**3GPP TSG-CT WG4 Meeting #111-eC4-224417**

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

Title: LS on Multicast MBS session Deactivation and Reactivation

Release: Rel-17

**Work Item:** **5MBS**

Source: CT4

To: SA2

Cc: RAN3

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Attachments: *None*

**1. Overall Description:**

CT4 kindly ask SA2 to answer the following questions.

**Q1:** During the MBS session deactivation procedure, does the MB-SMF instruct the MB-UPF to stop the forwarding of DL MBS data towards the N3mb DL F-TEIDs configured in the MB-UPF for the MBS session?

**Q2:** If the answer to Q1 is yes, when the multicast traffic resumes (i.e. first packet arrives at MB-UPF), does the forwarding of MBS data towards the N3mb DL F-TEIDs only resume at step 15 of the MBS session activation call flow (Figure 7.2.5.2-1), i.e. after the MB-SMF activates the multicast MBS session towards the AMF(s) (and NG-RAN nodes) and receives a successful response from the AMF (and a first NG-RAN node)?

Clause 6.7 (User plane management) of TS 23.247 specifies:

*- If the SMF wants to maintain the MBS data reception over N19mb but suspends the delivery of the data to the UE's PDU session, the Action of FAR set to "drop" (e.g. when the UE is switching from 5GC Individual delivery to 5GC Shared delivery due to the UE moving from MBS non-supporting NG-RAN to MBS supporting NG-RAN). Otherwise the SMF remove the related PDR and FAR.*

Clause 7.2.2.2 (Multicast session leave requested by the UE) specifies:

*4. [Conditional] If the UPF indicates the tunnel release (i.e. unicast transport was used), the SMF invokes Nmbsmf\_MBSSession\_ContextUpdate Request (Release, MBS Session ID, tunnel information) to release the tunnel between UPF and MB-UPF for this multicast MBS session. The MB-SMF determines whether the context update is for tunnel release or create based on whether the tunnel information exists in the multicast MBS Session Context stored in the MB-SMF or not.*

Clause 7.2.5.3 (MBS session deactivation procedure) specifies:

*2. The MB-SMF send N4mb Session Modification Request (TMGI, Buffered Downlink Traffic detection) to the MB-UPF. See clause 4.4 of TS 23.502 [6] for more details. The Buffered Downlink Traffic detection is requested by MB-SMF for next time MBS session activation. If the MBS session is to be activated via the AF request directly, this indication is not needed. The MB-SMF also indicates the MB-UPF to remove the shared tunnel(s) that are used for Individual MBS traffic delivery over N19mb interface.*

**Q3:** Does SA2 confirm that during an MBS session deactivation procedure, the SMF shall never try to maintain the N19mb tunnels and shall not send any signaling towards the MB-SMF to tear down the N19mb tunnels (as it would do in other scenarios)?

**2. Actions:**

**To SA2 group.**

**ACTION:** CT4 kindly asks SA2 to answer the above questions and clarify stage 2 if necessary.

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

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