**SA WG2 Meeting #154 eMeeting S2-220XXXX**

**Toulouse, France, Nov. 14 - 18, 2022 (revision of S2-20xxxxx)**

**Source: Samsung, OPPO**

**Title: Proposed Skeleton for Rel-18 AIMLsys TS**

**Document for: Agreement**

**Agenda Item: 9.21**

**Work Item / Release: AIMLsys / Rel-18**

*Abstract of the contribution: This contribution is to propose the TS skeleton for AIMLsys*

# 1 Discussions

The Rel-18 AIMLsys normative work is to describe how the 5G system to provide special assistance to support the Application layer AI/ML operation. Like many other 3rd party application services over the 5G system in the past, e.g. MBS, UAS, etc., it is the 3GPP specification documentation practice to have a dedicated TS to capture the normative descriptions for 3GPP specification to support specific 3rd party application service over the 3GPP system. Therefore, the specification on how 5GS assistance to support 3rd party Application layer AI/ML operation should be captured in a dedicated TS. The intent of this document is to discuss the skeleton of the new TS of the 5GS assistance to support 3rd party Application layer AI/ML operation if the new TS is agreed as part of the new WID.

# 2 Proposal

Title: Architecture Enhancements for 5G System Assistance to Application AI/ML-based Operations

Foreword

1. Scope
2. References
3. Definitions & abbreviations
   1. Definitions
   2. Abbreviations
4. Architecture model and concepts
   1. General concepts
   2. Architecture reference model
   3. Functional entities
   4. Identifiers
5. Functional Descriptions and Procedures
   1. 5GS Assistance for General Application AI/ML Operation
   2. 5GS Assistance for Federated Learning Operation
6. Service Descriptions

Annex A (informative): Change history

# 3 Conclusions

It is to adopt the skeleton as described in the clause 2 for the Rel-18 AIMLsys specification.