3GPP TSG-RAN WG2 #115-e R2-210xxxx

Electronic meeting, Aug 16th – 27th 2021

Agenda Item: 8.13.2.3

Source: CATT

Title: Report of  [AT115e][871][SON/MDT] Modeling aspects related to information required by SN/SCG (CATT)

Document for: Discussion

# 1 Introduction

This document is for report of the discussions as planned in the following as per session chair’s guidence

 [AT115e][871][SON/MDT] **Modeling aspects related to information required by SN/SCG (CATT)**

 Scope: Focus on the set of proposals for RAN2 agreements in R2-2107825

      **Intended outcome**: Report with Agreements

      **Deadline**: 11:00 UTC, Wednesday August 25th

This document is organized as the following. The discussions are in section 2, and the summary and proposals are in section 3.

# 2 Discussions

Please the participating delegates provide their contact information in this table.

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| --- | --- |
| Company | Contact Name / Email address |
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## 2.1 RA Report to the SN

For easlier tracking, the same proposal numberings are reused from [1] in the reminder of this document.

The following proposals are provided in [1], and great majority’s support is observed.

**Proposal 1 UE reports the SN RACH report to the MN, and then MN sends the SN RACH report to the SN.**

**Proposal 2 RAN2 to discuss and reply to LS R2-2008723.**

There were concern that regarding whether current UE variable could include both MN and SN RACH information, and that the MN might not be aware of the existence of SN RA report. Rapporteur understands that the role of MN or SN of specific UE should not have impact on the NW node RACH optimization, so the current UE variable can be directly used, and it is not necessary for SN and MN to request RACH information seperately.

For the sake of progress, companies are invited to answer the following question.

**[Q1] Are Proposal 1 and 2 agreeable to you?**

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| **Company**  | **Yes or No** | **Comments if any proposal(s) not agreeable** |
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**Rapporteur summary and suggested WF**

TBD

## 2.2 SN Related MHI Information

The following are provided in [1], and majority’s support is observed.

**Proposal 3 RAN2 to confirm that the PSCell transition is part of MHI.**

**Proposal 5 PSCell MHI is reported only to PCell.**

**Proposal 6 UEInformationResponse message is used to convey the PSCell MHI to the MN.**

For the sake of progress, companies are invited to answer the following question.

**[Q2] Are Proposal 3, 5, and 6 agreeable to you?**

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| **Company**  | **Yes or No** | **Comments if any proposal(s) not agreeable** |
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However, the structure of PSCell MHI report (i.e., proposal 4 in [1]) seems to require more discussions. It would be meaningful if progress is made also on this important aspect. The proposal is copied below from [1].

**Proposal 4 RAN2 to discuss on Option 1 (PSCell MHI nested within the PCell MHI) and potential simplification, taking into the following aspects**

* **the UE memory for PSCell MHI issue and whether/how to reduce it;**
* **Whether the network can know the association between the PScell and PCell based on the report without updating RAN3 specification;**
* **Whether there is need for the SN to know the MHI for MN.**

During the discussions, Option 1 ‎(PSCell MHI nested within the PCell MHI) ‎is supported by majority (7 out of 11 companies), but some concerns exist, which have been reflected as the three sub-bullets in Propsoal 4. These potential concerns haven‘t been discussed much after being raised in the pre-meeting email discussion. Therefore Rapporteur understands it is useful to further collect companies‘ views.

For the sake of progress, companies are invited to answer the following question.

**[Q3] What’s your views regarding the potnetial concerns on Option 1 listed in Proposal 4 (i.e., the sub-bullets), and is it acceptable to take Option 1 as a baseline for further discussions?**

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| --- | --- | --- |
| **Company**  | **Any views / comments regarding the potentail concerns as listed in sub-bullets of P4, or any other comments if any?** | **Is it acceptable to take Option 1 as basedline?** |
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There are some other proposals from [1], i.e.,

**Proposal 7 If PSCell MHI is reported to the SN, DL/ULInformationTransferMRDC message can be used.**

**Proposal 8 RAN2 to discuss and decide whether ‘the time without PSCell in the PSCell MHI report’ is reported.**

However, if Proposal 5 is agreed, it seems we do not need to further discuss Proposal 7. And, Proposal 8 may be discussed in a later stage. Therefore no questions are raised on these proposals.

**Rapporteur summary and suggested WF**

TBD

## 2.3 Report and Content of SCG Failure Information

In [1], companies’ views have been collected regarding whether all the contents listed by the RAN3 LS R3-211332 are considered necessary by RAN2, and which **fields** in the current specification could be directly reused for these required information (i.e., not which existing IE structure could be used). The following were provided in [1] based on the discussions.

**Proposal 9 RAN2 confirms that the 5 information requested by RAN3 LS ‎ R3-211332 ‎ are needed, and how to report them to the network could be further discussed.**

**Proposal 10 Reuse existing SCG failure messages to transfer the SCG failure information for PSCell ‎failure analysis requested by RAN3.‎**

**Proposal 11 If reuse existing SCG failure messages, add new fields for the first 3 information (i.e., ‎CGI of the Source PSCell, CGI of the Failed PSCell, and timeSCGFailure) requested in RAN3 LS R3-211332.**

**Proposal 12 If reuse existing SCG failure messages, reuse existing field of failureType for the 4th information (i.e., ‎connectionFailureType‎) requested in RAN3 LS R3-211332 ‎.**

**Proposal 14 If a separate message other than existing SCG failure messages is used, new fields are needed for all the 5 information suggested by RAN3 LS R3-211332‎.**

**Proposal 15 Check with RAN3 first about whether EN-DC and NG-EN-DC scenarios are in the consideration of RAN3 LS R3-211332 for the SCG failure recording for the purpose of PSCell failure analysis.**

According to [1], the above proposals are supported by majority. For the sake of progress, companies are invited to answer the following question.

**[Q4] Are proposal 9, 10, 11, 12, 14, and 15 agreeable to you?**

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| **Company**  | **Yes or No** | **Comments if any proposal(s) not agreeable** |
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Besides, there are also another proposal on this topic [1]:

**Proposal 13 If reuse existing SCG failure messages, RAN2 to discuss whether to introduce a new field for the 5th information (i.e., random-access related information set by the PSCell) requested in RAN3 LS R3-211332. It is noted that this may depend on whether SgNB RACH report could include SCG failure scenario, i.e., if the information is included in SgNB RACH report then it is not needed in SCG failure messages.**

For this proposal, it seems more discussions are needed perhaps in a later stage. So no question is raised regarding this proposal.

**Rapporteur summary and suggested WF**

TBD

# 3 Conclusion

This document collects companies’ views regarding the suggested proposals from [1]. Based on the views and some further discussions, the following proposals are made.

TBD

# 4 References

1. R2-2107825 Report of [Post114-e][852][SON\_MDT] Modeling aspects related to information required by SN/SCG CATT