**3GPP TSG-SA3 Meeting #103-e *draft\_S3-211813-r1***

**e-meeting, 17 - 28 May 2021** Revision of S3-21xxxx

**Source: Qualcomm Incorporated**

**Title: Evaluation of Solution #2**

**Document for: Approval**

**Agenda Item: 5.11**

# 1 Decision/action requested

***This contribution proposes to add evaluation of Solution #2.***

# 2 References

[1] TR 33.850 v0.5.0

# 3 Rationale

This contribution proposes to add evaluation of Solution #2.

# 4 Detailed proposal

It is proposed that SA3 approve the below pCR for inclusion in the TR [1].

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

### 6.2.3 Solution evaluation

The solution fulfils the potential security requirements given in the key issues#2&3. This solution protects the MBS traffic in service layer between the MBSF-U in the operator domain and the UE.

MUK is UE-specific key derived based on Kausf and Multicast\_group\_ID. K\_group is a one-to-many key to protect the MBS traffic, and is distributed and updated in user plane in a secure way.

This solution requires a new security protocol between the UE and the MBSF-C for mutual authentication and transport of the MBS keys.

Editor’s Note: Further evaluation if FFS.

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