3GPP TSG-RAN WG3 #116-e R3-223720

10 - 19 May 2022

Online

**Agenda Item: 9.3.9**

**Source: ZTE - Moderator**

**Title:** **Summary of Offline Discussion on CB: # 8\_MDTReportAmount**

**Document for: Approval**

# **Introduction**

**CB: # 8\_MDTReportAmount**

**- Whether the report amount of M4, M5 and M7 should be extended**

**- Whether there is a need to introduce the report amount for E-UTRAN**

**- Capture agreements and provide the CRs if agreeable**

(ZTE - moderator)

Summary of offline disc [R3-223720](https://ericsson-my.sharepoint.com/personal/angelo_centonza_ericsson_com/Documents/Local%20Documents/3GPP_ETSI/RAN3/RAN3-116e/EmailDiscussions/CB%20%23%208_MDTReportAmount/Inbox/R3-223720.zip)

Please Note:

There would be two rounds of email discussion.

The 1st round is to be ended by Thursday of first week (23:59 UTC, 2022-5-12).

The 2nd round is to be ended 3 hours before the email deadline at second week (9:00 UTC, 2022-5-17).

# **2 For the Chairman’s Notes**

Propose to capture the following:

# **3 Discussion (1st round)**

At RAN3#114-e , the issue about Report Amount for M4, M5, M6, M7 was discussed and the following notes were captured:

**The introduction of the Report Amount for MDT Measurements in the NG-RAN starting from Rel17**

**It is proposed to maintain the “infinity” value in the value range of the Report Amount IE**

**Criticality 'ignore' is used for the added Report Amount IEs**

**WA: the value range used for the newly added Report Amount IE is the same as for the M1 measurement.**

**It is FFS whether Report Amount IE value ranges different from the M1 Report Amount should be supported**

**It is FFS whether the introduction of the Report Amount is beneficial also for E-UTRAN**

This CB further discusses the left issues listed above.

3.1 Value Range

In [1], there is some discussion on the report amount for M4/M5/M6/M7.

For M6, it is collected over RRC and the reporting amount should better align with the report amount of M1, which is reasonable enough.

For M4/M5/M7, which are not related to RRM, the report amount are not necessarily to be the same as M1, the report amount of which is considered based on UE but not for Network entity. It is not necessary to align the report amount between NG-RAN node and UE. For example, M4 is data volume measurement and only enough measurement report quantity is of statistical significance.In addition, as we know, M4/M5/M7 are enforced in the network and NG-RAN node does not need to worry about power saving. Larger report amount is feasible and beneficial for analysis.

There are two proposals in [1]:

**Proposal 1: The value range of M6 can be kept as it is in the current specification.**

**Proposal 2: The value range of M4, M5 and M7 should be extended to ENUMERATED (1, 2, 4, 8, 16, 32, 64, 128, 256, 512, 1024, 2048, infinity, ...).**

**Q1: Do you agree with proposal 1, i.e., the value range of M6 should be the same as M1?**

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| --- | --- | --- |
| Company | Yes/No | Comments |
| Ericsson | Yes |  |
| Huawei | yes | OK to proposal 1. |
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**Q2: Do you agree that the value range of M4, M5 and M7 should be extended? If yes, do you think the recommended value range in proposal 2 can be accepted?**

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| --- | --- | --- |
| Company | Yes/No | Comments |
| Ericsson | No | We do not see the need to extend the report amount for M4, M5 and M7. We see it as an advantage to have the same report amount values for all measurements, which ensures consistency of the number of measurements to be reported. For larger report amounts there is the value “infinity”. |
| Huawei | No | For other measurements, they will be linked with M1 in OAM in the end. So its better to align the report amount with M1 as well.It does not introduce too much benefits but only implementation complex in OAM if we extend the report amount for m4, 5, and 7. |
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3.2 E-UTRAN

Regarding whether report amount should be introduced for E-UTRAN, [1] states that there is no such a need. [2] proposes that report amount should be introduced for E-UTRAN in Rel-17, which is beneficial.

In the previous LS from SA5 in [3], it stated the benefits to introduce the report amount:

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| --- |
| *SA5 confirms that reportAmount is beneficial to configure for MDT measurements M4, M5, M6 and M7.**In the OAM there is the possibility to delete an existing Trace Job (traceJob) in order to stop the measurement reporting. However, this will stop all measurements configured in this Trace Job (e.g. not only M4, but also M2, M3, M6, M7 as well as trace). Additionally, initializing the deletion of a Trace Job means additional effort and signalling. These issues can be avoided by configuring a number of measurement reports aka reportAmount per MDT measurement.* *When the RAN chooses any allowed value for the reportAmount for MDT measurements M4, M5, M6 and M7, the OAM does not know how many reports to expect.* |

[2] hold the view that the above mentioned benefits are applicable for both NG-RAN and E-UTRAN. Therefore, it is proposed:

**Proposal 3: To introduce the Report Amount for M4, M5, M6, M7 measurements for E-UTRAN as a LTE correction in Rel-17.**

**Q3: Whether the introduction of the Report Amount is beneficial also for E-UTRAN?**

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| --- | --- | --- |
| Company | Yes/No | Comments |
| Ericsson | Yes | As confirmed by SA5 and as agreed in RAN3 (for NG-RAN), it is beneficial to introduce the report amount in MDT measurements. It is obvious to us that such benefit extends to LTE as well. |
| Huawei | Yes | Same comments as Ericsson |
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**Q4: Do you agree with proposal 3 listed above, which says the report amount for M4, M5, M6, M7 measurements for E-UTRAN should be introduced in Rel-17?**

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| Company | Yes/No | Comments |
| Ericsson | Yes |  |
| Huawei | yes |  |
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**Pls note:**

**All the submitted CRs would be handled in the 2nd round, if we can achieve some agreements in the 1st round.**

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| [R3-223657](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_116-e%5CDocs%5CR3-223657.zip) | CR for 38.413 on MDT report amount (ZTE, China Telecom, Samsung, CATT) | CR0847r, TS 38.413 v17.0.0, Rel-17, Cat. F |
| [R3-223658](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_116-e%5CDocs%5CR3-223658.zip) | CR for 38.423 on MDT report amount (ZTE, China Telecom, Samsung, CATT) | CR0843r, TS 38.423 v17.0.0, Rel-17, Cat. F |
| [R3-223659](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_116-e%5CDocs%5CR3-223659.zip) | CR for 38.473 on MDT report amount (ZTE, China Telecom, Samsung, CATT) | CR0959r, TS 38.473 v17.0.0, Rel-17, Cat. F |
| [R3-223660](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_116-e%5CDocs%5CR3-223660.zip) | CR for 37.483 on MDT report amount (ZTE, China Telecom, Samsung, CATT) | CR0021r, TS 37.483 v17.0.0, Rel-17, Cat. F |
| [R3-223197](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_116-e%5CDocs%5CR3-223197.zip) | Introducing Report Amount for M4, M5, M6, M7 measurements for E-UTRAN (Huawei, Deutsche Telekom, Orange) | CR1876r, TS 36.413 v17.0.0, Rel-17, Cat. FMove to 9.3.9 |
| [R3-223198](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_116-e%5CDocs%5CR3-223198.zip) | Introducing Report Amount for M4, M5, M6, M7 measurements for E-UTRAN (Huawei, Deutsche Telekom, Orange) | CR1688r, TS 36.423 v17.0.0, Rel-17, Cat. FMove to 9.3.9 |

**If you have any other questions or concern, please list in the table below. Of course you can also let us know via email reflector.**

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| Company | Concern |
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# **4 Conclusion, Recommendations**

See section 2.

# **5 References**

1. R3-223656 Discussion on Report Amount for MDT M4, M5, M6, M7 measurements (ZTE, China Telecom, Samsung, CATT)
2. R3-223196 Introducing Report Amount for M4, M5, M6, M7 measurements for E-UTRAN (Huawei, Deutsche Telekom, Orange)
3. S5-214523, Reply LS on Report Amount for M4, M5, M6, M7 measurements.