3GPP TSG-RAN WG2 Meeting #131bis R2-250xxxx
Prague, Czech Republic, October 13th – 17th, 2025

Agenda Item: 11.1

Source: Session Chair (Ericsson)

Title: Report from session on R18 and R19 Mobility

Document for: Approval

Time Schedule
Please refer to the latest schedule in the RAN2 inbox on the public 3GPP servers.

## NBC Changes for Rel-18 corrections

## List and Status of Offline/Email Discussions

**POST Email discussion:**

**AT Email discussion:**

## Approved outgoing LSs

# 7 NR Rel-18

#### 7.0.2.22 Further NR mobility enhancements

(NR\_Mob\_enh2-Core; leading WG: RAN2; REL-18; WID:RP-233970)

[R2-2506726](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2506726.zip) LS on the handling of inter-DU L2 reset for LTM (R3-255907; contact: Ericsson) RAN3 LS in Rel-18 NR\_Mob\_enh2-Core To:RAN2

[R2-2507400](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507400.zip) Handling of inter-DU L2 reset for LTM Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2507386](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507386.zip) On inter-DU Layer 2 Reset in LTM Nokia discussion Rel-18 NR\_Mob\_enh2-Core

Discussion

- ZTE share same view with Nokia that L2 reset is always done for inter-DU

- Ericsson think that network control this and if there are network implementations which can support this we should not restrict it.

- Xiaomi thinks that RAN3 should decide it

- Huawei think we do not need to prevent network implementation, but we are not asking RAN3 to do any new signalling

- Nokia still think some work needs to be done in RAN3

- CATT think network implementation can do this but without any RAN3 impact.

- Samsung shares Nokia’s view

* RAN2 understanding is that in case of inter-DU L2 reset is always done
* [AT131bis][101][MOB] LS to RAN3 of L2 reset (Ericsson)

 **Scope:** Discuss working of the reply LS to send to RAN3 about L2 reset.

 **Intended outcome:** Agreeable LS in R2-2507711.

 **Deadline:** CB on Wednesday.

[R2-2507616](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507616.zip) Correction on the execution of SCG LTM CATT CR Rel-18 38.331 18.7.0 5554 - F NR\_Mob\_enh2-Core

[R2-2507630](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507630.zip) Correction on the execution of SCG LTM CATT CR Rel-19 38.331 19.0.0 5558 - A NR\_Mob\_enh2-Core

Discussion

- Huawei think change is okay but CR coverpage needs some work

- Xiaomi supports the change

* For Rel-19 CR change to be added in section about SCG
* CR coverpage should clarify better the consequence if not approved
* CB [102] on Thursday. Agreeable in principle CRs in R2-2507712 (R18) and R2-2507713 (R19)

[R2-2507026](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507026.zip) Correction on stop of cg-RRC-RetransmissionTimer upon configuredGrantTimer expiration vivo CR Rel-18 38.321 18.7.0 2124 - F NR\_Mob\_enh2-Core

[R2-2507027](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507027.zip) Correction on stop of cg-RRC-RetransmissionTimer upon configuredGrantTimer expiration vivo CR Rel-19 38.321 19.0.0 2125 - A NR\_Mob\_enh2-Core

Discussion

- Ericsson this current text is not a problem and that that field is used also for other cases

- CATT think this is not correct

- Huawei wonders what is the effect of the change

- Nokia agree with Huawei and Ericsson that change is not needed

* CR is not pursued

[R2-2507220](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507220.zip) Corrections on validation of reported idle/inactive and reselection measurements Samsung CR Rel-18 38.331 18.7.0 5519 - F NR\_Mob\_enh2-Core

Discussion

- Samsung clarify that EMR is applicable to both NR and LTE

- Huawei points that tab are not used in ASN.1 but rather spaces.

* Style in ASN.1 should be fixed and coverpage has a sentence which is not completed
* CB on Thursday [103]. Agreeable in principle CRs in R2-2507714 (R18) and R2-2507715 (R19)

[R2-2507381](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507381.zip) Corrections on Rel-18 UE capabilities for LTM Huawei, HiSilicon CR Rel-18 38.306 18.7.0 1363 - F NR\_Mob\_enh2

[R2-2507382](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507382.zip) Corrections on Rel-18 UE capabilities for LTM Huawei, HiSilicon CR Rel-19 38.306 19.0.0 1364 - A NR\_Mob\_enh2

Discussion

- MTK is fine with the CR but example in the CR coverpage is wrong

- Nokia is okay with most of changes but ltm-MAC-CE-JointTCI-r18 implies that “joint” TCI are only used for the serving cell and this is not correct

* CB on Thursday [104]. Agreeable in principle CRs in R2-2507716 (R18) and R2-2507717 (R19)

[R2-2507526](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507526.zip) Miscellaneous corrections on mobility enhancements ZTE Corporation, Sanechips CR Rel-18 38.331 18.7.0 5540 - F NR\_Mob\_enh2-Core

[R2-2507527](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507527.zip) Miscellaneous corrections on mobility enhancements ZTE Corporation, Sanechips CR Rel-19 38.331 19.0.0 5541 - A NR\_Mob\_enh2-Core

Discussion

- Nokia thinks that change to procedural text is fine but maybe change in field desciptions are not needed

- Huawei is okay to add field descriptions but most of time are not needed.

* Changes related to LTM+Sidelink, LTM+MBS, and LTM+QoE are removed from the CR.
* CR is agreed in principle unseen in R2-2507718 (R18) and R2-2507719 (R19)

*Withdrawn*

R2-2506812 Correction on the execution of SCG LTM CATT CR Rel-18 38.331 18.6.0 5490 - F NR\_Mob\_enh2-Core Withdrawn

R2-2506813 Correction on the execution of SCG LTM CATT CR Rel-19 38.331 18.6.0 5491 - A NR\_Mob\_enh2-Core Withdrawn

# 8 NR Rel-19

## 8.6 Mobility Enhancement Ph4

(NR\_Mob\_Ph4-Core; leading WG: RAN2; REL-19; WID: [RP-252111](https://www.3gpp.org/ftp/tsg_ran/TSG_RAN/TSGR_109/Docs/RP-252111.zip))

Time budget: 0 TU

Tdoc Limitation: 2 tdocs

### 8.6.1 Organizational

Incoming LS, CR rapporteurs’ inputs, etc.

[R2-2506740](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2506740.zip) LS on definition of CSI-RS based L1 intra/inter-frequency measurement (R4-2512334; contact: Apple) RAN4 LS in Rel-19 NR\_Mob\_Ph4-Core To:RAN2 Cc:RAN1

* Noted

[R2-2506816](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2506816.zip) Report of [POST131][115][MOB] Open issues on UE capability (CATT) CATT discussion Rel-19 NR\_Mob\_Ph4-Core

* [AT131bis][105][MOB] Capabilities (CATT)

 **Scope:** Discuss open issues in R2-2506816, RIL V400, and P2 and P3 of R2-2507550.

 **Intended outcome:** Discussion summary in R2-2507720 and CRs (if possible) in R2-2507721 (331) and R2-2507722.

 **Deadline:** CB onThursday.

[R2-2507170](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507170.zip) 38.300 open issue list for R19 mobility Apple discussion Rel-19 NR\_Mob\_Ph4-Core

Discussion

- Apple thinks that there is no need for offline

* CLTM and CHO can be configured together (no specification changes are required)

[R2-2507121](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507121.zip) Miscellaneous corrections for stage-2 in Rel-19 Mobility Enhancements Apple Inc CR Rel-19 38.300 19.0.0 1040 - F NR\_Mob\_Ph4-Core

Discussion

- ZTE thinks that changes about security description should also apply to intra-CU case. We can just remove inter-CU.

* Remove the “inter-gNB” from the changes about security
* The CR is agreed in principle unseen in R2-2507723

[R2-2507012](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507012.zip) Miscellaneous corrections on MAC for Mob Ph4 vivo (Rapporteur) CR Rel-19 38.321 19.0.0 2123 - F NR\_Mob\_Ph4-Core

[R2-2507013](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507013.zip) List of MAC open issues for R19 mobility vivo discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2507014](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507014.zip) Discussion on MAC open issues for R19 mobility vivo discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2507401](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507401.zip) Mobility Review file Ericsson report Rel-19 NR\_Mob\_Ph4-Core

[R2-2507402](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507402.zip) Mobility Comments file Ericsson report Rel-19 NR\_Mob\_Ph4-Core

=> Revised in R2-2507658

[R2-2507658](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507658.zip) Mobility Comments file Ericsson report Rel-19 NR\_Mob\_Ph4-Core

[R2-2507403](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507403.zip) Mobility RILs conclusions Ericsson report Rel-19 NR\_Mob\_Ph4-Core

[R2-2507404](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507404.zip) Corrections on RRC for mobility enhancements Phase 4 Ericsson CR Rel-19 38.331 19.0.0 5529 - F NR\_Mob\_Ph4-Core

### 8.6.2 Control plane

Essential RRC corrections (including the issues related to RILs), stage-2, and UE capability corrections. Note stage-2 corrections may be handled with lower priority.

**1. [E005] Handling of radio bearers during LTM cell switch**

[R2-2507405](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507405.zip) Issue with handling of radio bearers during the LTM cell switch [E005] Ericsson, MediaTek Inc., Samsung, Huawei, HiSilicon, ZTE Corporation, Sanechips discussion Rel-19 NR\_Mob\_Ph4-Core

=> Revised in R2-2507659

[R2-2507659](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507659.zip) Issue with handling of radio bearers during the LTM cell switch [E005] Ericsson, MediaTek Inc., Samsung, NEC, Huawei, HiSilicon, ZTE Corporation, Sanechips, Nokia discussion Rel-19 NR\_Mob\_Ph4-Core

Proposal 1: RAN2 to agree on one of these two solutions to solve the problem with the bearer handling in LTM:

a. Solution 1: It is clarified in the procedural text that, upon the execution of an LTM cell switch procedure, the UE releases all RLC bearers (configurations and bearers itself).

b. Solution 2: A new field is introduced within the LTM candidate configuration (which is set by the candidate cell) which indicates to the UE to release all RLC bearers (configurations and bearers itself).

Discussion

- QC wonder if this changes the handling for the RLC bearers

- CATT think that target needs to anyway read the container to provide a delta

- Huawei explains that handling for radio bearer configuration is different because some fields of the configuration cannot be changed

- MTK clarify that is clear in the spec that change of some parameters of the RLC radio bearer configuration is forbiden

- Apple is fine with solution 1

- MTK is also fine with solution 1

* It is clarified in the procedural text that, upon the execution of an LTM cell switch procedure with security key change, the UE releases all RLC bearers (configurations and bearers itself).
* We capture the agreement in the RRC Rapporteur’s CR
* The RIL E005 is marked as PropAgree

**2. [M202] Handling report configuration for early CSI acquisition**

[R2-2506814](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2506814.zip) [M202] control plane issues for LTM CATT discussion Rel-19 NR\_Mob\_Ph4-Core

Proposal 1 [M202]: To support early CSI reporting for subsequent LTM, UE should maintain the ltm-CSI-ReportConfig-r19 for early CSI reporting associated with the LTM candidate.

[R2-2506924](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2506924.zip) [B110] [B111] [M202] Maintenance of CSI resource and CSI report configuration after cell switch Lenovo discussion Rel-19 Late

Proposal 1: UE releases LTM-CSI-ReportConfig IE in LTM-candidate IE e.g., after CSI reporting at the target cell after or during cell switch triggered by LTM.

Discussion

- CATT suggest to configure the IE to setupRelease and let the network to handle what the UE should do

- MTK agree with CATT

- Huawei also agree with CATT

* The field ltm-CSI-ReportConfig-r19 within LTM-Candidate IE is changed to SetupRelease
* We capture the agreement in the RRC Rapporteur’s CR
* The RIL M202 is marked as PropAgree

**3. [H150] Configuration of execution conditions**

[R2-2507378](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507378.zip) RRC issues for LTM Huawei, HiSilicon discussion Rel-19 NR\_Mob\_Ph4-Core Late

Proposal 1: Use a single field for execution conditions i.e.,

- in LTM-Candidate, remove ltm-ExecutionCondition;

- remove the corresponding procedure text in 5.8.5.18.6;

- in the RRCReconfiguration message contained in ltm-CandidateConfig, allow including ltm-Config but with ltm-ServingCellExecutionCondition as the only present field.

Discussion

- Ericsson clarify that serving conditions are for the case on when serving cell is not a candidate cell

- Huawei clarify that we can only have in one place and UE apply what it receives

- MTK think that Huawei solution is not very clean. Huawei mentions that we can have a UE variable.

- Nokia same view as MTK

* CB [106] on Thursday. We try to produce a TP in R2-2507724, otherwise we pospone.

**4. [H151] Configuration of L1 event-trigger report & execution condition**

[R2-2507378](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507378.zip) RRC issues for LTM Huawei, HiSilicon discussion Rel-19 NR\_Mob\_Ph4-Core Late

Proposal 3a: Create a new ToAddModList and ToReleaseList in MAC-CellGroupConfig for LTM L1 event-triggered reports.

Proposal 3b: Create a new ToAddModList and ToReleaseList in MAC-CellGroupConfig for L1 events used for execution conditions.

Discussion

- Nokia understand that this needs also to be part of servingCellConfig of the SpCell

- QC agrees with Nokia

- Samsung agree with Nokia

* We clarify in field description that ltm-CSI-ReportConfig and ltm-CSI-ResourceConfig can only be configured within ServingCellConfig of the SpCell.
* We capture the agreement in the RRC Rapporteur’s CR
* The RIL H151 is marked as PropAgree

**5. [X153][X152] Configuration of L1 event-trigger report & execution condition**

[R2-2507434](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507434.zip) [X153] [X152] Discussion on RILs X153 and X152 Xiaomi discussion Rel-19 NR\_Mob\_Ph4-Core

Proposal 1: Regarding issues pointed out in observation 1 (X153) and observation 2 (X152), following corrections can be considered and the proposed TP in Annex can be agreed:

- Change the bullet number of the procedure for whether to perform RLC re-establishment and PDCP data recovery (AM DRB) based on the Rel-18 ID (i.e., the corresponding L2 reset operation as defined in Rel-18) to the next level bullet of the conditions about Rel-19 ID, rather than the same level bullet.

- Replace the condition “else if the field ltm-NoSecurityChangeID is not configured for the LTM-Candidate IE in ltm-Config or ltm-ConfigNRDC indicated by lower layers and if the UE does not have any value stored of ltm-ServingCellNoSecurityChangeID within VarLTM-ServingCellNoSecurityChangeID; or” with "1> else:".

- Change the procedure for the update of Rel-18 ID of serving cell to the first level bullet (i.e., “1>”).

Discussion

- Huawei thinks the TP is okay but for the first bullet (1>) we need to also check whether there is a value (on top of whether the Rel-19 IDs are different).

- MTK agree with Xiaomi and change proposed by Huawei

* TP in R2-2507434 is agreed to be merged in the RRC Rapporteur’s CR with the change proposed by Huawei (check in first 1> whether there is a value (on top of whether the Rel-19 IDs are different)
* RIL X153 and X152 are marked as PropAgree

**5. [Z155] The missing description for VarLTM-ServingCellNoSecurityChange**

[R2-2507528](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507528.zip) Discussion on RIL issue [Z155][Z157] ZTE Corporation, Sanechips discussion Rel-19 NR\_Mob\_Ph4-Core

Proposal 1a: [Z155] RAN2 to confirm that the NW can configure MCG LTM with NoSecurityChangeID in ltm-Config and SCG LTM with NoSecurityChangeID in ltm-ConfigNRDC simultaneously, for the coexistence of Intra-CU MCG/SCG LTM and Inter-CU SCG/MCG LTM.

Proposal 1b: [Z155] The UE can maintain two independent VarLTM-ServingCellNoSecurityChange, one associated with the ltm-Config and one associated with the ltm-ConfigNRDC, if both are configured.

Discussion

- Nokia understand that security key change at both MCG and SCG is not allowed

- Xiaomi shares the same view as Nokia

- MTK think that ZTE analysis is correct

- Vivo asks whether network is in control of the IDs

* The TP proposed in R2-2507528 is agreed to be merged in the RRC Rapporteur’s CR
* The RIL Z155 is marked as PropAgree

**6. [Z157] Release SCG configuration in case of MCG LTM with SCG configuration**

[R2-2507528](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507528.zip) Discussion on RIL issue [Z155][Z157] ZTE Corporation, Sanechips discussion Rel-19 NR\_Mob\_Ph4-Core

Proposal 2: [Z157] RAN2 to discuss how to handle the release of the current SCG configuration in case of MCG LTM with SCG configuration:

• Option 1: The network does not set mrdc-ReleaseAndAdd for MCG LTM with SCG configuration, and the UE autonomously release the SCG part of the current UE configuration upon LTM cell switch execution, i.e. follow the same actions as LTM cell switch triggered on the SCG (see TP2-1 in the Annex).

• Option 2: The network always sets mrdc-ReleaseAndAdd for MCG LTM with SCG configuration, but the UE shall not release the LTM configuration for the SCG if MR-DC release is triggered due to LTM cell switch execution for MCG LTM with SCG configuration (see TP2-2 in the Annex).

Discussion

- Huawei is okay with Option 2 but TP is not ok. We need to clarify what is released depending on which case.

- MTK slightly prefer Option 1.

* CB [107] on Thursday. ZTE to provide a TP in R2-2507725 for Option 2 according to Huawei comment.

**7. [S036] Release SCG configuration in case of MCG LTM with SCG configuration**

[R2-2507238](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507238.zip) [S036][S037]Discussion on Mobility RILs Samsung discussion Late

Proposal 1: [S036] Update L1-MeasConfigNRDC to include CSI-RS measurement related capabilities.

* We add capability for CSI-RS measurements (and potentially new capabilities coming from RAN1 or RAN4) in INM
* We capture the agreement in the RRC Rapporteur’s CR
* The RIL S036 is marked as PropAgree

**8. [S037] Mandatory LTM information in inter-node RRC message**

[R2-2507238](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507238.zip) [S036][S037]Discussion on Mobility RILs Samsung discussion Late

Proposal 2: [S037] Absence of LTM configuration and Reference configuration in in CG-Config and CG-ConfigInfo means that the receiver maintains the values informed via the previous message.

Discussion

- ZTE is fine for the reference configuration but for the ltm-Config we can wait in case it should be removed due to RAN3.

* We add ltm-ReferenceConfigurationSCG, ltm-Config, ltm-ReferenceConfigurationMCG in the exeption list in section 11.2.3 of TS 38.331.
* We capture the agreement in the RRC Rapporteur’s CR
* The RIL S037 is marked as PropAgree

**9. [N101] Description of reference configuration**

[R2-2507436](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507436.zip) Remaining Open Issues for RRC Nokia discussion

Proposal 4: The description of reference configuration is modified to reflect the changes corresponds to Inter-CU SCG LTM. The proposed changes are given in Annexure.A.3

Discussion

- Huawei think that what is apply for what is already clear from the procedural text. We can clarify that it is used to provide a configuration which is used for a set of non-completed LTM candidate configurations.

- Nokia is fine with Huawei proposal

* In the description ReferenceConfig IE it is clarified that this is a configuration which is used for a set of non-completed LTM candidate configurations.
* We capture the agreement in the RRC Rapporteur’s CR
* The RIL N101 is marked as PropAgree

**10. [N102] Field description of ltm-ConfigurationSCG**

[R2-2507436](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507436.zip) Remaining Open Issues for RRC Nokia discussion

Proposal 5: The restrictions on inclusion of ltm-configurationSCG in RRC-Configuration for certain cases should be moved to the top-level structure LTM-Config-NRDC. TP provided in A.4

Discussion

- MTK agree with the change

- Huawei is also okay with the change

* The restriction which is now in ltm-ConfigurationSCG is moved to field description of ltm-ConfigNRDC.
* We capture the agreement in the RRC Rapporteur’s CR
* The RIL N102 is marked as PropAgree

[R2-2507093](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507093.zip) RRC open issues for R19 mobility OPPO discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2506814](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2506814.zip) [M202] control plane issues for LTM CATT discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2506924](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2506924.zip) [B110] [B111] [M202] Maintenance of CSI resource and CSI report configuration after cell switch Lenovo discussion Rel-19 Late

[R2-2507015](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507015.zip) Discussion on RRC open issues for R19 mobility vivo discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2507238](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507238.zip) [S036][S037]Discussion on Mobility RILs Samsung discussion Late

[R2-2507378](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507378.zip) RRC issues for LTM Huawei, HiSilicon discussion Rel-19 NR\_Mob\_Ph4-Core Late

[R2-2507434](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507434.zip) [X153] [X152] Discussion on RILs X153 and X152 Xiaomi discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2507436](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507436.zip) Remaining Open Issues for RRC Nokia discussion

[R2-2507528](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507528.zip) Discussion on RIL issue [Z155][Z157] ZTE Corporation, Sanechips discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2507550](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507550.zip) Remaining CP issues in R19 mobility MediaTek Inc. discussion Rel-19 NR\_Mob\_Ph4-Core

### 8.6.3 User plane

Essential MAC corrections.

* [AT131bis][108][MOB] MAC corrections (vivo)

 **Scope:** Discuss MAC-V03, MAC-O02, MAC-S02, MAC-H03, MAC-H04 (II Part), MAC-O01, MAC-O03, MAC-M01, MAC-K02. If there is time, other issues also can be included but only if there is good support.

 **Intended outcome:** Report in R2-2507726.

 **Deadline:** Offline on Tuesday Oct 14th (10:00-11:00, main room).

**1. MAC-V01 RACH based LTM with MIMO 2TA**

[R2-2507014](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507014.zip) Discussion on MAC open issues for R19 mobility vivo discussion Rel-19 NR\_Mob\_Ph4-Core

Proposal 1: [MAC-V01] RAN2 selects from the following three options to address the mismatch issue that the TCI state ID indicated in the LTM Cell Switch Command MAC CE and TA value in the RAR within the RACH-based LTM procedure are associated with different TAGs:

- Option 2: Target DU sends a new TCI state in RACH Msg 4.

- Option 3: If the mismatch issue occurs, UE follows the TCI state associated with the RACH-based LTM procedure. Otherwise, UE follows the indicated TCI state in the LTM cell switch command.

- Option 4: UE selects the SSB associated with the same TAG ID as the TAG ID associated with the indicated TCI state in LTM Cell Switch Command MAC CE during the RACH-based LTM procedure.

[R2-2507573](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507573.zip) User Plane issues for CLTM and event triggered L1 MR Sharp discussion Rel-19 NR\_Mob\_Ph4-Core

Proposal 1: (MAC-V01) Rel-18 agreement and solution can be applied to Rel-19 inter-CU LTM, i.e., no spec impact is needed.

**2. MAC-V02 CFRA resource in LTM Cell Switch Command MAC CE**

[R2-2507014](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507014.zip) Discussion on MAC open issues for R19 mobility vivo discussion Rel-19 NR\_Mob\_Ph4-Core

Proposal 3: [MAC-V02] For inter-CU LTM, a target cell specific CFRA resource pool could be provided by target gNB-DU to source gNB-DU, and the CFRA resource are assigned by S-DU in the LTM cell switch command MAC CE.

[R2-2507078](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507078.zip) Handling of MAC open issues on C(LTM) Samsung discussion Rel-19 NR\_Mob\_Ph4-Core

Proposal 2: No need to discuss and specify anything in R19 for MAC-V02.

**3. MAC-V04 TA update of CLTM TAT**

[R2-2507014](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507014.zip) Discussion on MAC open issues for R19 mobility vivo discussion Rel-19 NR\_Mob\_Ph4-Core

Proposal 7: [MAC-V04] Upon receiving an LTM Cell switch Command MAC CE with valid TA, UE shall store the TA value for the target cell and start or restart the CLTM TAT of the target cell.

[R2-2507573](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507573.zip) User Plane issues for CLTM and event triggered L1 MR Sharp discussion Rel-19 NR\_Mob\_Ph4-Core

Proposal 5: (MAC-V04) When the UE receives LTM cell switch command including a TA value and this command indicate one LTM candidate cell, the UE does NOT maintain this TA value as a TA value for a candidate cell and does NOT start associated TAT for CLTM.

**4. MAC-O03 Handling of TA when CLTM candidate is released**

[R2-2507094](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507094.zip) MAC open issues for R19 mobility OPPO discussion Rel-19 NR\_Mob\_Ph4-Core

Proposal 3: Upon release of the CLTM execution condition, the UE stops CLTM TAT if running even if the corresponding LTM candidate configuration is kept.

[R2-2507457](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507457.zip) Discussion on remaining User Plane issues Ericsson discussion Rel-19 NR\_Mob\_Ph4-Core

Proposal 7: (MAC-O03) The UE keeps any TA validity timer for an LTM candidate which has its execution conditions removed.

**5. MAC-V05/MAC-K01/MAC-N01 Handling of TA when CLTM candidate is released**

[R2-2507014](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507014.zip) Discussion on MAC open issues for R19 mobility vivo discussion Rel-19 NR\_Mob\_Ph4-Core

Proposal 8: [MAC-V05] Upon receiving an (Absolute) Timing Advance Command MAC CE or a RAR, UE shall store the TA value and start or restart the CLTM TAT of the candidate cell(s) that share the same PCI as the serving cell(s) of the TAG.

[R2-2507573](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507573.zip) User Plane issues for CLTM and event triggered L1 MR Sharp discussion Rel-19 NR\_Mob\_Ph4-Core

Proposal 6. (MAC-V05, MAC-K01, MAC-N01) When the UE receives a TAC MAC CE for a serving cell, UE does NOT store a valid TA value for a CLTM candidate cell and update its CLTM TAT of the source cell for possible RACH-less CLTM back to the source cell.

**6. MAC-F02 Handling of TA when CLTM candidate is released**

[R2-2507190](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507190.zip) [MAC-F02] Threshold for beam selection Ofinno discussion Rel-19 NR\_Mob\_Ph4

Proposal 1. For beam selection for L3-based RACH-less CLTM based on a configured threshold, RAN2 to agree the configured threshold is one of:

ALT1: Reusing existing Rel-18 threshold (cg-RRC-RSRP-ThresholdSSB), according to TP1 for ALT1;

ALT2: Introduce new Rel-19 threshold (cg-LTM-RSRP-ThresholdSSB), according to TP2 for ALT2.

[R2-2506815](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2506815.zip) Discussion on SP CSI-RS and CSI-IM for early CSI acquisition CATT discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2507304](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507304.zip) Collision between PUSCH for early CSI and measurement gap NEC discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2507078](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507078.zip) Handling of MAC open issues on C(LTM) Samsung discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2507094](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507094.zip) MAC open issues for R19 mobility OPPO discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2507190](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507190.zip) [MAC-F02] Threshold for beam selection Ofinno discussion Rel-19 NR\_Mob\_Ph4

[R2-2507379](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507379.zip) MAC issues for LTM Huawei, HiSilicon discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2507435](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507435.zip) Discussion on mobility MAC open issues Xiaomi discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2507457](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507457.zip) Discussion on remaining User Plane issues Ericsson discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2507462](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507462.zip) On the open MAC issues for Rel-19 LTM Nokia discussion Rel-19 NR\_Mob\_Ph4

[R2-2507485](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507485.zip) LTM MAC remaining issues Qualcomm Incorporated discussion

[R2-2507529](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507529.zip) Discussion on MAC open issues ZTE Corporation, Sanechips discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2507537](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507537.zip) Discussion on MAC open issues for CLTM ASUSTeK discussion Rel-19 38.321 NR\_Mob\_Ph4-Core

[R2-2507551](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507551.zip) Remaining MAC issues in R19 mobility MediaTek Inc. discussion Rel-19 NR\_Mob\_Ph4-Core

[R2-2507573](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_131bis/Docs/%0DR2-2507573.zip) User Plane issues for CLTM and event triggered L1 MR Sharp discussion Rel-19 NR\_Mob\_Ph4-Core