt-3: The UE initiates the mobility registration update (or service request) procedure, including the "PDU Session status" of the associated PDU session as "established" and MBS session information container (similar to the "Requested MBS container" IE in the PDU Session modification request message as specified in TS 24.501 in Rel-17) in Registration Request (or Service Request) message.

Regarding these alternatives, SA2 would like to ask CT1 the following questions:

* which alternative, Alt-1 or Alt-2, fits the current design in CT1 for multicast MBS session join;
* whether the optimization in Alt-3 is feasible.

**2. Actions:**

**To CT1:**

**ACTION:** SA2 kindly asks CT1 to provide feedback to the above questions.

**3. Date of Next SA2 Meetings:**

SA2#154 November 14 – 18, 2022 Toulouse, FR

SA2 Ad Hoc TBD January 16 – 20, 2022 TBD