**3GPP TSG-SA WG6 Meeting #54-e S6-23xxxx**

**17th – 26th April 2023 (revision of S6-23xxxx)**

**Title: [Draft] LS on MBS service area update clarification**

**Response to:**

**Release: Rel-18**

**Work Item: MCOver5MBS, MBS\_Ph2**

**Source:** 3GPP TSG SA WG6

**To:** 3GPP TSG SA WG2, 3GPP TSG CT WG3

**Cc:** 3GPP TSG CT WG4

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

**Attachments:**

# Overall description

In public safety scenario, the service area may be changed due to the mobility of the group members. SA6 identifies a failure may be occurred during the MBS service area update, if the new service area is beyond the service area of the serving MB-SMF of the ongoing MBS session. As in clause 7.1.1.6 and 7.1.1.7 of TS 23.247, the NEF just directly send a “*Nmbsmf\_MBSSession\_Update Request to the MB-SMF forwarding the updated information received from the AF*”. This is also indicated in clause 4.4.29.3.3.3 of TS 29.522.

##### *4.4.29.3.3 Procedure for MBS session update*

*……*

*At the reception of this HTTP PATCH request for MBS session modification:*

*- ……*

*- if MBS session authorization is successful or when the NEF does not interact with the PCF, the NEF shall interact with the MB-SMF to request the modification of the corresponding MBS session at the MB-SMF as specified in 3GPP TS 29.532 [52];*

Currently, the MB-SMF and the NEF will return an error code *UNKNOWN\_MBS\_SERVICE\_AREA* to the AF if the MBS service area update fails. However, the AF/MC service server does not know how to proceed as such code may be due to the newly updated service area is beyond of the service area of the MB-SMF (case A), or there is no MBS deployment at that area at all (case B). The actions corresponding to the two cases are different e.g., create a new MBS session with the new MBS service area (case A), or switch to unicast PDU session (case B).

SA6 would like to ask SA2 and CT3 the following questions:

Q1. Please SA2 confirm, during the MBS session update with new service area, whether the NEF just forwards the updated information to the serving MB-SMF of ongoing MBS session?

Q2. If the answer to Q1 is YES, the current *UNKNOWN\_MBS\_SERVICE\_AREA* error code is not sufficient for the AF to take different actions as mentioned above. Will SA2 and CT3 define new error code for the above two cases?

Q3. If the answer to Q1 is NO, how the NEF will handle such MBS session update with new service area except the description in 23.247 and 23.522? Will SA2 and CT4 update your specification to reflect the potential new behaviour at the NEF?

# 2 Actions

**To <SA2>**

**ACTION: SA6 kindly asks SA2 and CT3 to consider above questions and provide the feedback.**

# 3 Dates of next TSG SA WG 6 meetings

SA6#55 22nd May – 26th May 2023 Berlin, Germany

SA6#56 21 – 25 August 2023 Gothenburg, Sweden