3GPP TSG-RAN WG3 Meeting #124 R3-24xxxx

Fukuoka City, Fukuoka, Japan, 20th – 24th May, 2024

**Agenda item: 11.4**

**Source: Nokia, Huawei**

**Title: (TP for TR 38.743) Continuous Management-based MDT Data Collection**

**Document for: Text Proposal**

# 1 Introduction

This TP reflects the use case description for Continuous MDT collection targeting the same UE across RRC states.

# 2 Text Proposal for TR 38.743

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## 5.4 Continuous MDT collection targeting the same UE across RRC states

*Editor Note: Capture the description and its potential standard impacts.*

## 5.4.1 Use Case Description

The problem of continuous data collection for management-based MDT can be described as follows: a UE in the NG-RAN can be configured with management-based Logged MDT when in RRC\_Idle and RRC\_Inactive states and with management-based Immediate MDT when in RRC\_Connected state. Such continuous collection of data is beneficial only for AI/ML Model Training in OAM. Differently from signalling-based MDT, in management-based MDT, a UE is not uniquely identified in the MDT activation. Therefore, when a UE transits to RRC\_Connected state from RRC\_Idle/RRC\_Inactive (during which Logged MDT data have been collected) the network does not have standardized means to select again the UE for continuous MDT for successive Immediate MDT data collection.

The question about maintaining Data Collection continuity in this scenario is two-fold and it is related to:

* **Problem A (measurement continuity)**: how to ensure that the same UE collecting Logged MDT in RRC\_Idle and RRC\_Inactive states will be selected for Immediate MDT upon transition to RRC\_Connected state.
* **Problem B (trace correlation)**: how to ensure that the TCE which eventually receives the MDT reports can associate the received MDT measurements to a data collection session of measurements from the same UE

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