**3GPP TSG-WG SA2 Meeting #140E e-meeting *S2-2005413***

**Elbonia, August 19 – September 1, 2020 (revision of S2-200xxxx)**

**Source: Huawei (Rapporteur)**

**Title: KI#1: Principles for categorization of Solutions for KI1**

**Document for: Approval**

**Agenda Item: 8.9**

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

*Abstract: This document is trying to find the common aspects of the solutions and achieve the interim conclusions.*

# 1. Introduction/Discussion

This document captures specific principles for 5G MBS.



























# 2. Text Proposal

It is proposed to capture the following changes vs. TR 23.757.

\* \* \* \* First change \* \* \* \*

# 7 Conclusions

## 7.X Conclusions for Key Issue #1: MBS session management

### 7.X.1 Interim requirements for conclusions

Conclusions will take into account the following agreed system requirements:

* For multicast solutions, signalling from the UE to the network to join a multicast session shall be supported by UE and network. Join/leave operation via CP (NAS) signalling shall be supported.

Editor’s Note: It is FFS if the network and UE shall support multicast session join/leave operation via UP e.g. IGMP Join/Leave.

* For N3 transport of the shared delivery method, GTP-U tunnelling using a transport layer IP multicast method and shared N3 (GTP-U) Point-to-Point tunnel shall be supported with support for QoS.
* Both 5GC Shared MBS traffic delivery method and 5GC Individual MBS traffic delivery method shall be standardized for multicast data delivery.
* The network shall be able to prepare and start the multicast traffic transmission for a MBS session after MBS service is started.
* The network shall support selection of MB-SMF or SMF (depending on solution) at session join.
* For N3 transport of the 5GC shared MBS delivery method, for unicast transport there shall be 1-1 mapping between MBS Session and GTP-U tunnel towards a RAN node, and for multicast transport there shall be 1-1 mapping between MBS Session and the GTP-U tunnel.

### 7.X.2 Interim Considerations for Evaluation

Evaluation should be based on the following principles for this study (subject to further discussions):

* Evaluation shall consider if a solution requires application to be aware of 5GS specific/internal information.

\* \* \* \* End of changes \* \* \* \*