**3GPP TSG-RAN WG3 Meeting #117-bis-e R3-22xxxx**

**E-meeting, 10 – 18 October 2022**

**Title:** (TP for L1L2Mob BLCR for TS 38.401): Inter-DU L1/L2 Mobility procedure

**Source:** Huawei

**Agenda item:** 14.2

**Document Type:** Other

# 1. Introduction

This document contains the baseline procedure for intra-CU inter-DU L1/L2 mobility to reflect the discussion outputs in CB: # MobilityEnh1\_L1L2Mo.

# Annex. TPs to TS 38.401 BLCR

8.2.1.Y Inter-gNB-DU L1/L2 based Handover

This procedure is used for the case when the UE moves from one gNB-DU to another gNB-DU within the same gNB-CU during NR operation for L1/L2 based handover. Figure 8.2.1.Y-1 shows the intra-CU inter-gNB-DU L1/L2 based mobility procedure for intra-NR.



**Figure 8.2.1.Y-1: inter DU L1/L2 based handover**

1. The UE sends a *MeasurementReport* message (L3 measurement result) to the source gNB-DU. The source gNB-DU sends an UL RRC MESSAGE TRANSFER message to the gNB-CU to convey the received *MeasurementReport* message.
2. The gNB-CU determines whether to configure L1/L2 mobility based on the *MeasurementReport* message.
3. The gNB-CU sends a UE CONTEXT SETUP REQUEST message to the target gNB-DU to create the UE context and prepare radio resources.
4. If the preparation request is accepted, the candidate gNB-DU responds to the gNB-CU with a UE CONTEXT SETUP RESPONSE message including the generated RRC configuration for the target candidate cell(s).
5. The gNB-CU sends a DL RRC MESSAGE TRANSFER message to the source gNB-DU, which includes the generated *RRCReconfiguration* message.
6. The source gNB-DU forwards the received *RRCReconfiguration* message to the UE.
7. The UE responds to the source gNB-DU with an *RRCReconfigurationComplete* message.
8. The source gNB-DU forwards the *RRCReconfigurationComplete* message to the gNB-CU via an UL RRC MESSAGE TRANSFER message.
9. The UE sends L1 measurement result to the source gNB-DU.
10. The source gNB-DU sends L1/L2 inter-cell mobility command to the UE.

FFS: how the target gNB-DU detects the UE access and whether there is an F1 impact.

FFS: For inter-DU L1/L2 inter-cell mobility, whether and how to release the source cell/prepared cells’ resources in the source gNB DU is FFS.