**3GPP TSG-RAN WG3 #128R3-25xxxx**

**Malta, MT, 19th – 23rd May 2025**

**Agenda Item: 11.4**

**Source: Lenovo, CATT?, ZTE Corporation?, Samsung?, Ericcsson**

**Title: TP to BLCR 37.340 AIML for NR-DC**

**Document for: Discussion and Approval**

# Introduction

In this paper, text is proposed to capture the aspects related to AIML assisted SN addition and MN initiated SN change in NR-DC scenario at high level.

# TP to 37.340

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3.2 Abbreviations

For the purposes of the present document, the abbreviations given in TR 21.905 [1] and the following apply. An abbreviation defined in the present document takes precedence over the definition of the same abbreviation, if any, in TR 21.905 [1], TS 36.300 [2] and TS 38.300 [3].

AI Artificial Intelligence

BFD Beam Failure Detection

CHO Conditional Handover

CLI Cross Link Interference

CPA Conditional PSCell Addition

CPAC Conditional PSCell Addition or Change

CPC Conditional PSCell Change

DAPS Dual Active Protocol Stack

DC Intra-E-UTRA Dual Connectivity

DCP DCI with CRC scrambled by PS-RNTI

EN-DC E-UTRA-NR Dual Connectivity

IAB Integrated Access and Backhaul

IDC In-Device Coexistence

LTM L1/L2 Triggered Mobility

MCG Master Cell Group

ML Machine Learning

MN Master Node

MR-DC Multi-Radio Dual Connectivity

MUSIM Multi-Universal Subscriber Identity Module

NE-DC NR-E-UTRA Dual Connectivity

NGEN-DC NG-RAN E-UTRA-NR Dual Connectivity

NR-DC NR-NR Dual Connectivity

QMC QoE Measurement Collection

QoE Quality of Experience

RLM Radio Link Monitoring

SCG Secondary Cell Group

SMTC SS/PBCH block Measurement Timing Configuration

SN Secondary Node

SPR Successful PSCell Addition/Change Report

V2X Vehicle-to-Everything

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13.x AI/ML for NR-DC

In NR-DC, for MN that supports AI/ML for NG-RAN as specified in 38.300 [3], the MN can initiate SN addition or SN change based on AI/ML model inference located in MN.

The MN can also configure and collect UE performance feedback from the target SN, if supported by target SN, after successful SN addition or SN change.

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