**3GPP TSG-WG SA2 Meeting #142E e-meeting *S2-2009083***

**Elbonia, November 16 – 20, 2020, 2020 (revision of S2-200xxxx)**

**Source: Nokia, Nokia Shanghai-Bell, Ericsson**

**Title: KI#6: Conclusion update**

**Document for: Approval**

**Agenda Item: 8.9**

**Work Item / Release: FS\_5MBS / Rel-17**

*Abstract: This contribution updates the conclusions for key issue 6 with mode details and addresses open editor´s notes.*

# Introduction

# 2. Text Proposal

It is proposed to agree the following changes for TR 23.757.

8.5 Key Issue #6: Local MBS service

The following agreements to support local MBS services apply as baseline for normative work:

- It shall be possible to support MBS session where the content is not location-dependent, but the distribution is limited to a certain area, and MBS sessions where the content is location-dependent.

- It shall be possible to locate MBS CN functions in proximity to NG RAN nodes serving the location area.

- For the case that the multicast service is only available within a limited area, the UE shall be able to obtain service area information of the multicast service, to enable the UE to trigger the session join procedure only within the location area.

- The UE shall be able to obtain service area information of the local multicast service (e.g. TAI list, cell IDs) via NAS signalling or via MBS service announcement.

- For the case that the MB service content is location-dependent (The content of the same MB service delivered to different sub-areas is different), it shall be possible that the UE is not aware of each sub-area in the available area information of the MB service.

- It shall be possible to hide the internal PLMN topology from AF (e.g., AF is not aware of cell or TA information).

- The network shall be able to enforce the area restriction for accessing a local MBS service.

- The 5GC and NG-RAN shall enforce the service area restriction of a local MBS service .

- If different location-dependent content is provided for an MBS session, the network shall be able to support multiple MB-UPFs as ingress points for an MBS session.

NOTE 1: It will be determined in the normative phase whether the network also supports multiple MB-SMFs.

NOTE 1: The solution for different location-dependent content can also be applied in a scenario where the same content is provided in distributed islands of the network to enable distinct local distribution trees with local ingress points.

- To support different location-dependent content, an additional identifier (e.g. area session identifier, FlowID) shall be assigned for each location area and used in combination with the multicast session ID (e.g. TMGI) in network internal signalling to identify a location dependent part of the multicast session.

NOTE 3: It will be determined in the normative phase where to storeinformation about a location dependent multicast sessions

- Information about the location dependent multicast service may be provided by an AF, or may be configured.

Editor's note: The conclusion of KI#6 should align with the conclusion of KI#1.

NOTE 2: Alignment based on progress/decision in RAN WGs will be performed as part of the normative phase.