**3GPP TSG-SA3 Meeting #105-e draft\_S3-214149-r1**

**e-meeting, 8 - 19 November 2021** *merge of S3-213954, S3-213955*

**Source: Qualcomm Incorporated, ZTE**

**Title: Conclusion of KI #1 and KI #2**

**Document for: Approval**

**Agenda Item: 5.9**

# 1 Decision/action requested

***This contribution proposes a conclusion of KI #1 and KI #2***

# 2 References

[1] 3GPP TS 33.246: " Security of Multimedia Broadcast/Multicast Service (MBMS) "

[2] 3GPP TS 33.850 v0.8.0: " Study on security aspects of enhancements for 5G Multicast-Broadcast Services (MBS) "

# 3 Rationale

It is proposed to conclude that user-plane based solution for MBS service registration and key delivery based on TS 33.246 [1] is optionally supported.

# 4 Detailed proposal

It is proposed that SA3 approve the below pCR for inclusion in the TR 33.850 [2].

**\*\*\*\*\* START OF CHANGES \*\*\*\*\***

## 7.1 Conclusions on Key Issue #1

Following conclusions are made on Key Issue #1: Authentication and authorization for multicast communication services:

* Solution #4 (Secondary based authentication and authorization) will form the basis for the authentication and authorization method for multicast PDU session and it is optional-to-use.
* Solution #6 and Solution #12 will be used as a basis for MBS service authentication and authorization. This is optional to implement in both UE and network.

## 7.2 Conclusions on Key Issue #2

Following conclusions are made on Key Issue #2 " Security protection of MBS traffic ":

* No normative work is needed for transport layer-based solution.
* Service-layer solution is used as a baseline for the normative work. MBSTF provides the security protection for MBS traffic. The MTK is used as a root key to derive application/protocol specific keys to protect (e.g., encrypt or integrity protect) MBS service traffic. This will be optional to implement in both UE and network.
* Every MTK is uniquely identifiable by its KID. In the UE joining procedure, MTK and KID are delivered to UE via control plane if the UE is authorized to the MBS service. This will be optional to implement in both UE and network.
* For a user-plane solution, Solution #12 will be used as a basis for the normative work. This is optional to implement in both UE and network.

**\*\*\*\*\* END OF CHANGES \*\*\*\*\***