3GPP TSG-RAN WG2 Meeting #124 DRAFT R2-2313565

Chicago, USA, Nov. 13th – 17th, 2023

Title: Report from breakout session on feMob, mIAB, LP-WUS

Agenda: 8.4

Source: Session Chair (Mediatek), Johan

Schedule: See Main meeting schedule on the server (pl check for updates)

Offline number range: 500-599

Revisions: [R2-2313661](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313661.zip) - R2-2313680

# Offline Discussions

# Reference Documents

Note: Initial version of Agenda sections 7.0.1 and 7.0.3 are copied below into this document for reference, the document herein are treated in Main session.

### 7.0.1 UE Capabilites

Multi-WI handling of Rel-18 feature lists and UE capability Mega CRs.

[R2-2311717](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311717.zip) LS on Rel-18 RAN1 UE features list for NR after RAN1#114bis (R1-2310637; contact: NTT DOCOMO, AT&T) RAN1 LS in Rel-18 NR\_MIMO\_evo\_DL\_UL, NR\_pos\_enh2, Netw\_Energy\_NR, NR\_netcon\_repeater, NR\_NTN\_enh, NR\_Mob\_enh2, NR\_SL\_enh2, NR\_redcap\_enh, NR\_MC\_enh, NR\_XR\_enh, NR\_FR1\_lessthan\_5MHz\_BW, NR\_DSS\_enh, NR\_BWP\_wor, NR\_cov\_enh2, TEI18 To:RAN2 Cc:RAN4

[R2-2312126](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312126.zip) [DRAFT] Reply LS on Rel-18 RAN1 UE features list for NR after RAN1#114bis Lenovo LS out Rel-18 NR\_MIMO\_evo\_DL\_UL, NR\_pos\_enh2, Netw\_Energy\_NR, NR\_netcon\_repeater, NR\_NTN\_enh, NR\_Mob\_enh2, NR\_SL\_enh2, NR\_redcap\_enh, NR\_MC\_enh, NR\_XR\_enh, NR\_FR1\_lessthan\_5MHz\_BW, NR\_DSS\_enh, NR\_BWP\_wor, NR\_cov\_enh2, TEI18 To:RAN1 Cc:RAN4

[R2-2312144](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312144.zip) Running UE capability CR on 38.306 for Rel-18 R1 R4 feature lists Intel Corporation draftCR Rel-18 38.306 17.6.0 NR\_MIMO\_evo\_DL\_UL, NR\_netcon\_repeater, NR\_DSS\_enh, NR\_MC\_enh, NR\_FR1\_lessthan\_5MHz\_BW, NR\_BWP\_wor, NR\_redcap\_enh, NR\_XR\_enh, TEI18

[R2-2312145](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312145.zip) Running UE capability CR on 38.331 for Rel-18 R1 R4 feature lists Intel Corporation draftCR Rel-18 38.331 17.6.0 NR\_MIMO\_evo\_DL\_UL, NR\_netcon\_repeater, NR\_DSS\_enh, NR\_MC\_enh, NR\_FR1\_lessthan\_5MHz\_BW, NR\_BWP\_wor, NR\_redcap\_enh, NR\_XR\_enh, TEI18

[R2-2312150](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312150.zip) Rel-18 UE capability handling Intel Corporation discussion Rel-18 NR\_MIMO\_evo\_DL\_UL, NR\_netcon\_repeater, NR\_DSS\_enh, NR\_MC\_enh, NR\_FR1\_lessthan\_5MHz\_BW, NR\_BWP\_wor, NR\_redcap\_enh, NR\_XR\_enh, TEI18

=> Revised in [R2-2313581](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313581.zip)

[R2-2313581](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313581.zip) Rel-18 UE capability handling Intel Corporation discussion Rel-18 NR\_MIMO\_evo\_DL\_UL, NR\_netcon\_repeater, NR\_DSS\_enh, NR\_MC\_enh, NR\_FR1\_lessthan\_5MHz\_BW, NR\_BWP\_wor, NR\_redcap\_enh, NR\_XR\_enh, TEI18

[R2-2312972](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312972.zip) Interpretation of UE capability guidelines Ericsson discussion

### 7.0.3 Other

[R2-2311706](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311706.zip) LS on Rel-18 higher-layers parameter list (R1-2308674; contact: Ericsson) RAN1 LS in Rel-18 NR\_MC\_enh-Core, NR\_MIMO\_evo\_DL\_UL-Core, NR\_pos\_enh2-Core, Netw\_Energy\_NR, NR\_cov\_enh2, NR\_XR\_enh-Core, NR\_Mob\_enh2, NR\_BWP\_wor-Core, NR\_NTN\_enh, IoT\_NTN\_enh-Core, TEI18 To:RAN2, RAN3 Cc:RAN4

R2-2311721 LS on Rel-18 higher-layers parameter list (R1-2310694; contact: Ericsson) RAN1 LS in Rel-18 NR\_MC\_enh-Core, NR\_MIMO\_evo\_DL\_UL-Core, NR\_SL\_enh2-Core, NR\_pos\_enh2-Core, Netw\_Energy\_NR-Core, NR\_cov\_enh2-Core, NR\_XR\_enh-Core, NR\_Mob\_enh2-Core, NR\_NTN\_enh-Core, IoT\_NTN\_enh-Core To:RAN2, RAN3 Cc:RAN4

R2-2313023 Rel-18 ASN.1 review Ericsson discussion Rel-18 TEI18 Late

## 7.4 Further NR mobility enhancements

(NR\_Mob\_enh2-Core; leading WG: RAN2; REL-18; WID: [RP-223520](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_98e/Docs/RP-223520.zip))

Time budget: 2 TU

Tdoc Limitation: 6 tdocs .

Running CR rapporteurs are encouraged to actively drive CR progress (can e.g. suggest to chair how to treat).

### 7.4.1 Organizational Stage-2 and UE caps

Including LSs and any rapporteur inputs (e.g. work plan, Running CRs common for the sub-objectives). Including performance impacts, e.g. for LTM and potential elaboration on the components of the LTM latency time line, if needed. Including impacts to and expectations of other groups.

Including impacts to 38300 and 37340 and related stage-2 centric open issues.

Including outcome of [Post123bis][557][feMob] 37340 CR (ZTE)

Including RAN1, RAN2, and RAN4 features corresponding UE caps (impact to 38306 and corresponding signalling 38331) and related open issues.

Including outcome of [Post123bis][564][feMob] UE capabilites (Intel)

Including other issues, if any

Focus this meeting on closing open issues and getting the CRs in good shape.

LS in

[R2-2311742](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311742.zip) Reply LS on beam application time for LTM (R4-2317331; contact: Ericsson) RAN4 LS in Rel-18 NR\_Mob\_enh2-Core To:RAN1, RAN2 Cc:RAN3

* Noted

38300

[R2-2312720](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312720.zip) 38.300 running CR for introduction of NR further mobility enhancements MediaTek Inc., vivo draftCR Rel-18 38.300 17.6.0 B NR\_Mob\_enh2-Core

37340

[R2-2312236](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312236.zip) Stage-2 TP for SCG LTM procedure ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312235](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312235.zip) 37.340 running CR for introduction of NR further mobility enhancements ZTE Corporation, Sanechips draftCR Rel-18 37.340 17.6.0 B NR\_Mob\_enh2-Core

38331

[R2-2312986](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312986.zip) Open issues and resolution proposals on the RRC merging issues Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

P2

- CATT think plural S need to be added. Ericsson think this violates ASN1 conventions.

P5

- CATT think this causes some issue. Ericsson think CATTs endorsed CR was based on the wrong TS version.

P6

- OPPO think this need further discussoion

* P2 P3 P4 P5 P6 discussed separately
* P1 P7 agreed

[R2-2312985](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312985.zip) Introduction of further NR mobility enhancements Ericsson, OPPO, CATT CR Rel-18 38.331 17.6.0 4458 - B NR\_Mob\_enh2-Core

* Endorsed (with the comments and status above) as starting point for this meeting.

[R2-2312987](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312987.zip) RRC open issues list Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

- Session chair think we should address these to as great extent as possible this meeting.

* CB, way forward, friday

UE capabilities

[R2-2312153](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312153.zip) Discussion and TP on L2/3 UE capabilities for NR further mobility enhancements Intel Corporation discussion Rel-18 NR\_Mob\_enh2-Core

=> revised in [R2-2313590](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313590.zip)

[R2-2313590](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313590.zip) Discussion and TP on L2/3 UE capabilities for NR further mobility enhancements Intel Corporation discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312504](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312504.zip) UE Capability for LTM MediaTek Inc. discussion Rel-18 NR\_Mob\_enh2

[R2-2313363](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313363.zip) On UE Capabilities for LTM Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312151](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312151.zip) 38.306 running draftCR for introduction of NR further mobility enhancements Intel Corporation draftCR Rel-18 38.306 17.6.0 NR\_Mob\_enh2-Core

[R2-2312152](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312152.zip) 38.331 running draftCR for introduction of NR further mobility enhancements Intel Corporation draftCR Rel-18 38.331 17.6.0 NR\_Mob\_enh2-Core

### 7.4.2 L1L2 Triggered Mobility

#### 7.4.2.1 Control Plane and RRC

(WID: Configuration and maintenance for multiple candidate cells to allow fast application of configurations for candidate cells [RAN2, RAN3]).
General LTM discussions (incl all aspects), if needed. RRC impact and solutions, stage-3 oriented: companies are encouraged to illustrate proposals by Text Proposals. Including the RRC LTM running CR 38331 and related open issues.

Including
1) R2 centric issues : LTM config and execution (candidate + ref, applying complete config) etc
2) R1-centric issues: e.g. reflecting RRC parameters (CSI, TCI, TA) from RAN1, and decision on the two options on CSI report provided by RAN1.

Including the LTM RRC Running CR. Focus this meeting on closing open issues and getting the CRs in good shape.

Key Stream Reuse at recovery

[R2-2313310](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313310.zip) Keystream reuse issue caused by fast recovery after LTM cell switch Fujitsu, CATT discussion Rel-18 NR\_Mob\_enh2-Core

General

UE release of LTM config at LTM fast Recovery and or Reestablishment (Eri and others ..)

s-Measure applicability (Eri)

Which messages may carry LTM config (Eri, CATT, LGE, . )

Basic Assumption UE based TA config (Eri, Samsung, CMCC ..)

Assumptions for EarlyUL-SyncConfig-r18 (Huawei, Eri, CATT ..)

T304 timer (Lenovo, Eri, QC, .. )

Delta legacy-based Reconfiguration at LTM swtch (Huawei)

L2 behaviout (Huwei)

Common range for candidate identifiers (samsung)

Support of Radio bearer release/add upon LTM cell switch (Fujitsu)

UE may receive mrdc-SecondaryCellGroupConfig set as release even when there is no SCG, for a subsequent LTM and it is not considered as an error. (samsung)

[R2-2312988](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312988.zip) Discussion of remaining RRC open issues for LTM Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

DISCUSSION

P1

- CATT think that after LTM recovery LTM can still function. Nokia also think that recovery is not same as reestablishment and we can keep the configuration.

- Ericsson think there may be strange scenarios, e.g. the UE is LTM-switched to a cell that was just recently failed. Huawei think the CU is aware of all such situation and can take action if needed.

- Ericsson think that is we agree to not clear config at recovery then we should also keep the configuration at resume.

P2

- IDT wonder if we don’t allow relaxation at all

- HW think s-measure is not applied to L1 measurements today.

P3

- CATT think this impact RRC resume failure, esp for inter-node.

- Lenovo are not sure this is important, may be the most freq case is small data.

- MTK think that this can be made possible from signalling po view.

P4

- Apple think we should instead discuss when the UE triggers the measurement, which could be left for UE imlm.

- ZTE think TAT may be needed, and can expire during the switch

- CATT think we can simplify the wording.

- FW explains how it is intended to work ..

* UE keeps the LTM configuration as result of the LTM recovery
* s-Measure does not apply to L1 LTM related measurements (in this release)
* Assume that the RRCResume message does not need to setup LTM-related configurations (could be revisited during maintenance if justified)
* The UE performs TA measurements for candidate cell(s) after configured by RRC
* R2 assumes that the exact time the UE performs TA measurement is up to UE impl (no need to specify in R2 TS)

[R2-2312544](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312544.zip) Issues with Timer T304 handling (including TP) Lenovo discussion NR\_Mob\_enh2-Core

[R2-2313520](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313520.zip) RRC aspects for LTM Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312916](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312916.zip) Discussion on RRC aspects of LTM Samsung discussion

[R2-2313311](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313311.zip) Radio bearer release/add upon LTM cell switch procedure Fujitsu discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312042](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312042.zip) Discussion on RRC aspects for LTM CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312420](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312420.zip) Discussion on RRC open issues LG Electronics discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312679](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312679.zip) Considerations on LTM open issues CMCC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2313167](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313167.zip) RRC open issues for LTM Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312214](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312214.zip) RRC-related LTM procedures Qualcomm Incorporated discussion

[R2-2312501](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312501.zip) Remaining issues for RRC Aspects of LTM Sharp discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2313521](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313521.zip) LTM UE capabilities, LTM cross-WI combinations and EMR scope Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

TCI state

[R2-2312505](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312505.zip) TCI State Handling in LTM MediaTek Inc. discussion Rel-18 NR\_Mob\_enh2

RRC configuration of L2 reset

[R2-2312213](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312213.zip) RRC configuration aspects for LTM Qualcomm Incorporated discussion

[R2-2313384](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313384.zip) Remaining issues of RRC configured Layer-2 reset Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core R2-2310579

UE-based TA

[R2-2312480](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312480.zip) Discussion on UE measured TA ID and No reset ID Lenovo discussion Rel-18

[R2-2312131](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312131.zip) Configuration of UE based TA determination for RACH-less LTM Futurewei discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312357](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312357.zip) RSTD based early TA acquisition Apple discussion Rel-18 NR\_Mob\_enh2-Core

NR-DC and SCG LTM

SCG LTM Completion (FFS in the absence of SRB3), MAC CE (RACH-less LTM completion?) or mandate SRB3

Scenario Clarifications:

- Do not support LTM for simultaneous PCell and PSCell change in Rel 18 (Nok)

- As baseline, the SCG LTM is supported unless any MN terminated SCG or split bearers are configured.Further discuss whether to support the intra-DU LTM without L2 reset, even if MN terminated SCG or split bearers are configured, as the special case of SCG LTM in Rel-18 (NEC)

Bearer Handlling for DC (vivo)

LTM Configuration Release: UE releases SCG LTM configs, when SCG is released (or/and at SCG failure?)

UE Stops measurement reporting immediately upon MCG failure / SCG Failure respectively (Samsung)

MN allocates measurement gaps for the L1 measurements configured for LTM, for MN and SN (samsung)

Info in SCG Failure info, LTM failure ind (Lenovo, NEC, ...)

MCG SCG ambiguity (Asus)

[R2-2311818](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311818.zip) Remaining issues for SCG LTM NEC discussion NR\_Mob\_enh2-Core

[R2-2312358](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312358.zip) LTM procedure completion at the UE in SCG Apple discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312481](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312481.zip) Analysis on SCG LTM Lenovo discussion Rel-18

[R2-2312491](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312491.zip) Discussion on SCG LTM OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2313187](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313187.zip) Discussion on LTM candidate configuration for different CGs ASUSTeK discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2313365](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313365.zip) RRC Aspects of LTM with Dual Connectivity Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2311899](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311899.zip) Discussion on RRC open issues for LTM vivo discussion Rel-18 NR\_Mob\_enh2-Core

Feature and procedure coexistence

LTM and Condiional reconfiguration (ZTE, Samsung)

LTM and CHO fast recovery race condition (e.g. Docomo)

LTM and SCPAC (e.g OPPO)

LTM and DAPS – anything needed (e.g. OPPO, Samsung)

L3 handover with LTM config (Fujitsu)

LTM and NR-U MIMO CovEnh MBS IAB UAV SL NTN (Fujitsu, CMCC, Samsung, HW, Xiaomi ..)

[R2-2312237](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312237.zip) Remaining issues on LTM RRC ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312373](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312373.zip) Consideration on co-existence of LTM and CHO Samsung discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312223](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312223.zip) Discussion on co-existence of LTM and CHO fast recovery NTT DOCOMO, INC. discussion Rel-18

[R2-2312493](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312493.zip) Discussion on cross-feature issues for LTM OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2313312](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313312.zip) L3 handover with LTM configuration Fujitsu discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312000](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312000.zip) Co-existence between LTM and other features Fujitsu discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312989](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312989.zip) Co-existence of LTM with other mobility features Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312875](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312875.zip) Coexistence of LTM and L3M/CHO Interdigital, Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2313048](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313048.zip) On RRC Aspects of LTM and L3 Mobility Interworking Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

Measurements R3 and R4 aspects

[R2-2312680](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312680.zip) Discussions on LTM related measurements CMCC discussion Rel-18 NR\_Mob\_enh2-Core

Fast Recovery Further Enhancements

[R2-2311819](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311819.zip) Failure Handling for LTM NEC discussion NR\_Mob\_enh2-Core

[R2-2311890](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311890.zip) Fast cell recovery aspects for LTM failures Panasonic discussion Rel-18

[R2-2312404](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312404.zip) Views on RACH-less fast recovery KDDI Corporation discussion NR\_Mob\_enh2-Core R2-2309713

[R2-2312876](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312876.zip) Fast RLF for LTM execution Interdigital, Inc. discussion Rel-18 NR\_Mob\_enh2-Core

Withdrawn

R2-2311935 Discussion on co-existence of LTM and CHO fast recovery NTT DOCOMO, INC. discussion Rel-18 Withdrawn

#### 7.4.2.2 L2 centric parts

General LTM discussions (incl all aspects) where the main issue/discussion point is L2 centric, if not better covered by previous . Including L2 and MAC impacts (Stage-3 oriented) and remaning issues for dynamic cell switch not addressed by subclause above.

Including the MAC Running CR. Focus this meeting on closing open issues and getting the CR in good shape.

MAC CR

[R2-2312410](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312410.zip) Introduction of NR further mobility enhancements in TS 38.321 Huawei, HiSilicon CR Rel-18 38.321 17.6.0 1705 - B NR\_Mob\_enh2-Core R2-2311595

General

[R2-2312411](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312411.zip) Rapporteur proposals to address open issues in MAC running CR Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

=> Revised in [R2-2313558](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313558.zip)

[R2-2313558](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313558.zip) Rapporteur proposals to address open issues in MAC running CR Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312212](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312212.zip) MAC aspects of LTM Qualcomm Incorporated discussion

[R2-2311902](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311902.zip) Discussion on L2 centric open issue for LTM vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2311826](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311826.zip) Cell Switching - CFRA,TA and RACH-less LTM completion Aspects Samsung Electronics Co., Ltd discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312990](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312990.zip) Remaining MAC issues Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2313188](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313188.zip) Discussion on fallback RACH for L1L2-triggered mobility ASUSTeK discussion Rel-18 NR\_Mob\_enh2-Core R2-2309881

[R2-2312782](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312782.zip) Further Discussion on L2 Centric Part of LTM ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2313047](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313047.zip) Discussion on MAC open issues to support LTM LG Electronics Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2311937](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311937.zip) Discussion on L2 Centric Parts CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312502](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312502.zip) Remaining issues for L2 centric parts of LTM Sharp discussion Rel-18 NR\_Mob\_enh2-Core

DRX and gaps

[R2-2312393](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312393.zip) DRX and measurement gap impact for PDCCH monitoring of RACH-less LTM NEC discussion Rel-18 NR\_Mob\_enh2-Core

TCI state

[R2-2312031](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312031.zip) Remaining issues on candidate cell TCI state activation Panasonic discussion

[R2-2312412](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312412.zip) TCI state in LTM cell switch MAC CE used in RACH Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312490](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312490.zip) Discussion on TCI state related issues OPPO discussion Rel-18 NR\_Mob\_enh2-Core

RACH less TA early synch

[R2-2311898](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311898.zip) Discussion on early TA acquisition vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2313489](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313489.zip) On Cell Switch and TA Acquisition Aspects Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2313189](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313189.zip) Discussion on LTM Cell Switch Command MAC CE format ASUSTeK discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2313522](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313522.zip) RACH-less LTM cell switch Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2311827](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311827.zip) Early Timing Advance Management – LBT Failure Handling Samsung Electronics Co., Ltd discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312492](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312492.zip) Discussion on early sync and RACH-less LTM OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312001](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312001.zip) RAN2 aspects of RACH-based early TA acquisition Fujitsu discussion Rel-18 NR\_Mob\_enh2-Core

UE based TA

[R2-2312877](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312877.zip) UE based TA determination configuration Interdigital, Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312629](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312629.zip) Discussion on UE based TA measurement Transsion Holdings discussion Rel-18

[R2-2312132](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312132.zip) Remaining MAC issues for UE based RACH-less LTM Futurewei discussion Rel-18 NR\_Mob\_enh2-Core

CG

[R2-2312628](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312628.zip) Handling of configured grant for LTM cell switch Transsion Holdings discussion Rel-18

[R2-2313385](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313385.zip) Remaining issues of RACH-less solution Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312002](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312002.zip) LTM cell switch execution and completion Fujitsu discussion Rel-18 NR\_Mob\_enh2-Core

MAC CE Security

[R2-2311900](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311900.zip) Security issues for LTM cell switch command vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312421](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312421.zip) Discussion on SCG LTM and other LG Electronics discussion Rel-18 NR\_Mob\_enh2-Core

Withdrawn

[R2-2313364](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313364.zip) On Cell Switch and TA Acquisition Aspects Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core Withdrawn

### 7.4.3 Subsequent CPAC

Formerly called “NR-DC with selective activation cell of groups”.

Focus this meeting on closing open issues and getting the CR in good shape.

* [AT124][502][feMob] Subsequent CPAC RRC Open Issues (OPPO)

 Scope: Take progress and input to this meeting into account, excluding security
1) Identify remaining open issues / enhancements, addressing necessary functionality and stage-3 aspects (e.g. how to impl, clarity, simplicity, commonality etc). No new proposals for functionality or further enhanced performance. Take into account relevant Open issues in the RRC CR OI list, if any.

 2) Converge on solutions/proposals, identify easy agreements and discussion points for CB.

 3) Case by case, if it seems needed, TP can be discussed.

 4) in particular, Produce a TP for the SCPAC configuration application procedure

 Intended outcome: Report in R2-2313664

 Deadline: CB acc to Meeting schedule

* [AT124][504][feMob] SCPAC Security (Nokia)

 Scope: Converge on open issues

 Intended outcome: Report in R2-2313665

 Deadline: CB acc to Meeting schedule

LS in

[R2-2313596](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313596.zip) Reply LS on Security Solution for Selective SCG (S3-235051; contact: Nokia)

- Nokia think RRC reconfig is sufficient for key mgmt.

* Noted

37.340 open issues

[R2-2312711](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312711.zip) Discussion on open issues for subsequent CPAC procedure ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

DISCUSSION

General

P1

- OPPO wonder whether we really need to differentiate cell type (prepared or not)

P2

- QC wonder how this work, does it depend on certain sequence, so the SN can be aware .. Are there cases when SN is not aware of MN situation.

- vivo agrees w QC

P3

- Think there are other alternative and think it can be up to R3.

- Vivo this should be discussed in R2.

* Offline discussion
* [AT124][503][feMob] Stage-2 SCPAC (ZTE)

 Scope:

 Intended outcome: Agreeable proposals if possible, options for decisions otherwise, evolved TP, Report in R2-2313666 Draft LS to R3 in R2-2313667

 Deadline: CB acc to Meeting schedule

RRC open issues

[R2-2312494](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312494.zip) Discussion on the open issues for subsequent CPAC OPPO discussion Rel-18 NR\_Mob\_enh2-Core

P8

- OPPO clarifies that the intention is to clarify that this is a complete configuration, handled similarly as at LTM cell switch.

- HW wonder if this is a new procedure

- Ericsson think a separate procedure similar to LTM would be the best ..

- LGE are ok with this proposal.

- CATT think P8 P9 need to be postponed for more thinking.

- Nokia indeed think a separate procedure is n eeded as there are differences to the case handled by LTM currently.

* The granularity to update the sk-counter configuration is per sk-counter list that is associated with a cell set ID.
* Rely on NW to guarantee the validity of servingSecurityCellSetID after normal PSCell change, i.e. NW update the sourceSecurityCellSetID if the SecurityCellSetID of target PScell is different.
* UE releases the stored sk-counter configuration and the entries within VarServingSecurityCellSetID if all SCPAC configurations are released.
* UE stops evaluating the subsequent CPC execution conditions upon MCG failure and SCG failure.
* UE maintains the subsequent CPAC configurations upon MCG failure and SCG failure and relies on explicit signalling to release.
* Follow LTM on SCPAC candidate cell configuration application.
* Assume that Common procedure is used for SCPAC execution for the candidate provided as MN format and SN format

[R2-2313523](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313523.zip) Subsequent CPAC Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

- Alternative to OPPO-P8: HW think LTM procedure is not ready, and think we should conclude now. Suggest we use the legacy reconfiguration procedure, and not use a reference configuration at all.

*- Session Chair: Id agree with HW on complexity etc, but there is not much support.*

* Noted

[R2-2313168](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313168.zip) Remaining issues for subsequent CPAC Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312238](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312238.zip) Discussion on RRC centric open issues for subsequent CPAC ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312830](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312830.zip) Discussion on subsequent CPAC Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2311901](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311901.zip) Remaining issues for subsequent CPAC vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2311938](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311938.zip) Discussion on subsequent CPAC CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312202](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312202.zip) Subsequent CPAC in NR-DC Qualcomm Incorporated discussion Rel-18

[R2-2311932](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311932.zip) Discussion on remaining issues of subsequent CPAC Samsung R&D Institute UK discussion

[R2-2312170](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312170.zip) Further details of subsequent CPAC configurations NEC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312859](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312859.zip) On remaining issues for SCPAC Nokia, Nokia Shanghai Bell discussion

[R2-2313066](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313066.zip) Stage 3 issues for Subsequent CPAC LG Electronics discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312483](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312483.zip) Left issues on subsequent CPAC Lenovo discussion Rel-18

[R2-2312777](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312777.zip) Remaining issues on subsequent CPAC InterDigital Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312513](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312513.zip) Discussion on NR-DC with subsequent CPAC. DENSO CORPORATION discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312548](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312548.zip) Discussion on SCG failure handling with subsequent CPAC ITRI discussion NR\_Mob\_enh2-Core R2-2307890

[R2-2312171](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312171.zip) Remaining issues on security handling in SCPAC NEC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312394](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312394.zip) Remaining issue of subsequent CPAC NEC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312398](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312398.zip) Remaining Issues for Subsequent CPAC FGI discussion

[R2-2312630](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312630.zip) Discussion on Selective Activation of Cell Groups in NR-DC Transsion Holdings discussion Rel-18

[R2-2312274](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312274.zip) discussion on subsequent CPAC Sharp discussion NR\_Mob\_enh2-Core

### 7.4.4 CHO including target MCG and candidate SCGs for CPC CPA in NR-DC

Focus this meeting on closing open issues and getting the CR in good shape.

[R2-2311939](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311939.zip) Rapporteur proposals to open issues on CHO with candidate SCGs CATT, Huawei, HiSilicon, MediaTek, OPPO, ZTE Corporation, Sanechips, Fujitsu, vivo, Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2311988](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311988.zip) Draft LS on RAN2 progress on CHO with candidate SCGs CATT LS out Rel-18 NR\_Mob\_enh2-Core To:RAN3

[R2-2313169](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313169.zip) Remaining issues for CHO with candidate SCG(s) Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312201](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312201.zip) CHO with multiple candidate SCGs Qualcomm Incorporated discussion Rel-18

[R2-2312239](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312239.zip) Remaining issues on CHO with candidate SCG(s) ZTE Corporation, Sanechips discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312736](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312736.zip) Considerations on CHO with CPA/CPC Samsung discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312831](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312831.zip) CHO with associated CPC or CPA Ericsson discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312413](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312413.zip) Discussion on CHO with candidate SCG(s) Huawei, HiSilicon discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312482](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312482.zip) Discussion on CHO with candidate SCG Lenovo discussion Rel-18

[R2-2313049](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313049.zip) On how to address open issues for CHO with CPAC in Rel-18 Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312681](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312681.zip) Discussion on CHO with candidate SCGs CMCC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2311986](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311986.zip) Discussions on CHO with candidate SCGs KDDI Corporation discussion

[R2-2313067](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313067.zip) CHO with candidate SCG LG Electronics discussion Rel-18 NR\_Mob\_enh2-Core R2-2311097

[R2-2312931](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312931.zip) Remaining issues on CHO with candidate SCG InterDigital Inc. discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312399](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312399.zip) Remaining Issues for CHO including target MCG and candidate SCGs FGI discussion

### 7.4.5 Others

Including contributions on improvement to SCell/SCG setup delay

Including outcome of [Post123bis][551][feMob] eEMR SCell setup delay (Nokia)

* [AT124][501][feMob] eEMR SCell setup delay (Nokia)

 Scope: CR solution for “enahanced measurement”.

 Intended outcome: Report, a reasonably agreeable draftCR, for CB in R2-2313662 and R2-2313663

 Deadline: CB Friday

LS in

[R2-2311749](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311749.zip) LS on improvement on FR2 SCell/SCG setup delay (R4-2317428; contact: Nokia) RAN4 LS in Rel-18 NR\_Mob\_enh2 To:RAN2y

- To be taken into account for the “enhanced measurements”.

* Noted

E-Mail discussion

[R2-2313494](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313494.zip) Email Discussion report on [Post123bis][551][feMob] eEMR SCell setup delay (Nokia) Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

* noted

“Enhanced measurements”.

- Nokia assumes these are the same as R16 EMR with added verification, i.e. we see these are enhancement on top of R16.

- LG think measurement reporting is one feature, and additional measurement is another feature.

- MTK Think that the two features are R16 EMR with added verification and then the “additional measurements”

- Ericsson think the terminology is confusing that the “additional measurements” should be called “measurements at setup”. Nokia think the measurement can continue beyond setup. QC agrees.

- vivo think the X value, this kind of enhancement is only for the Enhanced R16 EMR.

- Session Chair proposes to agree: “Enhanced measurements” = R16 EMR + verification acc to R4 LS. LGE has a different opinion.

* R2 understanding, from functionality point of view: “Enhanced measurements” = R16 EMR + verification acc to R4 LS.
* We attempt to make a CR with solution (offline).

Additional measurements

P1-P13

- Ericsson think the timer is used for EMR to decide if the UE uses dedicated or common configuration.

- Nokia think the measurements doesn’t start until connection setup so not useful with a timer.

- HW think R4 hasn’t agreed on the additional measurements. Think this will take some time to converge.

P5

- HW think the word should be “simultaneously”. CATT agrees

- ZTE think this was not discussed in R4 and R4 are still discussing multipe solutions.

P7

- CATT think It is not reasonable to assume reporting in the XXcomplete msg.

P11

- QC wonder if the threshold is for reporting or for performing measurements, if for performing measurements not clear how this works.

*Session Chair: given the comments, conclude that even if R4 decides to include this at current meeting, then R2 anyway need at least 1Q to work on the detailed solution.*

* R2 will not attempt to make CR now for the “additional measurements”.
* CB check R4 status later this week, to determine way forward.

General

[R2-2313495](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313495.zip) eEMR SCell setup delay Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2313407](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313407.zip) Discussion on eEMR SCell setup delay vivo discussion NR\_Mob\_enh2-Core

[R2-2313307](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313307.zip) Early measurement report enhancement LG Electronics discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312832](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312832.zip) Discussion on early measurements enhancements Ericsson, CMCC discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2313410](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313410.zip) Discussion on SCell/SCG setup delay MediaTek Inc. discussion NR\_Mob\_enh2-Core R2-2311113

[R2-2312495](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312495.zip) Discussion on improvement to SCell/SCG setup delay OPPO discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2311940](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311940.zip) Discussion on improvement on Scell SCG setup delay CATT discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2313170](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313170.zip) Discussion on improvement to SCell/SCG setup delay Xiaomi discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312682](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312682.zip) Discussion on fast SCell/SCG setup CMCC, Ericsson, ZTE, Huawei, vivo discussion Rel-18 NR\_Mob\_enh2-Core

[R2-2312874](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312874.zip) Improvement on Scell/SCG setup/resume delay using LTM Interdigital, Inc. 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-232642)

Time budget: 0.5 TU

Tdoc Limitation: 4 tdocs

### 7.12.1 Organizational Stage-2 and high-level open issues

Ls in Rapporteur input, CRs etc. Connected mode mobility enhancements: On new (not-yet-agreed) proposals, there has previously been some interest for time-based CHO (which can be discussed one more round). Other new (not-yet-agreed) proposals, are not expected to be treated.

Note that on PCI collision, RAN2 agreed that further work on this matter would be based on LS by RAN3. Note that on RACH interference and collisions RAN2 agreed that this better be handled between RAN3 and RAN1.

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

LS in

[R2-2311732](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311732.zip) LS on awareness of gNB ID of RRC terminating donor for mobile IAB (R3-235919; contact: Huawei) RAN3 LS in Rel-18 NR\_mobile\_IAB-Core To:RAN2

[R2-2312369](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312369.zip) Confirmation on the gNB-ID-Length broadcasting from RAN3 incoming LS Huawei, HiSilicon discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2313393](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313393.zip) Discussion on supporting the gNB-ID-Length for mIAB-MT Xiaomi discussion Rel-18 NR\_mobile\_IAB-Core

Work Plan

[R2-2312165](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312165.zip) Updated workplan for Rel-18 mobile IAB Qualcomm Inc. (Rapporteur) Work Plan Rel-18 NR\_mobile\_IAB

CRs

38300

[R2-2312166](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312166.zip) CR to TS 38.300 on introduction of mobile IAB Qualcomm Inc. CR Rel-18 38.300 17.6.0 0727 - B NR\_mobile\_IAB

=> Revised in [R2-2313551](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313551.zip)

[R2-2313551](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313551.zip) CR to TS 38.300 on introduction of mobile IAB Qualcomm Inc. CR Rel-18 38.300 17.6.0 0727 1 B NR\_mobile\_IAB

38331

[R2-2312979](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312979.zip) Introduction of mobile IAB Ericsson CR Rel-18 38.331 17.6.0 4457 - B NR\_mobile\_IAB-Core

[R2-2312980](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312980.zip) Rapporteur resolution proposals for mIAB RRC open issues Ericsson discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2312981](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312981.zip) RRC open issues list for mobile IAB Ericsson discussion Rel-18 NR\_mobile\_IAB-Core

38304

[R2-2313037](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313037.zip) mobile IAB open issues of TS 38.304 Intel Corporation discussion Rel-18 NR\_mobile\_IAB

UE Caps

[R2-2313196](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313196.zip) Introduction of mobile IAB capabilities to TS 38.306 Nokia, Nokia Shanghai Bell CR Rel-18 38.306 17.6.0 1001 - B NR\_mobile\_IAB-Core

[R2-2313197](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313197.zip) Introduction of mobile IAB capabilities to TS 38.331 Nokia, Nokia Shanghai Bell CR Rel-18 38.331 17.6.0 4476 - B NR\_mobile\_IAB-Core

38321 – Submitted in AI 7.7.1, shown here for information.

[R2-2313014](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313014.zip) Introduction of RACH-less handover to TS 38.321 InterDigital, Samsung CR Rel-18 38.321 17.6.0 1716 - B NR\_NTN\_enh-Core, NR\_mobile\_IAB-Core R2-2309345 Late

mIAB or IAB operation

[R2-2313661](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313661.zip) Summary on concurrent support of mobile IAB and Rel-16/17 IAB Qualcomm Inc (WI Rapporteur)

[R2-2312368](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312368.zip) Overview on mobile IAB-node and legacy IAB-node: (m)IAB-support indication, Msg5 and UE capability Huawei, HiSilicon discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2312810](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312810.zip) Mobile IAB node vs IAB node: remaining issues Samsung R&D Institute UK discussion

[R2-2312812](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312812.zip) Draft LS to SA2 on MBSR and IAB Samsung R&D Institute UK LS out To:SA2 Cc:RAN3

[R2-2313256](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313256.zip) On general issues about mobile IAB-node CATT discussion Rel-18 NR\_mobile\_IAB

[R2-2312855](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312855.zip) Remaining issues on IAB-MT access procedure Kyocera discussion Rel-18 R2-2311067

Dual Connectivity

[R2-2312167](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312167.zip) Remaining Stage-2 issues for mIAB Qualcomm Inc. discussion Rel-18 NR\_mobile\_IAB

CHO with CondT1

[R2-2313284](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313284.zip) Time-based CHO enhancement for Mobile IAB AT&T discussion

[R2-2312422](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312422.zip) Discussion on CHO for mobile IAB ZTE, Sanechips discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2312321](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312321.zip) Remaining issues on CHO in mobile IAB Apple discussion Rel-18 NR\_mobile\_IAB-Core

Measurement Config further enhancement

[R2-2313198](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313198.zip) Remaining connected mode issues for mobile IAB Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_mobile\_IAB-Core

OnBoard Status indication further enhancement

[R2-2312467](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312467.zip) Remaining issues for mobility enhancements of mobile IAB-node Lenovo discussion Rel-18

[R2-2312983](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312983.zip) Support of UE on-board indication to the network Ericsson discussion Rel-18 NR\_mobile\_IAB-Core

### 7.12.2 Stage-3

Note that reuse of NR NTN RACH-less handover is assumed. Modifications of or difference in procedure specifically for mIAB to be determined/elaborated, with mIAB-specifics only when/if there is a need.

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

#### 7.12.2.1 BAP

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

R2-2312365 Rapporteur proposal for BAP open issue in mobile IAB Huawei, HiSilicon, LG Electronics Inc, Nokia, Nokia Shanghai Bell, Intel Corporation, Lenovo, ZTE Corporation, Sanechips, Fujitsu, Ericsson, NEC, Kyocera, vivo discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2312364](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312364.zip) Introduction of mobile IAB in TS 38.340 Huawei, HiSilicon CR Rel-18 38.340 17.5.0 0033 - B NR\_mobile\_IAB-Core

#### 7.12.2.2 RRC

Except UE caps

TS impacts 38331 and RRC Centric Open issues (can also cover secondary impacts to other TSes if applicable)

RACH less RRC

[R2-2312512](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312512.zip) Remaining issues of mobility enhancements for mobile IAB NEC Corporation discussion Rel-18 NR\_mobile\_IAB-Core

#### 7.12.2.3 MAC

TS impacts 38321 and MAC Centric Open issues (can also cover secondary impacts to other TSes if applicable). NOTE that MAC impact is assumed only for RACH-less handover. Including outcome of [Post123bis][559][mIAB] MAC CR (Samsung)

R2-2312809 Report from [Post123bis][559][mIAB] MAC CR (Samsung) Samsung R&D Institute UK report

[R2-2312367](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312367.zip) Differences between the RACH-less solution for mobile IAB and NTN Huawei, HiSilicon discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2313306](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313306.zip) RACH-less HO and Time-based CHO LG Electronics discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2312468](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312468.zip) Discussion on RACH-less handover for mobile IAB Lenovo discussion Rel-18

[R2-2312168](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312168.zip) Remaining issues for RACH-less handover for mobile IAB Qualcomm Inc. discussion Rel-18 NR\_mobile\_IAB

[R2-2312322](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312322.zip) Remaining issues on RACH-less HO in mobile IAB Apple discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2312424](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312424.zip) Discussion on remaining issues of RACH-less HO ZTE, Sanechips discussion Rel-18 NR\_mobile\_IAB-Core

#### 7.12.2.4 Idle Inactive mode

TS impacts to 38304 and Idle/Inactive mode centric open issues (can also cover secondary impacts to other TSes if applicable).

mIAB or IAB operation

[R2-2312148](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312148.zip) Mobile IAB general aspects and cell barring Intel Corporation discussion Rel-18 NR\_mobile\_IAB

SIB4 info (and SIB1)

[R2-2313036](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313036.zip) UE cell (re)selection and TP to TS38.304 Intel Corporation, Huawei, HiSilicon, Ericsson, AT&T discussion Rel-18 NR\_mobile\_IAB

[R2-2313255](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313255.zip) Cell reselection and assistance information on mobile IAB cells CATT, Nokia, Nokia Shanghai Bell, Apple, Canon other Rel-18 NR\_mobile\_IAB

[R2-2312191](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312191.zip) UE cell (re)selection in mobile IAB Samsung R&D Institute UK discussion

[R2-2312169](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312169.zip) Remaining issues for inter-frequency cell reselection of mIAB Qualcomm Inc. discussion Rel-18 NR\_mobile\_IAB

[R2-2312366](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312366.zip) Views on the usage of SIB4 (frequency/cell list) assistance information for cell reselection Huawei, HiSilicon discussion Rel-18 NR\_mobile\_IAB-Cor

[R2-2312469](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312469.zip) Remaining issues for mobility enhancement of idle and inactive UE Lenovo discussion Rel-18

[R2-2312845](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312845.zip) Further details on mIAB PCI list Sony discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2312854](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312854.zip) Remaining issues on IDLE/INACTIVE mode UE mobility for mobile IAB Kyocera discussion Rel-18

[R2-2313268](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313268.zip) Remaining issues for mobile IAB PCI list SHARP Corporation discussion Rel-18

[R2-2313392](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313392.zip) Clarification on the IDLE or INACTIVE mobility with mIAB Xiaomi discussion Rel-18 NR\_mobile\_IAB-Core

CAG related potential impact

[R2-2313305](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313305.zip) Resolving open issues for cell reselection LG Electronics discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2313199](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313199.zip) Cell reselection issues for UEs in mobile IAB scenarios Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2312323](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312323.zip) Remaining issues on Cell reselection in mobile IAB Apple discussion Rel-18 NR\_mobile\_IAB-Core

IRAT

[R2-2313013](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313013.zip) On support of inter-RAT mIAB cell reselection Samsung, AT&T discussion Rel-18 NR\_mobile\_IAB-Core

Reduce RNAU

[R2-2312982](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312982.zip) Indication of DU-migration to UEs in IDLE and INACTIVE Ericsson discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2312423](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312423.zip) Discussion on mobility enhancement for UE in idle or inactive mode ZTE, Sanechips discussion Rel-18 NR\_mobile\_IAB-Core

#### 7.12.2.5 UE capabilites

TS impacts to 38306, related impacts on 38331 and UE-caps-centric open issues.

[R2-2313200](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313200.zip) Open issues on mobile IAB capabilities Nokia, Nokia Shanghai Bell discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2312149](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312149.zip) Discussion on mobile IAB-MT UE capability Intel Corporation discussion Rel-18 NR\_mobile\_IAB

[R2-2312324](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312324.zip) Remaining issues on UE capability in mobile IAB Apple discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2312425](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312425.zip) Discussion on UE capability ZTE, Sanechips discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2312984](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312984.zip) Need of UE capability for mIAB UEs Ericsson discussion Rel-18 NR\_mobile\_IAB-Core

[R2-2313257](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313257.zip) On capabilities of mobile IAB-node CATT discussion Rel-18 NR\_mobile\_IAB

[R2-2313285](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313285.zip) Mobile IAB UE Capabilities AT&T discussion

## 7.22 Study on low-power wake-up signal and receiver for NR

(FS\_NR\_LPWUS; leading WG: RAN1; REL-18; WID: [RP-232672](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_101/Docs/RP-232672.zip))

Time budget: 0.5 TU

Tdoc Limitation: 2 tdoc

General

- Session Chair suggests to base meeting discussion mainly on Rapporteur tdocs, and encourage delegates to indicate their necessary points by commenting. Suggest further to consider all tdocs under 7.22 as Noted (Treated).

- Session Chair think that during the SI, no blockers have been found, the main / most obvious potential technical solution / consequences / alternatives are described in the TR, but as necessary L1 assumptions has not yet need established, and the Time allocation has been limited, the RAN2 study had no possibility to make detailed solution choices or exhaustively include all aspects. Session chair understands that such remaining aspects are on such level that they can be handled during normal execution of a WI.

### 7.22.1 Organizational

Incoming LSs, Rapporteur input etc. Including outcome of [Post123bis][563][LP-WUS] R2 Text Proposal (vivo)

R2-2311915 Summary of discussions on open issues for LP-WUS vivo discussion Rel-18 FS\_NR\_LPWUS

[R2-2312571](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312571.zip) TP for TR conclusion on high layer aspects vivo (Rapporteur) discussion Rel-18 FS\_NR\_LPWUS

[R2-2311914](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311914.zip) Update of TR 38.869 for LP-WUS WUR vivo (Rapporteur) discussion Rel-18 FS\_NR\_LPWUS

### 7.22.2 Idle Inactive Mode

[R2-2311774](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311774.zip) Use of low-power receiver in RRC Idle/Inactive Qualcomm Incorporated discussion Rel-18 FS\_NR\_LPWUS

[R2-2311896](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311896.zip) LP-WUS in RRC Idle/ Inactive Mode Lenovo discussion FS\_NR\_LPWUS#

[R2-2311916](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311916.zip) Discussion on LP-WUS WUR in RRC\_IDLE INACTIVE vivo discussion Rel-18 FS\_NR\_LPWUS R2-2309735

[R2-2311969](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311969.zip) Discussion on LP-WUS in RRC\_IDLE/INACTIVE OPPO discussion Rel-18 FS\_NR\_LPWUS

[R2-2311981](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311981.zip) General considerations on the procedure for RRC\_IDLE\_INACTIVE Xiaomi Communications discussion

[R2-2312074](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312074.zip) Discussion on LPWUS in RRC\_IDLE INACTIVE NEC discussion FS\_NR\_LPWUS

[R2-2312298](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312298.zip) RAN2 impact of LP-WUS in RRC\_IDLE/INACTIVE state Apple discussion Rel-18 FS\_NR\_LPWUS

[R2-2312387](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312387.zip) Remaining issues of LP-WUS in idle or inactive mode ZTE Corporation, Sanechips discussion FS\_NR\_LPWUS

[R2-2312450](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312450.zip) Open issues in IDLE/INACTIVE Procedures to support LP-WUR Samsung R&D Institute India discussion Rel-18

[R2-2312640](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312640.zip) Remaining issues on LP-WUS in RRC\_IDLE/INACTIVE state Huawei, HiSilicon discussion Rel-18 FS\_NR\_LPWUS

[R2-2312737](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312737.zip) LP-WUS in RRC IDLE and INACTIVE Nokia, Nokia Shanghai Bell discussion Rel-18 FS\_NR\_LPWUS

[R2-2312848](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312848.zip) RAN2 aspects on LP-WUS/WUR in RRC Idle/Inactive mode Sony discussion Rel-18 FS\_NR\_LPWUS

[R2-2313103](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313103.zip) LP-WUS in IDLE or INACTIVE LG Electronics Inc. discussion Rel-18 FS\_NR\_LPWUS

[R2-2313230](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313230.zip) LP-WUS/WUR for RRC Idle and Inactive Ericsson discussion Rel-18 FS\_NR\_LPWUS

[R2-2313274](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313274.zip) Further considerations on LP-WUS in RRC\_IDLE&INACTIVE state CATT discussion Rel-18 FS\_NR\_LPWUS

* All 15 tdocs are Noted

### 7.22.3 Connected Mode

[R2-2311917](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311917.zip) Discussion on LP-WUS WUR in RRC\_Connected vivo discussion Rel-18 FS\_NR\_LPWUS

[R2-2311926](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311926.zip) LP-WUS in RRC Connected Mode Lenovo discussion FS\_NR\_LPWUS

[R2-2311961](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311961.zip) Discussion on LP-WUS in RRC Connected OPPO discussion Rel-18 FS\_NR\_LPWUS

[R2-2311982](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2311982.zip) Discussing on LP-WUS monitoring for RRC\_Connected Xiaomi Communications discussion

[R2-2312075](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312075.zip) Discussion on LPWUS in RRC\_CONNECTED NEC discussion FS\_NR\_LPWUS

[R2-2312388](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312388.zip) Remaining issues of LP-WUS in connected mode ZTE Corporation, Sanechips discussion FS\_NR\_LPWUS

[R2-2312449](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312449.zip) Discussion on LP-WUS in connected mode Samsung R&D Institute India discussion Rel-18

[R2-2312641](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312641.zip) Further considerations on LP-WUS in RRC\_CONNECTED Huawei, HiSilicon discussion Rel-18 FS\_NR\_LPWUS

[R2-2312847](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2312847.zip) Considerations on LP-WUS/WUR in RRC connected mode Sony discussion FS\_NR\_LPWUS

[R2-2313127](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313127.zip) On LP-WUS in RRC\_CONNECTED Nokia, Nokia Shanghai Bell discussion FS\_NR\_LPWUS

[R2-2313231](file:///C%3A%5CUsers%5Cmtk65284%5CDocuments%5C3GPP%5Ctsg_ran%5CWG2_RL2%5CRAN2%5CDocs%5CR2-2313231.zip) LP-WUS/WUR for RRC Connected Ericsson discussion Rel-18 FS\_NR\_LPWUS

* All 11 tdocs are Noted