3GPP TSG-RAN WG2 Meeting #125bis R2-240xxx

Changsha, China, April 15th – 19th, 2024

Title Report from session on Mobility Enh and Mobile IAB

Source Session Chair (MediaTek Johan)

Agenda 9.5

Offline discussions

* [AT125bis][501][mIAB] (ZTE)

 Scope: Based on R2-2403576, determine agreeable part, agreeable text

 Intended outcome: revised agreeable 38300 CR, report if needed.

 Deadline: CB Thursday, see schedule.

## 7.4 Further NR mobility enhancements

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

Time budget: 0 TU)

Tdoc Limitation: 5 tdocs (if you want to input beyond the tdoc limitation, please cooperate with CR Rapporteurs).

Offline = considered offline: Ph1, determine agreeable part (if any), Ph2 CR/TP

### 7.4.1 Organizational

Including LSs.

LS in

[R2-2402117](file:///C%3A%5C%5CUsers%5C%5Cmtk65284%5C%5CDocuments%5C%5C3GPP%5C%5Ctsg_ran%5C%5CWG2_RL2%5C%5CRAN2%5C%5CDocs%5C%5CR2-2402117.zip%22%20%5Co%20%22C%3AUsersmtk65284Documents3GPPtsg_ranWG2_RL2RAN2DocsR2-2402117.zip) LS on TCI state after cell switch command for LTM R1-2401785; contact: Fujitsu RAN1 LS in Rel-18 NR\_Mob\_enh2-Core To:RAN2

[R2-2402131](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402131.zip) LS on R18 mobility - Improvement on SCell/SCG setup delay (R4-2403549; contact: Apple) RAN4 LS in Rel-18 NR\_Mob\_enh2-Core To:RAN2

Other

[R2-2403174](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403174.zip) Miscellaneous corrections on further mobility enhancements in NR Ericsson CR Rel-18 38.331 18.1.0 4705 - F NR\_Mob\_enh2-Core Late

[R2-2403175](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403175.zip) RILs conclusions for feMob Ericsson discussion Rel-18 NR\_Mob\_enh2-Core Late

PropAgree: X121 [X122, X123], M020, E232, E202, E219 [O204], E233, E204, C128 [M023], H083, H114 [O203], E234, E237, M022, H093, S810, Z045, H143, E217, N112, Z047, M024, E238, E239, E209, E210, E211, E212, H092 [F036], H091 [F036], M025, M026, M027, M029, M028, E241

PropReject, and no tdocs: E203, N092, E206, E207, E208, G126, O205, H086, N134, E213,

[R2-2403176](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403176.zip) Discussion on RILs conclusion Mobillity Ericsson discussion Rel-18 NR\_Mob\_enh2-Core Late

### 7.4.2 Stage-2 Corrections

Corrections to 38300 (MTK) and 37340 (ZTE) and stage-2 centric issues (including tdocs on stage-2 centric issue that also impact other TS). Preferably work with CR Rapporteurs for Stage-2 corrections instead of separate CRs. only

Offline

[R2-2402747](file:///C%3A%5C%5CUsers%5C%5Cmtk65284%5C%5CDocuments%5C%5C3GPP%5C%5Ctsg_ran%5C%5CWG2_RL2%5C%5CRAN2%5C%5CDocs%5C%5CR2-2402747.zip%22%20%5Co%20%22C%3AUsersmtk65284Documents3GPPtsg_ranWG2_RL2RAN2DocsR2-2402747.zip) Miscellaneous corrections for mobility enhancements in TS 37.340 ZTE Corporation CR Rel-18 37.340 18.1.0 0391 - F NR\_Mob\_enh2-Core

[R2-2402995](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402995.zip) Misc corrections on LTM MediaTek Inc., Ericsson CR Rel-18 38.300 18.1.0 0842 - F NR\_Mob\_enh2-Core

### 7.4.3 RRC Corrections

RRC corrections and Control Plane Centric Issues (including tdocs on control plane centric issue that also impact other TS). Including ASN.1 review issues and their resolutions.

#### 7.4.3.1 L1L2 Triggered Mobility

RILs

PropDisc:

 S792 SRB3 release during SCPAC and LTM (Samsung, Nokia, Ericsson),

 E231/E074 Transaction ID etc (Ericsson, CATT, Apple),

E068 Security Config for bearer setup in candidate config (ericsson, CATT, MTK, Huawei, Nokia)

E240 Erroneous RA-RNTI forward target to src DU (Ericsson)

C127 [F034, M021] Issue with Continue Count (CATT, Fujitsu, MediaTek),

C129 Multiple LTE recovery attempts (CATT)

 H096 Associated with the MCG vs. not associated with any CG (Huawei),

(no tdoc) E236 misplaced release config, E235 clarification of SRBDRB using master key / secondary key (Ericsson)

PropReject but covered in tdocs:

 G125 LTM cell switch confirm while MCG is not avilable (Google),

 B120 B121 LTM – Cond Config Coex Execution Race conditions (Lenovo),

 N133 Reference Configuration application (Nokia),

 F031 FD for CFRA erroneous [F032] F033 FD CFRA add condition from 38300 (Fujitsu),

 F035 State variable continuation at LTM fast recovery (Fujitsu),

 H095 H094 LTM TCI Config (Huawei),

[R2-2403653](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403653.zip) [S792] SRB3 release during SCPAC and LTM Samsung discussion Late

[R2-2403308](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403308.zip) On Mobility RILs [E068] and [S792] Nokia discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2403177](file:///C%3A%5C%5CUsers%5C%5Cmtk65284%5C%5CDocuments%5C%5C3GPP%5C%5Ctsg_ran%5C%5CWG2_RL2%5C%5CRAN2%5C%5CDocs%5C%5CR2-2403177.zip%22%20%5Co%20%22C%3AUsersmtk65284Documents3GPPtsg_ranWG2_RL2RAN2DocsR2-2403177.zip) [E068][E231][E074][E240][S792]Resolution of remaining RILs for LTM Ericsson discussion Rel-18 NR\_Mob\_enh2-Core Late

[R2-2402499](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402499.zip) [E074][E068] On Postponed RRC Issues CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2402234](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402234.zip) [E068] On SecurityConfig for LTM MediaTek Inc. discussion NR\_Mob\_enh2-Core

[R2-2402905](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402905.zip) Handling the transaction ID issue with LTM Apple discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2403263](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403263.zip) Indication of the LTM configuration ID by the UE Apple CR Rel-18 38.331 18.1.0 4715 - F NR\_Mob\_enh2-Core

[R2-2402498](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402498.zip) [C127][C128][C129] RRC Issues on LTM CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2403519](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403519.zip) [F034][F035] Further issues on state variable continuation at fast LTM recovery Fujitsu discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2403284](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403284.zip) [H091][H092][H093][E068][H094][H095][H096] RRC remaining issues for LTM Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2403712](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403712.zip) [B120][B121]coexistence of LTM and conditional reconfiguration Lenovo discussion Rel-18 NR\_Mob\_enh2-Core

Offline?

[R2-2402744](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402744.zip) Discussion on remaining issues for LTM ZTE Corporation discussion Rel-18 NR\_Mob\_enh2-Core

Offline?

[R2-2402265](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402265.zip) [F013-015] [F031-033] Corrections to TS 38.331 on LTM Fujitsu discussion Rel-18 NR\_Mob\_enh2-Core

Offline??

[R2-2403299](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403299.zip) On Reference Configuration [N133] and Early Processing of LTM candidates in Rel-18 Nokia discussion Rel-18 NR\_Mob\_enh2-Core

P4 offline?

[R2-2403454](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403454.zip) [G125] Discussion on LTM cell switch execution during fast MCG recovery procedure Google Inc. discussion Rel-18 38.331 NR\_Mob\_enh2-Core

Enh description offline (no funct enhancement)?

SCG LTM at MCG failure recovery

Open issue last meetings

[R2-2403493](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403493.zip) Discussion on SCG LTM while MCG failure recovery Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

T304 & TAT

[R2-2402921](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402921.zip) Discussion on TAT expiry during LTM execution Samsung discussion Rel-18 NR\_Mob\_enh2-Core

Coexistence

Left overs:

- LTM – NR-U

- LTM/RACHless HO – NES: cell DTXDRX, left over issues, if any.

- LTM – Relaxed measurements (if there is a need

[R2-2402846](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402846.zip) Remaining coexistence issue for LTM Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2402439](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402439.zip) Discussion on cross-feature issues for LTM OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2403513](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403513.zip) Rel-18 L1/L2 triggered mobility remaining issues Sharp discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2403178](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403178.zip) Co-existance of LTM with NES, NR-U, and other features Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2403374](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403374.zip) On Support 2TA For LTM Candidate ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2402236](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402236.zip) LTM and MIMO 2TA MediaTek Inc. discussion NR\_Mob\_enh2-Core

[R2-2403279](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403279.zip) Remaining Co-existence Aspects of LTM with L3 Mobility and DC Nokia discussion Rel-18 NR\_Mob\_enh2-Core

LTM Fast Recovery

[R2-2402235](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402235.zip) Fast Recovery with LTM Candidates MediaTek Inc. discussion NR\_Mob\_enh2-Core

[R2-2402436](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402436.zip) Discussion on RRC issues for LTM OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2402609](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402609.zip) Discussion on the LTM fast recovery after RLF triggered by maximum number of RLC retransmissions vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2403032](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403032.zip) Clarification on handling of conditional reconfiguration upon LTM-based recovery LG Electronics discussion Rel-18 NR\_Mob\_enh2-Core

Other

[R2-2402996](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402996.zip) RRC signaling related TCI state configurations Panasonic discussion Rel-18

Offline?

[R2-2402610](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402610.zip) Discussion on the impact of s-Measure on L1 measurement discussion vivo discussion Rel-18 NR\_Mob\_enh2-Core

Offline? Not strictly needed but can consider if no objection

[R2-2403187](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403187.zip) Control plane centric issues for LTM Langbo discussion Rel-18 38.331 NR\_Mob\_enh2-Core

Offline?

[R2-2402723](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402723.zip) Fallback for RACH-less LTM Lenovo discussion Rel-18

#### 7.4.3.2 Conditional Mobility

Includes both Subsequent CPAC and CHO including target MCG and candidate SCGs for CPC CPA in NR-DC.

RILs

PropDisc:

 C126 CHO with SCG (CATT),

H097 SecurityCellSetID (Huawei),

H084 Change of termination point (Huawei)

 C146 Cand Cell evaluation [N91] (CATT, Nokia?)

N93 SCPAC based on MCG measurement ID (Nokia), (tdoc?)

PropReject but covered in tdocs:

 C130 Presence condition of scpac-ConfigComplete (CATT),

 H085 Unclarities and duplications in SCPAC execution procedure (HW),

 C144 Validity of stored condExecutionCondSC {CATT}

C145 Limition on allowing NW to update SCPAC configuration after SCG release/PCell change/PSCell change {CATT}

C147 MCG MAC reset (CATT),

[R2-2402500](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402500.zip) [C126] RRC Issue on CHO with SCGs CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2403285](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403285.zip) [H083][H084][H085][H087][H097][H114] Remaining issues for subsequent CPAC Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2402501](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402501.zip) [C144][C145][C146][C130][C147] RRC Issues on SCPAC CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2403285](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403285.zip) [O203] Issue on RRCReconfigurationComplete message delivery for intra-SN SCPAC OPPO (chongqing) Intelligence discussion Rel-18 NR\_Mob\_enh2-Core

Wrong tdoc no, PropAgree H114 [O203]

[R2-2403252](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403252.zip) Open issues for subsequent CPAC Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

Parts offline?

[R2-2402611](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402611.zip) Discussion on simultaneous evaluation for both condRRCReconfig and condExecutionCondSCG vivo discussion Rel-18 NR\_Mob\_enh2-Core

Offline?

[R2-2402745](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402745.zip) Discussion on inter-node RRC message for intra-SN SCPAC in MN format ZTE Corporation discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2402931](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402931.zip) Considerations on CHO with SCG(s) and Subsequent CPAC Samsung R&D Institute UK discussion

[R2-2402967](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402967.zip) Discussion on remaining issues of L2 reset for SCPAC NEC discussion Rel-18 NR\_Mob\_enh2-Core

Further Enhancements

[R2-2403145](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403145.zip) RIL-N091 and other remaining open issues for SCPAC Nokia discussion

#### 7.4.3.3 eEMR and IMR

RILs

PropDisc:

 N111 (Nokia), Z044, Z046 (ZTE), H144 [H146, H147], H145 (Huawei), X124 (Xiaomi),

PropReject but covered in tdocs:

 Z048 (ZTE).

[R2-2403596](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403596.zip) [N111][N112] Discussion and TP for EMR and non-EMR Nokia discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2403644](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403644.zip) CA-DC capability checking for Reselection Measurement Reporting LG Electronics Inc. discussion NR\_Mob\_enh2-Core

[R2-2402746](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402746.zip) Remaining issues on eEMR and IMR ZTE Corporation discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2403253](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403253.zip) Discussion on early measurements enhancements Ericsson discussion Rel-18 NR\_Mob\_enh2-Cor

[R2-2403286](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403286.zip) [H144][H145][H146][H147] Issues on eEMR and IMR Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2403720](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403720.zip) [X124] Discussion on validity status Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2402328](file:///C%3A%5C%5CUsers%5C%5Cmtk65284%5C%5CDocuments%5C%5C3GPP%5C%5Ctsg_ran%5C%5CWG2_RL2%5C%5CRAN2%5C%5CDocs%5C%5CR2-2402328.zip%22%20%5Co%20%22C%3AUsersmtk65284Documents3GPPtsg_ranWG2_RL2RAN2DocsR2-2402328.zip) Discussion on eEMR SCell setup delay vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2402440](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402440.zip) Open issues for IMR and eEMR OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2403494](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403494.zip) Discussion on eEMR and IMR Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

### 7.4.4 MAC Corrections

MAC corrections and User Plane Centric Issues (including tdocs on user plane centric issue that also impact other TS)

[R2-2403287](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403287.zip) Miscellaneous corrections for further mobility enhancements Huawei, HiSilicon CR Rel-18 38.321 18.1.0 1817 - F NR\_Mob\_enh2-Core

[R2-2403288](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403288.zip) MAC remaining issues for LTM Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2402502](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402502.zip) MAC Issues for LTM CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2403280](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403280.zip) On the LTM Cell Switch Aspects Nokia discussion Rel-18 NR\_Mob\_enh2-Core

P2 P3 P4 P6 offline, others dep

[R2-2403373](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403373.zip) Considerations On Remaining MAC Issues For LTM ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

P4

[R2-2402366](file:///C%3A%5C%5CUsers%5C%5Cmtk65284%5C%5CDocuments%5C%5C3GPP%5C%5Ctsg_ran%5C%5CWG2_RL2%5C%5CRAN2%5C%5CDocs%5C%5CR2-2402366.zip%22%20%5Co%20%22C%3AUsersmtk65284Documents3GPPtsg_ranWG2_RL2RAN2DocsR2-2402366.zip) MAC corrections for LTM Samsung Electronics Co., Ltd discussion Rel-18 NR\_Mob\_enh2-Core

P4

[R2-2402266](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402266.zip) Corrections to TS 38.321 on LTM Fujitsu discussion Rel-18 NR\_Mob\_enh2-Core

P1 P4 offline

[R2-2403464](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403464.zip) Corrections for remaining issues on MAC LG Electronics Inc. discussion Rel-18 NR\_Mob\_enh2-Core

P1 offline

[R2-2402581](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402581.zip) Discussion on UL collision with early UL synchronization in LTM ASUSTeK discussion Rel-18 38.321 NR\_Mob\_enh2-Core

Offline

[R2-2402612](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402612.zip) Discussion on MAC open issues for LTM vivo discussion Rel-18 NR\_Mob\_enh2-Core

P1 offline

[R2-2403186](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403186.zip) User plane centric issues for LTM Langbo discussion Rel-18 38.321 NR\_Mob\_enh2-Core

Offline

[R2-2402438](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402438.zip) Discussion on TCI state related issues OPPO discussion Rel-18 NR\_Mob\_enh2-Core

Related to LS in

[R2-2402579](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402579.zip) Discussion on fallback RACH for LTM ASUSTeK discussion Rel-18 38.321 NR\_Mob\_enh2-Core

[R2-2402437](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402437.zip) Discussion on remaining MAC issues for LTM OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2402580](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402580.zip) Discussion on LTM candidate configuration for different CGs ASUSTeK discussion Rel-18 38.321 NR\_Mob\_enh2-Core

[R2-2402613](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402613.zip) Discussion on the remaining issues for LTM with MIMO two TA vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2402845](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402845.zip) Discussion on the SFN acquisition for LTM Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2402966](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402966.zip) Discussion on DRX and measurement gap enhancement for RACH-less mobility NEC, Huawei, HiSilicon, Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2402984](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402984.zip) Support of Activating the Flexible Number of TCI States using Candidate Cell TCI States Activation/Deactivation MAC CE Samsung discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2403101](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403101.zip) Discussion on RV and carrier selection for RACH-less LTM NEC discussion Rel-18 NR\_Mob\_enh2-Cor

Further Enhancement

[R2-2403179](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403179.zip) Adding SR resources within the LTM cell switch MAC CE Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

### 7.4.5 UE capabilities

[R2-2402409](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402409.zip) Remaining UE capability issues for feMob Intel Corporation discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2403665](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403665.zip) Capabilities for PDCCH-ordered RACH           Ericsson   discussion

Moved from 7.0

[R2-2403289](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403289.zip) Discussion on LTM UE capability Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2403180](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403180.zip) [E250] Correction on capabilities for LTM Ericsson discussion Rel-18 NR\_Mob\_enh2-Core Late

[R2-2402237](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402237.zip) UE Capabilities for CHO with Candidate SCG MediaTek Inc. discussion NR\_Mob\_enh2-Core

[R2-2403495](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403495.zip) Discussion on UE capabilities for Rel-18 Mobility Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

## 7.12 Mobile IAB (Integrated Access and Backhaul) for NR

( NR\_mobile\_IAB -Core; leading WG: RAN3; REL-18; WID: [RP-232669](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_101/Docs/RP-232669.zip))

Time budget: N/A

Tdoc Limitation: 2 tdocs (if you want to input beyond the tdoc limitation, please cooperate with CR Rapporteurs).

NOTE that RACH-less for mIAB (and some other WIs) is handled in the common session under AI 7.0.4.

### 7.12.1 Organizational and Stage-2

LS in. Includes TS impacts 38300 and Stage-2 Centric issues (can also cover secondary impacts to other TSes)

Stage-2’ish

[R2-2403576](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_125bis%5CDocs%5CR2-2403576.zip) Clarification on supporting two logical DUs and connecting via stationary IAB node ZTE, Sanechips CR Rel-18 38.300 18.1.0 0853 - F NR\_mobile\_IAB-Core

- non-captured discussion

- Session Chair: at least the second part of the second change seems to add significant info cmp to 38401, there are some comments that the first change is not needed. Can discuss offline

* [AT125bis][501][mIAB] (ZTE)

 Scope: Based on R2-2403576, determine agreeable part, agreeable text

 Intended outcome: revised agreeable 38300 CR, report if needed.

 Deadline: CB Thursday, see schedule.

R2-2402644 Requirement on the SIB1 indicator presence for the mobile IAB-node Huawei, HiSilicon discussion Rel-18 NR\_mobile\_IAB-Core

- Nokia think the shall be optional.

- LGE support

- QC think this is not needed from network point, but would be ok to have.

- ZTE think not needed.

* No consensus to change anything

### 7.12.2 Stage-3

For multi-TS input, it is allowed to input also here.

#### 7.12.2.1 BAP

TS impacts 38340 and BAP Centric issues (can also cover secondary impacts to other TSes if applicable)

#### 7.12.2.2 Control plane corrections

TS impacts 38331, ASN.1 RIL, UE capabilities and 38.304

38304

[R2-2402936](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_125bis%5CDocs%5CR2-2402936.zip) Mismatch of terminology between 38.304 and 38.331 Samsung CR Rel-18 38.304 18.1.0 0398 - F NR\_mobile\_IAB-Core

- Ericsson think that suffixes should not be used outside RRC TS.

* Agreed in principle (check for next meeting whether the IE suffix need to be included)

RRC

[R2-2403168](file:///C%3A%5C%5CUsers%5C%5Cmtk65284%5C%5CDocuments%5C%5C3GPP%5C%5Ctsg_ran%5C%5CWG2_RL2%5C%5CTSGR2_125bis%5C%5CDocs%5C%5CR2-2403168.zip%22%20%5Co%20%22C%3AUsersmtk65284Documents3GPPtsg_ranWG2_RL2TSGR2_125bisDocsR2-2403168.zip) Miscellaneous corrections on Mobile IAB Ericsson CR Rel-18 38.331 18.1.0 4701 - F NR\_mobile\_IAB-Core Late

- No comments

* Post email approval, including agreed changes

[R2-2403169](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_125bis%5CDocs%5CR2-2403169.zip) RILs conclusions for MobileIAB Ericsson discussion Rel-18 NR\_mobile\_IAB-Core Late

PropAgree: H113

* Noted

[R2-2403170](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CTSGR2_125bis%5CDocs%5CR2-2403170.zip) Discussion on RILs conclusion MobileIAB Ericsson discussion Rel-18 NR\_mobile\_IAB-Core Late

Not treated, same contents as above

[R2-2402645](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2402645.zip) [H112, H113] Discussion on targetNTA and tci-StateID for mobile IAB Huawei, HiSilicon discussion Rel-18 NR\_mobile\_IAB-Core

P1

- Ericsson think it is good to keep optional so it is easy to extend, but also agrees that it is always provided, can be expressed in some other way, e.g. in the FD.

* The *targetNTA* indication in *RACH-LessHO* IE should be always provided, can discuss further how to capture this (in the CR discussion)

[R2-2403340](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403340.zip) [S266][S267] Correction on setting mobile IAB support for PLMNs and NPNs Samsung discussion Rel-18 NR\_mobile\_IAB-Core

* The following change is agreed: remove “in a cell” in two places.

[R2-2403447](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403447.zip) Clarification to mobile IAB-MT measurement configuration Nokia discussion Rel-18 NR\_mobile\_IAB-Core

- QC think this is just network impl description, and this is not really needed. Ericsson agrees with QC.

- ZTE think we could have a MT behaviour that measurements can be excluded by SIB4 contents.

* RAN2 confirms that this seems possible, by current lists in the measurement configuration, no consensus to cover anything additional in TS.

[R2-2403448](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403448.zip) Discussion on gNB-ID signalling Nokia discussion Rel-18 NR\_mobile\_IAB-Core

- Ericsson think this is already possible to provide the required info, no need to have additional methods. Samsung agrees.

- ZTE think read of SIB1 will not slow this down, the MT need to acquire this after migration completion.

* No support

[R2-2403575](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2403575.zip) Correction on frequency prioritization for mobile IAB ZTE, Sanechips discussion Rel-18 NR\_mobile\_IAB

- LGE think the current text is correct as is, as the UE should reselect to the other frequency if he can camp on the mobile IAB cell, but not otherwise.

* No support

#### 7.12.2.3 User plane corrections

TS impacts 38321