**SA WG2 Meeting #143E e-meeting *S2-210xxxx***

Elbonia, February 24 – March 09, 2021

**Source: Samsung**

**Title: Service level definitions**

**Document for: Approval**

**Agenda Item: 8.9.2**

**Work Item / Release: 5MBS / Rel-17**

*Abstract: This document adds service level definitions to the new TS based on KI#2 conclusion.*

# Introduction

This document adds service level definitions to the new TS based on KI#2 conclusion of TR 23.757.

# Proposal

It is proposed to capture the following changes in TS23.247.

\* \* \* \* Start of 1st Change (ALL NEW TEXT) \* \* \* \*

# 2 References

[X] 3GPP TS 23.246: "Multimedia Broadcast/Multicast Service (MBMS); Architecture and functional description".

\* \* \* \* Start of 2nd Change (ALL NEW TEXT) \* \* \* \*

## 4.2 Definition of service levels

In 5G MBS, two service levels are defined that differ from Transport only mode and Full-Service mode of operation as defined in TS 23.246 [X]. Each service level consists of a series of requirements as shown below, meant to address different use cases of the 5GS.

- Basic service level, with mandatory requirements to be supported by all 5G MBS deployments. The following requirements are defined:

- Media transported transparently through the 5GS.

- Request received for multicast service.

- Efficient packet distribution from the 5GS ingress to (R)AN node(s).

- Efficient data delivery from (R)AN node(s) to the UE.

- Enhanced service level, with additional requirements on top of basic service level to be supported by specific use cases. Different requirements out of the set below may be necessary to address each use case:

- Local MBS service.

- User authentication and authorization.

NOTE 1: User authentication and authorization can be done by 5GS or AF or both, or even not needed for a multicast communication service.

- Explicit configuration of multicast session by network function external to the 5GS including Group member management.

- Enhanced QoS support.

NOTE 2: 5G MBS can provide different QoS other than default QoS for different multicast groups.

NOTE 3: Service level may also be referred to as function level.

The 5GC Shared MBS traffic delivery method is required in all 5G MBS deployments. The 5GC Individual MBS traffic delivery method is required to enable mobility when there is an NG-RAN deployment with non-homogeneous support of 5G MBS.

Editor’s Note: Whether there could be other cases using individual delivery is FFS.

\* \* \* \* End of Changes \* \* \* \*