3GPP TSG-RAN WG3 #114-e R3-215830

1 - 11 Nov 2021

Online

**Agenda Item: 9.3.6.1**

**Source: ZTE - Moderator**

**Title:** **Summary of Offline Discussion on CB: # 27\_ReportIntervalMDT**

**Document for: Approval**

# **Introduction**

**CB: # 27\_ReportIntervalMDT**

**- Correct on the stage 3 specifications (Report Interval IE of M1 configuration) in RAN3 to align with RAN2?**

**- Provide CRs if agreeable**

(ZTE - moderator)

Summary of offline disc [R3-215830](file:///C:\Users\cmcc\Desktop\Inbox\R3-215830.zip)

Please Note:

Two rounds of discussion.

The first round email discussion is to be ended by Friday (24:00 UTC, 2021-11-05).

The second round email discussion is to be ended before the email deadline at second week (12:00 UTC, 2021-11-09).

# **2 For the Chairman’s Notes**

Propose to capture the following:

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

In R3-214982, a misalignment issue between RAN3 (38.413/38.423) and RAN2(38.331) satge3 specifications is further discussed, with more considerations on the alignment throughout specifications and the necessity for backward compatibility. The proposed CRs for 38.413 and 38.423 are provided in [1] and [2].

the misalignment issue:

In RAN3 stage3 specifications (38.413/38.423), the value range of the Report Interval IE of M1 configuration is as below:

(ms120, ms240, ms480, ms640, ms1024, ms2048, ms5120, ms10240, min1, min6, min12, min30, min60)

However, as in the ASN.1 in 38.331, which is marked as the reference for report interval IE in 38.413/38.423, the value range of report interval is not aligned with that in RAN3 specifications.

ENUMERATED {ms120, ms240, ms480, ms640, ms1024, ms2048, ms5120, ms10240, ms20480, ms40960,

min1,min6, min12, min30 }

During last meeting, an old discussion about the stage2 and stage 3 misalignment on M4/M5 was mentioned. Regarding to that issue, an LS[3] has been sent to SA5 to ask about their opinion on the stage2 and stage3 misalignment issue, and we got the reply[4] from SA5 which said that stage3 specifications should be updated to match stage2 specification. After that a further reply[5] was sent to RAN2 to ask RAN2 about the feasibility about the feasibility of stage2 and stage 3 alignment. According to the history of the discussion on stage 2 and stage 3 misalignment issue, Moderator has noticed that there indeed exist misalignment issue throughout specifications. And it would be better that after we get the reply from RAN2, we fix the misalignment issue cross specifications completely.

Now come back to the misalignment issue in this CB, considering the reply from SA5, if the stage 3 specification of RAN2 is to be modified to match SA5, it means the ASN.1 in 38.331 has to be changed. This is not preferred at current time in standardization work.

To prevent the inconvenience of modifying the ASN.1 in RAN2, it is proposed that RAN3 stage 3 specifications should be corrected to align with RAN2, so that the ASN.1 in 38.331 would not be affected. For the potential stage 2 and stage 3 misalignment issue that might be raised because of this correction, SA5 can be notified to change the value range to align with RAN2 and RAN3, so that the misalignment issue for M1 report interval throughout specifications can be solved completely.

**Q1: Do you agree that RAN3 should correct the value range of report interval IE in M1 configuration IE in 38.413 and 38.413, to align with RAN2?**

|  |  |  |
| --- | --- | --- |
| Company | Yes/No | Comments |
| Ericsson |  | As mentioned before, this discussion should be taken together with the discussion on alignment of Report Interval for MDT measurement across stage 2 and stage 3. The reason is that an MDT configuration is always generated by the OAM. OAM provides the configuration, with a specific measurement interval for each measurement, either to the AMF or to the RAN. If there is a discrepancy between the values the OAM can provide and those the RAN can implement, this has to be resolved by implementation. For example, if OAM signals a value for the report amount that the RAN does not support, the RAN will have to decide by itself about a value to signal to the UE. Likewise, if the Report Amount value is not signalled by the OAM, then RAN should not use it.  Looking at TS32.422, the Report Interval values ms20480 and ms40960 are not specified for NR. Hence the OAM will never signal these values. Unless Stage 3 and Stage 2 are aligned, there seem to be no reason to add these values in the NGAP.  Therefore we suggest to take this discussion together with the Stage 2 and Stage 3 alignment. |
| CMCC | Yes | We have received request from our network operation department to align the stage 2 and stage 3 for M1, i.e., 38.331/38.413/32.422. If not aligned, some issues may happen. For example, if OAM signals a value for the report interval that the RAN does not support, e.g., 60min, the RAN behavior is fully left to implementation which is not a good way.  It makes sense not to touch 38.331 at this stage, so we also propose to align Uu and NG and ask SA5 to update the stage 2 spec, if needed. |
| Nokia | Yes | OK with the way forward proposed by CMCC (align NGAP on Uu, and then request SA5 to update stage 2). This follows the principle that stage 2 aligns on stage 3. |
| Huawei | Yes | We are fine. |
| CATT | Yes | The change is fine for us. |
| Samsung | Yes | This situation is different from the other stage2-stage 3 mis-alignment cases. It is stage 3 mis-alignment between NGAP and RRC. We think this situation is more serious and correction to stage 3 mis-alignment is needed. |

In the proposed CRs[1][2], the corrections are a bit different with the original versions submitted at last meeting. To be specific, the correction in the old CRs[6][7] are NBC, while in [1][2], a new IE named Extended Report Interval IE is introduced, as the extension of the Report Interval IE, for the 2 values that need to be added (ms20480, ms40960, ...).

**Q2: Do you think the corrections in the proposed CRs are acceptable and can be agreed?**

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| --- | --- | --- |
| Company | Yes/No | Comments |
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# **4 Conclusion, Recommendations**

See section 2.

# **5 References**

[1] R3-214983 Value range misalignment for Report Interval IE of MDT M1 configuration (NGAP)

[2] R3-214984 Value range misalignment for Report Interval IE of MDT M1 configruation (XnAP)

[3] R3-207222 LS to SA5 on MDT Stage 2 and Stage 3 alignment

[4] S5-206297 Reply LS on MDT Stage 2 and Stage 3 alignment

[5] R3-211140 Reply LS on MDT Stage 2 and Stage 3 alignment To SA5, RAN2

[6] R3-213802 Misalignment value range for reportInterval IE of MDT(NGAP)

[7] R3-213803 Misalignment value range for reportInterval IE of MDT(XnAP)