**3GPP TSG-RAN WG3 Meeting #113-e R3-214349**

**E-meeting, 16-27 Aug 2021**

**Title:** (TPs for MDT BL CRs for TS 37.320): Discussion on propagation of user consent related information during Xn inter-PLMN handover

**Source:** Huawei

**Agenda item:** 10.3.2.1

**Document Type:** Discussion

# Introduction

This contribution contains a TP for MDT BL CRs for TS 37 as discussion in CB: # SONMDT10\_MDTEnh.

valid for the RPLMN.

# TP for MDT BLCR for TS 37.320 (TP for Proposal 2)

#### 5.1.2.3 MDT context handling during handover

The measurements configured in the UE for Immediate MDT should fully comply with the transferring and reconfiguration principles for the current measurements configured in the UE for RRM purpose during handover (including conformance with Rel-8 and Rel-9).

The target node releases the measurements configured in the UE for immediate MDT which are no longer needed based on any MDT trace configuration it receives or does not receive.

In addition, MDT configuration handling during handover and UE context retrieval depends on MDT initiation from OAM defined in clause 5.1.3:

- The MDT configuration configured by management based trace function will not propagate during handover.

- For LTE, the MDT configuration received by signalling based trace messages for a specific UE will propagate during intra-PLMN handover, and may propagate during inter-PLMN handover if the Signalling Based MDT PLMN List is available and includes the target PLMN. This behaviour applies also for MDT configuration that includes area scope, regardless of whether the source or target cell is part of the configured area scope.

- For UMTS, the MDT configuration received by signalling based trace messages for a specific UE will continue during intra-PLMN handover, and may continue during inter-PLMN handover if the Signalling Based MDT PLMN List is available and includes the target PLMN, except for the case of SRNS relocation.

- For NR, the MDT configuration received by signalling based trace messages for a specific UE will propagate during intra-PLMN handover, and may propagate during inter-PLMN handover or inter-PLMN UE context retrieval if the Signalling Based MDT PLMN List is available and includes the target PLMN. This behaviour applies also for MDT configuration that includes area scope, regardless of whether the source or target cell is part of the configured area scope.

NOTE: In the case of SRNS relocation, MDT may be reactivated by the Core Network following a successful relocation.

### 5.1.3 MDT Initiation

There are two cases that RAN should initiate a MDT measurements collection task. One is that the MDT task is initiated without targeting a specific UE by the cell traffic trace, i.e. management based trace function from OAM. The other is that the MDT task is initiated towards a specific UE by the signalling trace activation messages from CN nodes, i.e. the Initial Context Setup message, the Trace Start message or the Handover request message in E-UTRAN or NR, the CN Invoke Trace message in UTRAN. The detailed procedures to transfer the MDT configurations to RAN are specified in TS 32.422 [6].

For signalling based MDT, the CN shall not initiate MDT towards a particular user unless it is allowed.

For management based MDT, the CN indicates to the RAN whether MDT is allowed to be configured by the RAN for this user considering e.g. user consent and roaming status (see TS 32.422 [6]), by providing management based MDT allowed information. For E-UTRAN/UTRAN, the MDT allowed information consists of the Management Based MDT Allowed indication and optionally the Management Based MDT PLMN List. For NR, the MDT allowed information only consists of the Management Based MDT PLMN List. The management based MDT allowed information propagates during inter-PLMN handover or inter-PLMN UE context retrieval if the Management Based MDT PLMN List is available and includes the target PLMN.A UE is configured with an MDT PLMN List only if user consent is valid for the RPLMN.