3GPP TSG-RAN WG3 Meeting #120 R3-233340

Korea, 22 – 26 May, 2023

**Agenda item: 10.2.5**

**Source: Nokia - moderator**

**Title: Summary of discussions on CB # SONMDT6\_MDT**

**Document for: Approval**

# 1 Introduction

This paper provides summary of discussions at RAN3#120 on:

**CB: # SONMDT6\_MDT**

**- Check the scenario and potential issues**

**- Discuss the solution if needed**

(moderator - Nok)

further text

# 2 For the Chairman’s Notes

Proposal 1: There is no requirement that NR signalling based logged MDT has a lower priority than E-UTRAN signalling based logged MDT.

Proposal 2: There is no need to introduce cause value in NGAP to inform Core network and OAM that NR Signalling based logged MDT failed due to protection of LTE signaling based logged MDT.

# 3 Discussion

## 3.1 Feature description

The referenced papers discuss a feature as described in the following part of the Rel-18 SON/MDT WID (RP-221825):

**Scenario:**

- Support of signaling based logged MDT override protection to address **the scenario where the signaling based MDT is configured in E-UTRAN when [RAN2, RAN3]:**

* **UE reselects to NR while logged measurements are collected**
* **UE reselects to NR after logged measurements are collected and before uploading the logged MDT report.**

**Notification:**

This scenario is notified to the gNB by RRC signalling (RAN2’s “solution 2”).

## 3.2 Scope of protection of EUTRA-configured s-based logged MDT

During offline discussion it is proposed to check whether the following is agreeable:

**Proposal 1: In the discussed scenario, notified to the gNB by RRC signalling (see section 3.1), the gNB shall not configure the UE with s-based logged MDT (and not select the UE for m-based logged MDT).**

Please provide your view whether P1 is agreeable:

|  |  |  |
| --- | --- | --- |
| Company | Answer  (yes/no) | Comment |
| Nokia | Yes | This is a feature optionally activated by the network operator. Activation of the present feature may be done per geographical area or PLMN-wide. If the feature is not activated, the gNB will forward s-based logged MDT to the UE as per normal procedure, but still not select the UE for m-based logged MDT. |
| Huawei | Yes,but | The question needs clarification is that does RAN2 agrees that the s-based logged MDT for NR shall not override the ongoing s-based logged MDT for E-UTRAN in the UE?  If yes, then we are fine with P1. |
| ZTE | No | No evidence in the RAN2 to agree s-based logged MDT for NR shall not override the ongoing s-based logged MDT for E-UTRAN in the UE.  The gNB need to know the policy whether s-based logged MDT for NR can override ngoing s-based logged MDT for E-UTRAN in the UE. That is the reason OAM need to provide an indication for the gNB. |
| Lenovo | Yes |  |
| CATT | no | RAN2 only decided they will have a indicator to indicate UE has been configured s-based MDT, and gNB can not configure m-based mdt. |
| Samsung | FFS | Firs need to confirm if there is such requirement. If there is ,then P1 is agreeable. |
| Ericsson | No | The agreement of flagging that a UE is configured with Signalling Based Logged MDT to a gNB is based on the following intentions:   * Avoid impacts on LTE RRC and impact only NR RRC * Ensure that management based logged MDT does not overwrite Signalling based Logged MDT   Therefore there is no requirement that NR signalling based logged MDT has a lower priority than E-UTRAN signalling based logged MDT |

Moderator:

Tentative proposal: There is no requirement that NR signalling based logged MDT has a lower priority than E-UTRAN signalling based logged MDT.

## 3.3 NGAP cause value

3191 proposes:

**Proposal 2: A new cause value introduce in NGAP to inform Core network and OAM that NR Signalling based logged MDT failed due to protection of LTE ignaling based logged MDT.**

Is proposal 2 agreeable?

|  |  |  |
| --- | --- | --- |
| Company | Answer  (yes/no) | Comment |
| Nokia | No | The operator is aware that the feature described in section 3.1 is activated. No need to inform the CN. |
| Huawei | No strong view | Maybe needed if no proper existing cause value available. |
| ZTE | Yes | It is not guarantee that OAM for NR and OAM for E-UTRAN will have full co-ordination.  It is possible OAM for NR selects the same UE for S-based logged MDT, if the Operator prioritize LTE logged MDT than NR, then the S-based logged MDT of NR will failed. In this case, an appropriate cause value need to be select to inform AMF/OAM the failure reason. |
| Lenovo | No | Same view as Nokia. |
| CATT | No | **NR Signalling based logged MDT failed due to protection of LTE ignaling based logged MDT**  We are not sure whether this is a valid case, why the OAM of NR will think LTE S-based MDT is more important? |
| Ericsson | No | As explained in the previous reply, there is no requirement to protect E-UTRAN signalling based logged MDT over NR signalling based logged MDT |

Moderator:

Proposal: There is no need to introduce cause value in NGAP to inform Core network and OAM that NR Signalling based logged MDT failed due to protection of LTE signaling based logged MDT.

## 3.4 Other RAN3 specification impact

Do you see other specification impact in RAN3?

|  |  |
| --- | --- |
| Company | Comment |
| Nokia | We assume the notification (see section 3.1) will be provided in NR RRCSetupComplete and RRCResumeComplete messages. A question would be whether the notification is additionally provided in the RRCReconfigurationComplete message. If not, the notification needs to be further propagated to target gNB via network signalling in case of handover. |
| Huawei | Assume the UE will notify the network as well after handover. |
| ZTE | 1: If the impact is whether the indication need to be propagate from source gNB to target gNB, the answer is no. It is because based on RAN2’s mechanism, the indication will directly send to the target gNB via RRC.  2: Other impact of this user case is AMF need to provide an indication to gNB with the information whether S-based logged MDT of NR can or can not override on-going S-based logged MDT of E-UTRAN. |

# 4 Conclusion, Recommendations [if needed]

If needed

# 5 References

|  |  |
| --- | --- |
| [R3-232677](file:///C:\Users\z00274494\Downloads\Docs\R3-232677.zip) | Signalling based logged MDT override protection (Nokia, Nokia Shanghai Bell) |
| [R3-233191](file:///C:\Users\z00274494\Downloads\Docs\R3-233191.zip) | (TPs for MDT BLCRs for TS 38.413)MDT Enhancements (ZTE) |