**3GPP TSG-RAN WG2 #130 R2-25nnnnn**

**St Julian’s, Malta, 19-23 May 2025**

Agenda Item: 8.10.2.1

Source: Ericsson

Title: Remaining RRC Open issues for SONMDT feature

Document for: Discussion, Decision

# Introduction

The following document includes a list of open issues according to the following email discussion:

* [Post129bis][603][SONMDT] Running NR RRC CR for SONMDT (Ericsson)

Scope:

1. Update the running CRs based on the progress in the meeting
2. Create open issue lists

      Intended outcome:

* + - Updated running CR to be submitted to next meeting

     Deadline:

* + - Long

Companies are invited to provide feedback on open issue list by: **2nd May 2025**

# Remaining open issues for specification TS 38.331

### Issues on MRO for CHO with candidate SCG

**Open issue RRC-1:**Avoiding duplicated measurement reports in SHR and SPR

**Issue description:**

In RAN2#129bis meeting, discussion on near failure scenarios for CHO with candidate SCG resulted in below FFS-

* FFS whether it is needed to avoid duplication of information in case of two reports being generated CHO with candidate SCGs, any redundancy (e.g., measurements) are recorded in the reports for PCell (i.e., in SHR, SPR).

Hence the following Editor’s Note is captured in the running CR:

Editor’s Note: FFS whether it is needed to avoid duplication of information in case of two reports being generated CHO with candidate SCGs, any redundancy (e.g., measurements) are recorded in the reports for PCell (i.e., in SHR, SPR).

The scenario addressed in this FFS involves sub-optimal execution of both CHO and CPC procedures, where one or more SHR/SPR triggering conditions are met for each conditional cell change procedure, including PCell and PSCell. In such scenario according to the offline discussions in RAN2#129bis, the UE may have to log redundant measurements (e.g., neighbour cell measurements) in SHR and SPR. Such duplicated measurements may increase the UE reports overhead to the network, particularly if such scenarios addressed in this FFS happens frequently. However, how frequent such event (fulfilment of SHR and SPR triggering conditions in CHO with Candidate SCG) can happen in the network is a question we may need to answer before designing a solution for this procedure. Nevertheless, rapporteur believe avoiding duplication of the measurements need a correlation mechanism between reports so the network can extract the information from one report (e.g., SHR) for the other report (SPR).

Having, the above analysis, rapporteur would like to ask companies to provide their input on the following question on the necessity of correlation of SHR and SPR when both being triggered in CHO with Candidate SCG execution.

**Regarding Open issue RRC-1, companies are invited to provide comments on whether correlation of the SHR and SPR is needed in case of both reports being generated in a CHO with candidate SCG execution scenario.**

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| **Company** | **Yes/No** | **Comments** |
| Huawei, HiSilicon | Yes, but | We understand that possible redundant measurements are mainly about neighbour cell measurements, which may need to be optimized from UE point of view.  We also realize that there are pros/cons for this direction:  pros: reduce UE memory requirement  cons: specify more UE behaivours, e.g. UE needs to check the duplicated parts and then filter the measurements in reports. NW behaviours need to be enhanced as well  So we are open for now. |
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Given that we have not discussed the solutions for such problem, rapporteur would like to collect companies input on the potential solutions for the correlation of the SCG and SPR reports in case both being generated CHO with candidate SCG execution scenario.

**Regarding Open issue RRC-1 if companies agree to have a correlation mechanism what potential solutions for correlation of the SHR and SPR reports are suggested?**

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| **Company** | **Proposed solution** | **Comments** |
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And finally, if companies agree to correlate the SHR and SPR report, rapporteur would like to collect their input if companies are interested to avoid the duplication of the measurements in the SHR and SPR report. Therefore, the following question is asked.

**Regarding Open issue RRC-1, if companies agree to adopt a correlation solution between SHR and SPR, do you agree to avoid duplication of the measurements in such reports e.g., UE logs the duplicated measurements only in one report.**

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| **Company** | **Yes/No** | **Comments** |
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# Other identified open issues

Companies are invited to describe any other identified open issues not currently included within this document

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| **Company** | **Other identified open issues? (please describe)** |
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# Conclusions

*<To be filled after companies have provided feedback to the proposed resolutions for simple issues only. Please include the number of supporting companies (e.g., 18/20]) in brackets within the proposal>*

The following proposals have been provided based on feedback to the above document:

[Proposals for easy agreement]

*<List all proposals with consensus and/or may be easily agreed based on Rapporteur’s opinion>*

[Proposals for discussion]

*<List all proposals which will likely require further online/offline discussion to resolve>*

# References

1. XX

# Appendix (Optional)

*<Can include past meeting agreements etc.>*