3GPP TSG-RAN WG3 Meeting #124 R3-243926

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

**Agenda item: 11.4**

**Source: Nokia, Huawei, Qualcomm, NEC**

**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. 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 same UE for continuous MDT for subsequent Immediate MDT data collection.

The Data Collection continuity in this scenario can be split into two tasks as below:

* **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, as well as how to ensure that a UE that hands over to a different gNB is selected for continuous management based MDT.
* **Problem B (trace correlation)**: how to ensure that the TCE which eventually receives the MDT reports can associate the received logged and immediate MDT measurements to a continuous data collection session from the same UE and during the data collection period.

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