**3GPP TSG-RAN3 Meeting #129bis** **R3-257301**

**Prague, Czech Republic, Oct 13 - 17, 2025**

**Agenda Item:** 12.2.2

**Source:** Qualcomm Incorporated, ZTE

**Title:** (TP to TR 38.745) AI/ML Based Intra-CU LTM

**Document for:**Agreement

Introduction

This document provides text proposal to TR 38.745 for AI/ML based Intra-CU LTM.

<<<<<<<<<<<<<<<<<<<< First Change >>>>>>>>>>>>>>>>>>>>

4 Use cases and Solutions

4.1 AI/ML based Intra-CU LTM

4.1.1 Use case description

L1/L2 Triggered Mobility (LTM) is specified in TS 38.300 [x].

Intra-CU LTM is specified in TS38.401[x].

AI/ML can be used to optimise Intra-CU LTM procedures, e.g., to enhance Network and UE performance, optimize resource allocation and reduce mobility failures.

Intra-CU LTM scenarios other than Conditional LTM are considered as priority for study.

4.1.2 Solutions and Standard impacts

4.1.2.1 Locations for AI/ML Model Training and AI/ML Model Inference

For CU-DU split architecture, the following solutions are possible:

- AI/ML Model Training is located in the OAM and AI/ML Model Inference is located in the gNB-CU.

- AI/ML Model Training and Model Inference are both located in the gNB-CU.

4.1.2.2 Input data of AI/ML based Intra-CU LTM

*Editor’s Note: To be updated*

4.1.2.3 Output data of AI/ML based Intra-CU LTM

For AI/ML optimization of Intra-CU LTM the following information can be considered as output data:

* Candidate cell and beam for LTM HO Preparation