3GPP TSG-RAN #91-e draft RP-21xxxx

Online, 16-26 March 2021

Agenda Item: 9.7.14

Source: RAN3 Chair (Moderator)

Title: Summary of Offline Discussion – Scope of SON/MDT

Document for: Discussion

# Introduction

RP-210736 (revision of 0277 - 1 co-signer added) proposes to add the following objective to the current SON/MDT WID: "The event triggered LTE MDT logging function, at least for out-of-coverage detection trigger."

A similar proposal was submitted to the last RAN2 meeting but was not treated.

**Proposal: Add event-triggered LTE MDT logging function, at least for out-of-coverage detection triggering.**

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| **Company** | **Comment** |
| Telecom Italia | We confirm our support |
| CMCC | In general, we are supportive of introducing the event-triggered logged MDT function in LTE. But regarding the original proposal in RP-210736 to include the objective in the Rel-17 SON/MDT, as rapporteur of this WI, we would like to make some clarifications. We understand this proposal is a pure LTE enhancement which is normally handled in LTE TEI work items. Nevertheless, the Rel-17 SON/MDT WI only focus on NR and EN-DC currently.  So in summary, we are fine to introduce the new function in LTE, whether to do it in LTE TEI or SON/MDT WI for NR and EN-DC needs to be checked. |
| CATT | We are OK to discuss event-triggered logged MDT function in LTE. However, currently, the CR was only proposed in RAN2, we are wondering whether the intention is just to introduce event-triggered logged MDT for management based MDT. If it also needs to be supported for signaling based MDT, then S1AP has to be updated.  As to whether to do it in LTE TEI or in SON/MDT WI, we do not have very strong opinion. Maybe LTE TEI is better since the current SON/MDT WI focus on NR and EN-DC. |
| vivo | We are fine to discuss event-triggered logged MDT, but we agree with CMCC on whether this should be considered in the current WI or TEI. |
| ZTE | We are fine with the intention and we think this can be treated in LTE TEI. |
| Qualcomm Incorporated | We understand that the intention is to detect “LTE” coverage holes. But the triggering condition for the “out-of-coverage” event today is when the UE enters any cell selection state. This means that the event is triggered when the UE also does not see NR coverage (NR suitable cell). So the solution as it is today only works with UEs supporting LTE only. Such UEs however are not very common going forward, especially given the proposal is to introduce the solution in release-17.  Detailed solutions can be discussed based on contributions under TEI. |
| Huawei | We share the same view as CMCC. RAN should strongly encourage RAN2 to treat this topic as soon as RAN2 will open TEI-17. |
| KDDI | We support the proposal. With regard to CMCC comment “LTE TEI or SON/MDT WI”, from our perspective both options are acceptable. |
| Samsung | We support the proposal. |
| Ericsson | We are in principle fine to introduce event based trigger for LTE logged MDT. However, it is arguable that there is no need to enhance logged MDT features for LTE now as the LTE coverage maps must be well known to the operators already. So, more time should be spent on the NR MDT enhancements than LTE MDT enhancements. It can therefore either be added as a low-priority objective in the Rel-17 SON/MDT WI or we add it as part of TEI-17 – no strong opinion. |
| Nokia, Nokia Shanghai Bell | One general comment: This contribution was submitted to LTE as a TEI17 item but wasn't treated because RAN2 had no time allocation for TEI17 yet. We would be fine to consider this in LTE TEI17 when RAN2 has TUs for that, but upscoping the **NR** SON/MDT WI with additional objectives seems unnecessary: The feature will not be completed any sooner.  Then we would like to clarify whether this feature intended only for LTE, or for both LTE and NR? Because the former can likely be done in TEI17, whereas the latter would require additional TUs for the WI. And in case this would be is added to the SON/MDT WI, what would be downscoped to accommodate the extra work? |
| China Unicom | We share the same view with CMCC to introduce the event-triggered logged MDT in LTE. Besides, we think it can be treated in TEI-17. |