3GPP TSG-RAN WG2 #116-e Tdoc DocNumber

Electronic meeting, 1th – 12th November 2021

Agenda Item: 8.13

Source: Ericsson

Title: [AT115e][832][SONMDT] Reply LS on Beam measurement reports (Ericsson)

Document for: Discussion, Decision

# 1 Introduction

This paper addresses the following email discussion:

* [AT115e][832][SONMDT] Reply LS on Beam measurement reports (Ericsson)

**Scope:** Based on R2-2109352 to figure out feasibility of the proposals mentioned in LS **Intended outcome**: Approved LS

 **Deadline**: 11:00 UTC, Friday November 5th

As part of the LS, RAN3 asked the following question to RAN2 and SA5.

**ACTION:** RAN3 kindly asks RAN2 and SA5 to indicate whether the proposals above, namely to include in the M1 Configuration signalled over the RAN interfaces (e.g. NG, Xn, F1) information describing whether and how beam measurements should be configured at the UE for M1 measurements, is feasible.

This offline discussion will be run in two phases.

**Phase-1:**

Input from companies on the related proposals brought up by companies.

Companies are invited to provide their comments by the deadline, i.e. **11:00 UTC, Thursday November 4th**

**Phase-2:**

Input from companies on the draft LS response to RAN3 (24 hours ).

Companies are invited to provide their comments by the deadline, i.e. **11:00 UTC, Friday November 5th**

To aid better communication between the respective delegates handling this topic from different companies, it is requested to fill-in the contact information.

**Contact Information**

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# 2 Discussion

According to the received LS [1] there is no information in the M1 configuration regarding whether beam level measurements should be reported by the UE. In contrast, RAN3 noted that TS32.422 mentions that the M1 measurements can be reported on a per cell and/or beam level. In addition, according to RAN TS 38.331 and as part of *ReportConfigNR* it is seemed possible for the RAN node to configure M1 measurements with or without beam measurements by configuring “*includeBeamMeasurements*” IE.

In RAN2 some companies addressed this issue [2][3] with the following proposals.

* *RAN2 to reply the RAN3 LS that an indicator needs to be added in the M1 Configuration signalled over the RAN interfaces (e.g. NG, Xn, F1) information describing whether beam measurements should be enabled at the UE for M1 measurements [2].*
* *RAN2 confirms that the field includeBeamMeasurements is mandatory to be configured in the reporting configurations[3].*
* *It is RAN2’s understanding that the* *OAM should be able to control the beam level measurement inclusion in the measurement reports associated to the M1 measurement[3].*

Based on the above proposal from [2] and [3] we invite companies to explain the view on the following questions.

1. **Do companies agree that *includeBeamMeasurements* should be mandatorily configured as part of *ReportConfigNR*?**

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| **Company** | **Agree/Disagree** | **Comments** |
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**Rapporteur Summary:**

To be added later

Further [3] mentions that by including the *includeBeamMeasurements* related configuration in the M1 configuration, OAM would be able to control the beam level measurements’ inclusion in the immediate MDT report, thus enabling the OAM to have the control to build up coverage map at beam level.

1. **Do companies agree that OAM should be able to control the beam level measurement inclusion (*includeBeamMeasurements*) in the measurement reports associated to the M1 measurement so that the beam level coverage map can be generated by the OAM?**

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| **Company** | **Agree/Disagree** | **Comments** |
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**Rapporteur Summary:**

To be added later

If you agree with question-2, then rapporteur believes that the RAN interfaces that carry the immediate MDT configuration also needs to be enhanced to include *includeBeamMeasurements* as part of the M1 configuration.

1. **Do companies agree that an indicator (*includeBeamMeasurements*) needs to be added in the M1 Configuration signalled over the RAN interfaces (e.g., NG, Xn, F1) to enable whether the beam measurements should be included by the UE for M1 measurements?**

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| **Company** | **Agree/Disagree** | **Comments** |
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**Rapporteur Summary:**

To be added later

# 3 Conclusion

**To be added later.**

# References

1. R2-2109352 (R3-214519), LS on the Beam measurement reports for the MDT measurements, 3GPP TSG RAN WG2#116-e, e-Meeting, 1st - 12th November, 2021.
2. R2-2109564, Discussions on RAN3 LS on immediate MDT, VIVO, 3GPP TSG-RAN WG2#116-e, e-meeting, 1st– 12th November 2021.
3. R2-2110846, On beam information in immediate MDT measurement reports (reply LS R3-214519), Ericsson, 3GPP TSG-RAN WG2#116-e, e-meeting, 1st– 12th November 2021.