3GPP TSG-RAN WG2 #121bis-e R2-230xxxx

Electronic meeting, 17th – 26th April 2023

Agenda Item: 7.4.2

Source: Ericsson

Title: Summary of [AT121bis-e][017][eMob] RRC

Document for: Discussion, Decision

# 1 Introduction

This contribution is to address the following email discussion:

* [AT121bis-e][017][eMob] RRC (Ericsson)

Scope: Review of RRC CR in R2-2304101, which doesn’t include this meetings agreements. Identify things that should be corrected and missing things.

Intended outcome: Improved baseline RRC CR (no attempt to formally endorse), including editors Notes indicating Open Issues that should be addressed in the upcoming meetings.

Deadline: EOM (offline only, can is needed extend to W2 Friday).

# 2 Contact details

Companies are encouraged to fill in the contact details in this table.

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| Company | Name | Email |
| Xiaomi | Yumin Wu | wuyumin@xiaomi.com |
| MediaTek | Li-Chuan Tseng | li-chuan.tseng@mediatek.com |
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# 3 Comments on RRC running CR in [R2-2304101](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_121bis-e/Docs/%0dR2-2304101.zip)

Companies are encouraged to review the RRC running CR for LTM in [R2-2304101](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_121bis-e/Docs/%0dR2-2304101.zip) and provide comments in the following table.

**Q1. Please state your comments about the provided RRC running CR for LTM in** [**R2-2304101**](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_121bis-e/Docs/%0dR2-2304101.zip)**.**

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| Company | Comment  (Please specify for which section of the spec the comment is) |
| MediaTek | Sec. 6.3.2   * We believe that *ltm-CellSwitchInfo* for LTM serves a similar purpose as *reconfigurationWithSync* for RRC-based handover. However, this IE is not mentioned in the procedural text in Sec. 5. * The name of new IE *LTM-CandiadteConfig* may be confusing in that it contains *lt~~e~~m-ReferenceConfiguration* and *ltm-CandidateToAddModList*. We suggest renaming the IE as *LTM-Config*. * RAN2 just agreed that “RRC RACH configuration for early TA acquisition (e.g., including whether RAR needs to be received) is specific per target cell and is signalled separately (separate IEs) from the candidate cell configuration.” Therefore, such early RACH configurations should also be included in LTM-Config. For example,   LTM-Config-r18 ::= SEQUENCE {  ltm-ReferenceConfiguration-r18 OCTET STRING (CONTAINING RRCReconfiguration), OPTIONAL, -- Cond FirstLTM-Candidate  ltm-CandidateToReleaseList-r18 LTM-CandidateToReleaseList-r18 OPTIONAL, -- Need N  ltm-CandidateToAddModList-r18 LTM-CandidateToAddModList-r18 OPTIONAL, -- Need N  ltm-CandidateResetL2-List-r18 SetupRelease { LTM-CandidateResetL2-List-r18 } OPTIONAL -- Need M  ltm-EarlyRACH-ConfigToReleaseList LTM-EarlyRACH-ConfigToReleaseList OPTIONAL, -- Need N  ltm-EarlyRACH-ConfigToAddModList LTM-EarlyRACH-ConfigToAddModList OPTIONAL, -- Need N    ...  }  LTM-CandidateToReleaseList-r18 ::= SEQUENCE (SIZE (1..maxNrofCellsLTM-r18)) OF LTM-CandidateId-r18 OPTIONAL -- Need N  LTM-CandidateToAddModList-r18 ::= SEQUENCE (SIZE (1..maxNrofCellsLTM-r18)) OF LTM-Candidate-r18  LTM-Candidate-r18 ::= SEQUENCE {  ltm-CandidateId-r18 LTM-CandidateId-r18,  ltm-Config-r18 OCTET STRING (CONTAINING RRCReconfiguration),  ltm-ConfigComplete-r18 ENUMERATED {true} OPTIONAL -- Need R  ...  }  LTM-CandidateResetL2-List-r18 ::= SEQUENCE (SIZE (1..maxNrofCellsLTM-r18)) OF LTM-CandidateId-r18  LTM-EarlyRACH-ConfigToReleaseList SEQUENCE (SIZE (1..maxNrofCellsLTM)) OF LTM-CandidateId OPTIONAL, -- Need N  LTM-EarlyRACH-ConfigToAddModList SEQUENCE (SIZE (1..maxNrof maxNrofCellsLTM)) OF LTM-EarlyRACH-Config OPTIONAL, -- Need N  LTM-EarlyRACH-Config-r18 ::= SEQUENCE {  ltm-CandidateId-r18 LTM-CandidateId-r18,  ltm-EarlyRACH-Config-r18 RACH-ConfigDedicated  ...  } |
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# 4 Other open issue that need to be addressed in the RRC running CR

In the RRC running CR for LTM in [R2-2304101](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_121bis-e/Docs/%0dR2-2304101.zip) a series of open issues are captured in order to highlight what aspects are not captured yet and that need to be addressed before to provide a possible implementation. Companies are encouraged to highlighted in the following table any other open issue that deserve to be discussed or captured for the RRC running CR.

**Q1. Is there any other open issue that need to be addressed in the RRC running CR for LTM in** [**R2-2304101**](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_121bis-e/Docs/%0dR2-2304101.zip)**?**

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| Company | Comment  (Please specify for which section of the spec the comment is) |
| Xiaomi | Issue 1: FFS whether we need two separate “ltm-CandidateConfig”, one “ltm-MCGCandidateConfig” for MCG and one “ltm-SCGCandidateConfig” for SCG, so that the UE can know whether the configuration is for MCG or SCG when the MN is able to provide both MCG candidate configuration and SCG candidate configuration.  Issue 2: FFS how to handle the L3 RRM measurement configuration after cell switching. |
| MediaTek | For LTM operation, UE needs some information about candidate cells before cell switch. In addition to RACH configurations for early TA acquisition, such information also includes L1 measurement RS configuration, TCI states, etc. The related configurations should be considered as open issues if we cannot conclude in this meeting. |
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# 5 Conclusion

Based on the discussion in the previous sections the following is proposed:

# 6 References

1. [R2-2304101](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_121bis-e/Docs/R2-2304101.zip), RRC running CR for LTM, Ericsson, RAN2#121bis-e, Online, 17th - 26th April, 2023