3GPP TSG-RAN WG2 #112-e R2-201xxxx

Electronic meeting, 2nd November - 13th November 2020

Agenda Item: 8.13.2.3

Source: Ericsson

Title: [AT112-e][801] Other WID related SON features (Ericsson)

Document for: Discussion, Decision

# Introduction

This document is related to the following discussion.

 [AT112-e][801] Other WID related SON features (Ericsson)

Scope: Based on Summary of AI 8.13.2.3- Other WID related SON features (R2-2010996), to figure out all the additional SON features raised in the documents and collect companies’ interest on each feature. No need to do technical discussion through this email and just show your interest on the topics.

Intended outcome: Report in R2-2010892

Deadline: 00:01 am, Friday, 2020-11-06

Status: will start after the rapporteur is ready

Companies are requested to provide their preferred SON features amongst the listed featured to be standardized in Rel-17.

# Discussion

The following SON functions have been identified based on the contributions from companies to the agenda item 8.13.2.3.

1. RACH optimization enhancements other than 2-step RACH-specific enhancements
2. Successful handover report
3. Mobility history information enhancements
4. UL/DL coverage mismatch
5. SCG failure information enhancements
6. MCG failure information enhancements
7. NPN related enhancements
8. Mobility load balancing related enhancements
9. NR-U related SON report enhancements

Companies are requested to refer to R2-2010996 [1] for the detailed technical contents related to these features.

Companies are requested to provide their preferred SON features amongst this list to be standardized in Rel17 in the following table.

|  |  |  |
| --- | --- | --- |
| **Feature Name** | **Support to pursue this feature in RAN2**  **(please add your company name in the column if this is your company’s preference)** | **No interest to explore this feature in RAN2**  **(please add your company name in the column if this is your company’s preference)** |
| **RACH optimization enhancements other than 2-step RACH-specific enhancements** | vivo, Nokia, Huawei, HiSilicon, Ericsson, Sharp, ZTE (for failure Msg3 based on demand SI request) | Samsung, Qualcomm, Lenovo, OPPO |
| **Successful handover report** | Vivo, Nokia, Huawei, HiSilicon, Samsung, Ericsson, Qualcomm, ZTE(Prefer to focus on normal HO cases), Sharp, Lenovo, OPPO |  |
| **Mobility history information enhancements** | vivo, Huawei, HiSilicon, Samsung, Ericsson, Qualcomm,ZTE, Sharp, OPPO | Nokia (from RAN2 perspective), Lenovo |
| **UL/DL coverage mismatch** | Vivo, Nokia, Huawei, HiSilicon, Samsung, Ericsson, ZTE(We think it can be fixed with small enhancement on CEF report, e.g., allow inclusion of numOfCEF per cell, not just the latest failed one, no more enhancement is needed), Lenovo | Qualcomm (We believe the current CEF reporting should be enough to handle this. Furthermore, UE does not keep all the previous measurement observations in memory. Thus, it is hard to provide any additional information.) |
| **SCG failure information enhancements** | Samsung, Ericsson, Lenovo | Huawei, HiSilicon, Qualcomm, ZTE, OPPO |
| **MCG failure information enhancements** | Vivo, Samsung, ZTE (for location information), Sharp, Lenovo (enhancement for fast MCG link recovery) | Huawei, HiSilicon, Ericsson, Qualcomm (enhancements to MCG failure information may not be required but enhancements to RLF-report is required to capture fast MCG recovery failures.) ,OPPO |
| **NPN related enhancements** | Nokia (PLMN check and cell Id), ZTE | vivo, Huawei, HiSilicon, Samsung, Ericsson, Qualcomm, Sharp, Lenovo, OPPO |
| **Mobility load balancing related enhancements** | Huawei, HiSilicon | Nokia (from RAN2 perspective), Samsung, Ericsson, Qualcomm, ZTE, Sharp, Lenovo, OPPO |
| **NR-U related SON report enhancements** | Vivo, Nokia, Ericsson,  Qualcomm (The topic is deprioritized and thus we can postpone this discussion to later rel-17 meetings.) | Huawei, HiSilicon, Samsung, ZTE, Sharp, Lenovo, OPPO |

**Summary:**

To be added later

# Conclusion

To be added later

# References

1. R2-2010996, Summary of AI 8.13.2.3 - Other WID related SON features, Ericsson, RAN2#112-e meeting, November, 2020.
2. [R2-2008918](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_112-e/Docs/R2-2008918.zip), [UE RACH Report for SN](https://ericsson.sharepoint.com/R2-2008918.zip), CATT, RAN2#112-e meeting, November 2020.

1. [R2-2009018](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_112-e/Docs/R2-2009018.zip), [Consideration on successful handover report and UE history information in EN-DC](https://ericsson.sharepoint.com/R2-2009018.zip), OPPO, RAN2#112-e meeting, November 2020.

1. [R2-2009397](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_112-e/Docs/R2-2009397.zip), [Successful Handover Report](https://ericsson.sharepoint.com/R2-2009397.zip), QUALCOMM Incorporated, OPPO, RAN2#112-e meeting, November 2020

1. [R2-2009400](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_112-e/Docs/R2-2009400.zip), [Enhancements to Mobility History Information](https://ericsson.sharepoint.com/R2-2009400.zip), QUALCOMM Incorporated, RAN2#112-e meeting, November 2020

1. [R2-2009426](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_112-e/Docs/R2-2009426.zip), [Refined UL Coverage Outage Detection](https://ericsson.sharepoint.com/R2-2009426.zip), Nokia, Nokia Shanghai Bell, RAN2#112-e meeting, November 2020

1. [R2-2009685](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_112-e/Docs/R2-2009685.zip), [Discussion on RACH report for SgNB](https://ericsson.sharepoint.com/R2-2009685.zip), Vivo, RAN2#112-e meeting, November 2020

1. [R2-2009850](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_112-e/Docs/R2-2009850.zip), [MRO Enhancement for fast MCG link recovery](https://ericsson.sharepoint.com/R2-2009850.zip), Lenovo, Motorola Mobility, RAN2#112-e meeting, November 2020

1. [R2-2010148](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_112-e/Docs/R2-2010148.zip), [Other WID related SON features](https://ericsson.sharepoint.com/R2-2010148.zip), Ericsson, RAN2#112-e meeting, November 2020

1. [R2-2010176](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_112-e/Docs/R2-2010176.zip), [Discussion on other SON aspects](https://ericsson.sharepoint.com/R2-2010176.zip), Huawei, HiSilicon, RAN2#112-e meeting, November 2020

1. [R2-2010323](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_112-e/Docs/R2-2010323.zip), [Considerations on RAN3 concerned issues](https://ericsson.sharepoint.com/R2-2010323.zip), ZTE Corporation, Sanechips, RAN2#112-e meeting, November 2020

1. [R2-2010400](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_112-e/Docs/R2-2010400.zip), [Enhancements related to successful HO report & MCGFailureInformation](https://ericsson.sharepoint.com/R2-2010400.zip) Samsung, RAN2#112-e meeting, November 2020

1. [R2-2010459](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_112-e/Docs/R2-2010459.zip), [Discussion on successful handover report](https://ericsson.sharepoint.com/R2-2010459.zip), NTT DOCOMO, INC., RAN2#112-e meeting, November 2020

1. [R2-2010508](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_112-e/Docs/R2-2010508.zip), [Discussion on collection of UE history information in EN-DC](https://ericsson.sharepoint.com/R2-2010508.zip), NTT DOCOMO, INC., RAN2#112-e meeting, November 2020

1. [R2-2010526](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_112-e/Docs/R2-2010526.zip), [Discussion on conditional PSCell addition/change failure report](https://ericsson.sharepoint.com/R2-2010526.zip), NTT DOCOMO, INC., RAN2#112-e meeting, November 2020

1. [R2-2010608](https://www.3gpp.org/ftp/tsg_ran/WG2_RL2/TSGR2_112-e/Docs/R2-2010608.zip), [Discussion on rel-17 Radio Link Failure Report for CG failure aspects](https://ericsson.sharepoint.com/R2-2010608.zip), NTT DOCOMO INC., RAN2#112-e meeting, November 2020