3GPP TSG-RAN WG2 Meeting #116bis electronic R2-2xxxxxx

Online, January, 2022

Source: RAN2 Chair (MediaTek)

Title: Chair Notes

# AT-Meeting Email / Offline Discussion List, Main Session

Additional deadlines check points etc if needed are defined by the Rapporteur of each discussion respectively. In case some parts of an email discussion need more time, doesn’t converge, need not yet planned on-line treatment, then Rapporteur please contact chair.

* [AT116bis-e][000] Organizational Main (Chair)

 Scope: Opening and closing of the meeting, Treat AIs 1 & 2, LSes that do not need actions. Anything going beyond other discussions can be raised, for the meeting or Main session.

 Deadline: EOM

 Numbers **[001] – [016]** used for Pre Discussions

* [AT116bis-e][017][NR17] UE caps main (Intel)

 Scope: Progress the Draft CRs to 38306 38331 based on received feature list, for all R17 WIs, except the ones for which this is handled separately (see above). Identify questions for LS out, if any. Identify issues for online CB, if any.

 Intended outcome: 1 report - if needed, 2 endorsed draft CRs

 Deadline: 1 for online CB Monday W2 (if needed), 2 EOM

* [AT116bis-e][018][NR17] Gaps Coordination (Mediatek)

 Scope: List the relevant gap features and potential opportunities regarding commonality, parts that need coordination (e.g. common capability/overall limitation). Collect comments, e.g. on feasibility, ambition levels, what to decide now, what to postpone etc. Consider proposals from tdocs submitted to 8.0.3.

 Intended outcome: Report, ambition level up to rapporteur.

 Deadline: For On-Line CB W2

* [AT116bis-e][019][MBS] Multicast Handover and related reconfigurations (Qualcomm)

 Scope: Address FFSes on in which scenarios to support lossless handover and how to do that (including case of mobility to non-supporting node) and related high level implications to stage-3 if any not already covered. Determine expectations on when to use of full configuration vs delta configuration. Confirm expectations on MRB-DRB type reconfiguration. (see also P19 in R2-2200021). Can also include message sequence chart(s) for inclusion in Stage-2. Also: Collect comments on whether CHO and/or DAPS should be prevented or can be allowed for UE with Multicast / MRB configuration, and if allowed whether there are additional impacts.

 Intended outcome: Report

 Deadline: Online CB Friday W1

* [AT116bis-e][020][MBS] Multicast Start (LGE)

 Scope: Address open issues related to Multicast start (ref green-marked Open issues R2-2200022), Group Notification - Applicability of PEI/WUS, applicability of short message. Connection establishment - Access Control and cause value

 Intended outcome: Report

 Deadline: Friday W1 for online CB.

* [AT116bis-e][021][MBS] MBS Interest Indication Open Issues (CMCC)

 Scope: Address green-marked Open issues related to MII in R2-2200022, and related tdoc input. Address MII indication handling at handover. Collect comments, identify easy agreements and discussion points.

 Intended outcome: Report

 Deadline: For CB on-line Thursday W1.

* [AT116bis-e][022][MBS] Cell reselection Prioritization (CATT)

 Scope: Address remaining open issues (ref green-marked Open issues R2-2200022), Whether to/how to apply target cell conditions (presence of SIBx) for prioritization, Need for additional neighbor cell info (ref provided tdocs). Which info the UE uses to determine what to prioritize: SIB info vs USD info vs MCCH info (ref provided tdocs),

 Intended outcome: Report

 Deadline: Friday W1 for online CB

* [AT116bis-e][023][MBS] MCCH (LGE)

 Scope: Address the next level of details regarding Change Notification. Open issues on Acquisition of MCCH, and possibly related SIB handling, whether to support area based MCCH.

 Intended outcome: Report

 Deadline: Friday W1

* [AT116bis-e][024][MBS] RRC Miscellaneous (Huawei)

 Scope: Take into account R2-2200095 (L1 parameters), R2-2200814, R2-2200815, relevant Open Issues from R2-22000022 (blue-marked and other smaller, if any). Address FFS whether some explicit indication is needed for the UE to know that an RLC entity is configured for PTM transmission. Acknowledge the way MRB bearer configuration is captured in current running CR. Progress offline as much as possible by easy agreements, Identify points for further discussion if any.

 Intended outcome: Report, Endorsed/confirmed updated RRC CR.

 Deadline: Friday W1 (CB online if needed).

* [AT116bis-e][025][MBS] CFR Case E (vivo)

 Scope: Address support of CFR Case E (and other case of needed). Treat at least the proposals in R2-2201260. Can also take into account proposals from other papers.

 Intended outcome: Report

 Deadline: Thursday W1 for online CB

* [AT116bis-e][026][MBS] UE capabilities (MediaTek)

 Scope: Initial discussion on MBS UE capabilities, Identify easy agreements (can be agreed offline), discussion points and points that may need LS to other working group(s). Coordination may be needed between this discussion and the main UE caps discussion.

 Intended outcome: Report

 Deadline: Friday W1 for parts that need concrete action at current meeting by online CB, otherwise EOM.

* [AT116bis-e][027][MBS] PDCP/RLC initial variables (xiaomi)

 Scope: HFN applicability / initialization for both multicast and broadcast, how to set RLC initial values.

 Intended outcome: Report

 Deadline: Friday W1 (attempt offline agreement, can CB if needed W2)

* [AT116bis-e][028][MBS] MAC Open Issues (OPPO)

 Scope: Address MAC related open issues, as captured in R2-2200022 and R2-2111414 (running CR). Take into account input to this meeting. Identify (easy) agreements, points for discussion etc.

 Intended outcome: Report

 Deadline: First Deadline Friday W1 (CB online to some important point)

* [AT116bis-e][029][QoE] RAN Visible QoE (Qualcomm)

 Scope: Determine what RAN2 need to do to support RAN3 decisions in LS in R2-2200110, Take into account documents in subclause 8.14.2. and make the corresponding decisions to such level that it is possible to make corresponding Stage-3 updates.

 Intended outcome: Report, with discussion and agreements

 Deadline: Friday W1

* [AT116bis-e][030][QoE] Other open issues (Ericsson)

 Scope: List the remaining other open issues not related to Mobility, Pause Resume, RV QoE or UE cap. Determine agreements (agreed offline), and points for online CB, if any.

 Intended outcome: Report

 Deadline: Friday W1 (can CB Mon W2 if needed).

* [AT116bis-e][031][QoE] UE capabilities (CMCC)

 Scope: Initial discussion on proposals from documents under 8.14.4. Identify agreeable points, points for discussion, if any. Points postponed, if any. Attempt endorsement of Running CR.

 Intended outcome: 1 Report 2 Endorsed running CR.

 Deadline: 1 Friday W1, 2 EOM

* [AT116bis-e][032][eNPN] UE capabilities (Intel)

 Scope: Initial discussion on UE caps. Identify agreements (for offline agreement), and Open issues, to be addressed at next meeting. If need is high, e.g. if LS out is needed, can also identify some point for online CB W2.

 Intended outcome: Report

 Deadline: EOM (or earlier for CB point if needed).

* [AT116bis-e][033][NR17] (Huawei)

 Scope: Treat R2-2200086, R2-2201341, R2-2201502, R2-2201503, R2-2201504. Determine agreeable parts, identify parts for online CB.

 Intended outcome: 1 Report, 2 Reply LS, Draft CRs if applicable.

 Deadline: 1 On-Line CB Thu W1, 2 EOM

* [AT116bis-e][034][NR17] PUCCH SCell activation invalid TA (CATT)

 Scope: Delay start of this discussion until R1 has replied to the LS in R2-2200133/R4-2120420, and take the R1 reply into account. Treat R2-2200133, R2-2200891, R2-2200892

 Intended outcome: Report, Approved LS out.

 Deadline: EOM

* [AT116bis-e][035][NR17] DC Location Reporting (Qualcomm)

 Scope: Treat R2-2200117, R2-2201059, R2-2201436, R2-2200306. Aim to clarify what RAN2 need to do. Initial Collection of comments. Pave the way for on-line discussion on way forward.

 Intended outcome: Report

 Deadline: For Online CB Thu W1.

* [AT116bis-e][036][NR17] UL TX switching Enh (China Telecom)

 Scope: Treat R2-2200120, R2-2201499, R2-2201500, R2-2201501, R2-2200516. R2-2200519, R2-2200517, R2-2200518, Take into account R2-2200095.

 1: Determine agreeable parts, parts that need CB on-line if any 2: agree updated Running CRs that reflect agreeable parts / agreements.

 Intended outcome: 1 Report, 2 endorsed running CRs

 Deadline: 1 for online CB Mon W2 if CB is needed, 2 EOM

* [AT116bis-e][037][NR17] FR2 CA BW class (Nokia)

 Scope: Treat R2-2200118, R2-2200839, R2-2200840, R2-2200841, R2-2200843, R2-2201385. Progress the topic, Determine agreeable parts, for agreeable parts, agree CRs, approve reply LS out if agreeable.

 Intended outcome: Report, agreed in principle CRs, Approved LS out if applicable.

 Deadline: EOM (or earlier if online CB is needed, can CB W2).

* [AT116bis-e][038][NR17] FR2 UL Gap (Apple)

 Scope: Treat R2-2200122, R2-2201105. Aim to clarify what is needed in R2, determine agreeable parts, open points, pave the way for online disc.

 Intended outcome: Report

 Deadline: CB online Mon W2.

* [AT116bis-e][039][NR17] RRM enh for HST (CMCC)

 Scope: Treat R2-2200123, R2-2201334, R2-2201335, R2-2201336, R2-2200864, R2-2200865. 1 Determine what RAN2 need to do / agreeable parts 2 endorse Draft CRs.

 Intended outcome: Report, endorsed Draft CRs.

 Deadline: EOM (assume no online CB)

* [AT116bis-e][040][NR17] BCS4/BCS5 (xiaomi)

 Scope: Treat R2-2201371, R2-2201372

 Intended outcome: Agreed in principle CRs.

 Deadline: Friday W1

* [AT116bis-e][041][NR17] HO with PSCell (MediaTek)

 Scope: Treat R2-2200124, R2-2201673 (late), make a reply LS.

 Intended outcome: Approved LS out

 Deadline: Friday W1

* [AT116bis-e][042][NR17] DSS (Ericsson)

 Scope: Treat R2-2200294, R2-2201039, R2-2201040, R2-2201396, R2-2201618. If possible, offline only, if needed CB W2. 1 Determine Agreeable parts 2 Update Running CR(s) to reflect agreeable parts.

 Intended outcome: Report, Endorsed updated CR.

 Deadline: Friday W1

* [AT116bis-e][043][NR17] MINT (Ericsson)

 Scope: Take into account submitted documents incl Reply LS from CT1. Update Running CR to reflect Reply LS from CT1, and other discussion if agreeable. 1 Determine agreeable parts, and points for online CB if any. 2 endorse updated CR

 Intended outcome: Report, endorsed CR

 Deadline: 1 Friday W1 (can CB W2 if needed), 2 EOM

* [AT116bis-e][044][NR17] RRC resume security (NTT DOCOMO)

 Scope: Reply to LS in R2-2200154. Consider R2-2201506, R2-2201161, R2-2201162 (chair comment: pl consider also that R2 doesn’t need to reply to aspects typically in R3 domain).

 Intended outcome: Approved LS out

 Deadline: EOM

* [AT116bis-e][045][NR17] Duplicate Measurement Reply LS (Qualcomm)

 Scope: Treat R2-2200135, R2-2201083, R2-2201084. Make a reply LS

 Intended outcome: Approved reply LS

 Deadline: Friday W1

* [AT116bis-e][046][IoT-NTN] RRC Misc (Huawei)

 Scope: Review of the last update IN R2-2201451 (including Latest L1 parameters). This phase of the discussion is offline only. If issues are found, capture as editors notes (or in an annex etc).

 Intended outcome: Report

 Deadline: Initial review during W1.

* [AT116bis-e][047][IoT-NTN] UE capabilities (Nokia)

 Scope: Take into account proposals of documents submitted under 9.2.5, find agreements if possible (can agree offline), identify open points. This discussion is offline only.

 Intended outcome: Report

 Deadline: EOM

# 1 Opening of the meeting

**This e-Meeting**

- This e-Meeting follows 3GPP principles for e-Meetings.

- RAN2 116 bis electronic has full decision power, i.e. full decision power to make agreements and approvals according to RAN WG2 terms of reference, without any need to ratify decisions at a later RAN2 or other meeting.

## 1.1 Call for IPR

The attention of the delegates of this Working Group is drawn to the fact that **3GPP Individual Members have the obligation** under the IPR Policies of their respective Organizational Partners **to inform their respective Organizational Partners of Essential IPRs they become aware of.**

The delegates are/were asked to take note that they were hereby invited:

• to investigate whether their organization or any other organization owns IPRs which were, or were likely to become Essential in respect of the work of 3GPP.

• to notify their respective Organizational Partners of all potential IPRs, e.g., for ETSI, by means of the IPR Statement and the Licensing declaration forms (<https://www.etsi.org/images/files/IPR/etsi-ipr-form.doc>)

NOTE: IPRs may be declared to the Director-General or Chair of the SDO, but not to the RAN WG2 Chair.

## 1.2 Network usage conditions

1/ To avoid email system overload, please don’t attach files and documents to emails e.g. for offline email discussions, but instead use files placed on the ftp server instead. Inbox/Drafts folder is used for AT-meeting offline discussions.

## 1.3 Other

In accordance with the Working Procedures it is reaffirmed that:

(i) compliance with all applicable antitrust and competition laws is required;

(ii) timely submissions of work items in advance of TSG or WG meetings are important to allow for full and fair consideration of such matters; and

(iii) the chairman will conduct the meeting with strict impartiality and in the interests of 3GPP

Note on (i): In case of question please contact your legal counsel.

Note on (ii): WIDs don’t need to be submitted to the RAN2 meeting and will typically not be discussed here either.

# 2 General

## 2.1 Approval of the agenda

R2-2200000 Agenda for RAN2#116bis-e Chairman agenda

## 2.2 Approval of the report of the previous meeting

R2-2200001 RAN2#116-e Meeting Report MCC report

## 2.3 Reporting from other meetings

### 2.3.1 TSG RAN 94e

## 2.4 Others

R2-2200002 RAN2 Handbook 01-22 MCC discussion Late

Instructions UE capabilites

There is no specific coordination for EUTRA UE capabilities. WI specific CRs shall be developed.

For Rel17 NR UE capabilities the following applies:

1: Aim to Work on mega CRs (one mega CR for TS 38.306 and one for TS 38.331). This work is done under Agenda Item AI 8.0.2

2: Coordinate centrally incorporation in CRs of RAN1 / RAN4 features for all Rel17 WIs. This work is done under Agenda Item AI 8.0.2 and changes are done directly to the mega CRs. There could be exceptions, case by case, where RAN1 / RAN4 features are treated under a WI-specific Agenda Item instead.

3: RAN2 should only implement in the CRs the features / feature groups from the RAN1 and RAN4 feature list without any FFS (no highlighted yellow, [] and/or marked as FFS/TBD). Also UE Capabilities that are dependent on such FFS features should not be implemented.

4: R2 Features and capabilities developed only in R2, are developed individually per WI, under WI-specific Agenda Items. Draft CRs (running CRs) for 38.331 and 38.306 are produced. The 306 CRs shall include an annex containing the RAN2 determined UE capabilities in the feature list format (similar to annex containing RAN2 agreements) for easy compilation into the TR38.822 in the later stage.

5. At the end of R2 117 (Feb meeting), endorsed WI specific UE capability CRs will be merged into the mega CRs, and the mega CRs will be provided to TSG RAN. Any exception to this need to be decided case by case.

Instruction tdoc limitations (small reminder)

Tdoc limitations doesn’t apply to Rapporteur Input, i.e.

- Assigned summary rapporteur input of the summary.

- Email / offline discussions outcomes by discussion rapporteur,

- WI rapporteurs input for WI planning etc,

- TS rapporteur input for TS maintenance

- Assigned Editor of Running CRs input to update the running CR and input of one tdoc to facilitate addressing of CR open issues.

- Contact Company of a LSin that triggers RAN2 action may submit one tdoc to facilitate the LS reply.

Tdoc limitations doesn’t apply to Input created at the meeting, revisions, assigned documents etc.

Tdoc limitations applies to all other submitted tdocs.

# 3 Incoming liaisons

Note: LSs are moved to the respective agenda items if any.

LS in

R2-2200111 Reply LS on Guidelines on Port Allocation for New 3GPP Interfaces (R3-216233; contact: Ericsson) RAN3 LS in Rel-17 TEI17 To:CT4 Cc:RAN2, SA4, CT3, SA5, SA2, SA, CT, RAN

[000] Propose noted

R2-2200137 LS response to ETSI TC LI on Location Services for Drones (RP-213674; contact: Ericsson) RAN LS in To:ETSI TC LI Cc:RAN2, SA3 LI

[000] Propose noted

R2-2200164 LS on Energy Efficiency as guiding principle for new solutions (SP-211621; contact: Nokia) SA LS in To:RAN, CT, SA1, SA2, SA3, SA4, SA5, SA6, RAN1, RAN2, RAN3, RAN4, RAN5, CT1, CT3, CT4, CT6

[000] Propose noted

LS in Rel-15 Rel-16

R2-2200063 LS on NAS procedure not subject to UAC (C1-217227; contact: Apple) CT1 LS in Rel-15 NR\_newRAT-Core To:RAN2

R2-2200070 Reply LS on RMSI reception based on non-zero search space (R1-2112765; contact:OPPO) RAN1 LS in Rel-15 NR\_newRAT-Core To:RAN2

R2-2200079 Reply LS on PDCCH Blind Detection in CA (R1-2112833; contact: Huawei) RAN1 LS in Rel-16 NR\_L1enh\_URLLC-Core To:RAN2

R2-2200087 Reply LS on initial state of elements controlled by MAC CEs (R1-2112860 RAN1 LS in Rel-15 NR\_newRAT-Core To:RAN2 Cc:RAN4

R2-2200088 Reply LS on UL skipping with LCH prioritization (R1-2112862; contact: vivo) RAN1 LS in Rel-16 NR\_IIOT-Core, NR\_L1enh\_URLLC-Core To:RAN2

R2-2200102 Reply LS to RAN2 on the misalignment in SRS configuration (R3-216009; contact: Samsung) RAN3 LS in Rel-16 NR\_pos To:RAN2 Cc:SA2

R2-2200106 Reply LS on inter-MN handover without SN change (R3-216165; contact: Huawei) RAN3 LS in Rel-15 NR\_newRAT-Core To:RAN2

R2-2200107 Reply LS on Bearer pre-emption rate limit issue for GBR bearer establishment in MC systems (R3-216196; contact: Nokia) RAN3 LS in Rel-16 enh2MCPTT To:SA6 Cc:RAN, RAN2

R2-2200114 Reply LS on signalling SN initiated release of SCG (R3-216236; contact: Ericsson) RAN3 LS in Rel-15 NR\_newRAT-Core To:RAN2

R2-2200116 LS on Rel-16 updated RAN4 UE features lists for LTE and NR (R4-2118536; contact: CMCC) RAN4 LS in Rel-16 To:RAN2 Cc:RAN1

R2-2200119 LS on Signalling of PC2 V2X intra-band concurrent operation (R4-2119992; contact: Xiaomi) RAN4 LS in Rel-16 5G\_V2X\_NRSL-Core To:RAN2

R2-2200121 LS on PEMAX for NR-V2X (R4-2120047; contact: Huawei, CATT) RAN4 LS in Rel-16 5G\_V2X\_NRSL-Core To:RAN1, RAN2

R2-2200134 LS UE capability for supporting single DCI transmission schemes for multi-TRP (R4-2120652; contact: Apple) RAN4 LS in Rel-16 NR\_eMIMO-Perf To:RAN1 Cc:RAN2

R2-2200135 LS on Duplicate Measurements when SCell is a Neighbor Cell (R5-217991; contact: Qualcomm) RAN5 LS in Rel-15 5GS\_NR\_LTE-UEConTest To:RAN2

R2-2200136 LS on configuration of p-MaxEUTRA and p-NR-FR1 (R5-217995; contact: Huawei) RAN5 LS in Rel-15 NR\_newRAT-Core To:RAN1, RAN2, RAN4

[000] 15 LS in’s above: Propose POSTPONED to next meeting

# 4 EUTRA corrections Rel-15 and earlier

This Agenda item will not be treated and no input is expected.

R2-2201532 Discussion on handling QoE configuration in full configuration Google Inc. discussion Rel-15 LTE\_QMC\_Streaming-Core

[000] Not Treated, Proponent may resubmit to next meeting.

# 5 Rel-15 WI: New Radio (NR) Access Technology

(NR\_newRAT-Core; leading WG: RAN1; REL-15; started: Mar. 17; closed: Jun. 19: WID: RP-191971)

This Agenda item will not be treated and no input is expected.

# 6 Rel-16 NR Work Items

This Agenda item will not be treated and no input is expected.

Note: Outcome of long email discussions for AI 6xx may be submitted here. They will be postponed and need to be resubmitted to R2 117.

R2-2200034 Summary [POST116-e][710][V2X/SL] PDCP/RLC Entity Maintenance for SL-SRBs (CATT) CATT discussion 5G\_V2X\_NRSL-Core

R2-2200035 Corrections on MAC filtering issue for the first unicast PC5-S signalling CATT draftCR Rel-17 38.321 16.7.0 F 5G\_V2X\_NRSL-Core

R2-2200036 Corrections on RLC entity establishment issue for the first unicast PC5-S signalling CATT draftCR Rel-17 38.322 16.2.0 F 5G\_V2X\_NRSL-Core

R2-2200037 Corrections on PDCP entity establishment issue for the first unicast PC5-S signalling CATT draftCR Rel-17 38.323 16.6.0 F 5G\_V2X\_NRSL-Core

R2-2200305 Handling of ServingCellConfigCommon Qualcomm Incorporated CR Rel-16 38.331 16.7.0 2866 - F TEI16

R2-2200439 Draft reply LS on PEMAX for NR-V2X Qualcomm Finland RFFE Oy LS out Rel-16 5G\_V2X\_NRSL-Core To:RAN4

R2-2201539 Correction on LTE UE RLF Report China Telecommunications, CATT discussion

R2-2201540 Correction to RRC reconfiguration for IAB Google Inc. CR Rel-16 38.331 16.7.0 2874 - F NR\_IAB-Core

[000] 8 tdocs above are Not Treated, Proponents may resubmit to next meeting.

# 7 Rel-16 EUTRA Work Items

This Agenda item will not be treated and no input is expected.

# 8 Rel-17 NR Work Items

## 8.0 General

Please input to 8.0.x. These AIs includes General Aspects regarding Rel 17, both NR and LTE, organizational and planning, common aspects regarding UE caps, RRC parameters, running CRs, need for organized inter-WI coord etc. A main purpose of this AI is to provide opportunity for rapporteurs and other highly interested to illuminate important aspects for the finalization phases of Rel-17. Input to this AI is optional. Note that the multi-WI topic of RACH indication and partitioning is handled under a separate AI.

LS on MAC CEs

R2-2200081 LS on Rel-17 MAC-CE impacts (R1-2112842; contact: Nokia)        RAN1    LS in   Rel-17  NR\_feMIMO, NR\_ext\_to\_71GHz, NR\_IIOT\_URLLC\_enh, NR\_NTN\_solutions, NR\_pos\_enh, NR\_redcap, NR\_UE\_pow\_sav\_enh, NR\_cov\_enh, NR\_IAB\_enh, NR\_SL\_enh, NR\_MBS, NR\_DSS, LTE\_NR\_DC\_enh2, LTE\_NBIOT\_eMTC\_NTN, NB\_IOTenh4\_LTE\_eMTC6, LTE\_terr\_bcast\_bands\_part1      To:RAN2 Cc:RAN4

Chair: This need to be taken into account for the WI-specific CRs, in each session.

### 8.0.1 RRC

Note that Rel-17 Cat B RRC CRs (maybe with some exception) are expected to be WI-specific. Including discussions on plan for ASN.1 review.

LS on L1 RRC parameters

R2-2200095 LS on updated Rel-17 LTE and NR higher-layers parameter list (R1-2112977; contact: Ericsson) RAN1 LS in Rel-17 NR\_feMIMO, NR\_ext\_to\_71GHz, NR\_IIOT\_URLLC\_enh, NR\_NTN\_solutions, NR\_pos\_enh, NR\_redcap, NR\_UE\_pow\_sav\_enh, NR\_cov\_enh, NR\_IAB\_enh, NR\_SL\_enh, NR\_MBS, NR\_DSS, LTE\_NR\_DC\_enh2, NR\_RF\_FR1\_enh, NR\_SmallData\_INACTIVE, NB\_IOTenh4\_LTE\_eMTC6, LTE\_NBIOT\_eMTC\_NTN, LTE\_terr\_bcast\_bands\_part1 To:RAN2, RAN3 Cc:RAN4

Chair: This need to be taken into account for the WI-specific CRs, in each session.

ASN.1 review

online

R2-2201172 Rel-17 ASN.1 review plan Ericsson discussion Rel-17 TEI17 Late

Set Modify Release

online

R2-2201488 Set Modify Release structure Ericsson discussion

R2-2201487 Draft CR for SetModifyRelease structure (38.331) Ericsson draftCR Rel-17 38.331 16.7.0 B NR\_newRAT-Core

### 8.0.2 UE capabilities

Feature lists from other groups and UE cap Mega CRs will be treated under this AI, except for NR\_ext\_to\_71GHz-Core and NR\_pos\_enh for which all UE caps are treated under AI 8.20.2. Specific issues may be reallocated to WI-specific AIs.

PLEASE see also instructions under AI 2.4.

R1 R4 Features UE caps

Offline + online CB if needed

* [AT116bis-e][017][NR17] UE caps main (Intel)

 Scope: Progress the Draft CRs to 38306 38331 based on received feature list, for all R17 WIs, except the ones for which this is handled separately (see above). Identify questions for LS out, if any. Identify issues for online CB, if any.

 Intended outcome: 1 report - if needed, 2 endorsed draft CRs

 Deadline: 1 for online CB Monday W2 (if needed), 2 EOM

R2-2200091 LS on updated Rel-17 RAN1 UE features list for NR (R1-2112903; contact: NTT DOCOMO, AT&T) RAN1 LS in Rel-17 NR\_feMIMO, NR\_ext\_to\_71GHz, NR\_IIOT\_URLLC\_enh, NR\_NTN\_solutions, NR\_pos\_enh, NR\_redcap, NR\_UE\_pow\_sav\_enh, NR\_cov\_enh, NR\_IAB\_enh, NR\_SL\_enh, NR\_MBS, NR\_DSS, LTE\_NR\_DC\_enh2, NR\_DL1024QAM\_FR1, NR\_RF\_FR1\_enh, NR\_SmallData\_INACTIVE To:RAN2 Cc:RAN4

R2-2200072 LS on updated Rel-16 RAN1 UE features lists for NR after RAN1#107-e (R1-2112778; contact: NTT DOCOMO) RAN1 LS in Rel-16 NR\_2step\_RACH-Core, NR\_unlic-Core, NR\_IAB-Core, 5G\_V2X\_NRSL-Core, NR\_L1enh\_URLLC-Core, NR\_IIOT-Core, NR\_eMIMO-Core, NR\_UE\_pow\_sav-Core, NR\_pos-Core, NR\_Mob\_enh-Core, LTE\_NR\_DC\_CA\_enh-Core, TEI16, NR\_CLI\_RIM-Core To:RAN2 Cc:RAN4

R2-2200458 Release-17 UE capabilities based on R1 and R4 feature lists (TS38.306) Intel Corporation draftCR Rel-17 38.306 16.7.0 B NR\_MBS-Core, NR\_IAB\_enh-Core, NR\_IIOT\_URLLC\_enh-Core, NR\_UE\_pow\_sav\_enh-Core, NR\_NTN\_solutions-Core, NR\_pos\_enh-Core, NR\_redcap-Core, NR\_SL\_enh-Core, NR\_feMIMO-Core, NR\_cov\_enh-Core, NR\_DL1024QAM\_FR1

R2-2200459 Release-17 UE capabilities based on R1 and R4 feature lists (TS38.331) Intel Corporation draftCR Rel-17 38.331 16.7.0 B NR\_MBS-Core, NR\_IAB\_enh-Core, NR\_IIOT\_URLLC\_enh-Core, NR\_UE\_pow\_sav\_enh-Core, NR\_NTN\_solutions-Core, NR\_pos\_enh-Core, NR\_redcap-Core, NR\_SL\_enh-Core, NR\_feMIMO-Core, NR\_cov\_enh-Core, NR\_DL1024QAM\_FR1

R2-2201653 Release-17 UE capabilities based on R1 and R4 feature lists (TS38.306) Intel Corporation draftCR Rel-17 38.306 16.7.0 B NR\_MBS-Core, NR\_IAB\_enh-Core, NR\_IIOT\_URLLC\_enh-Core, NR\_UE\_pow\_sav\_enh-Core, NR\_NTN\_solutions-Core, NR\_pos\_enh-Core, NR\_redcap-Core, NR\_SL\_enh-Core, NR\_feMIMO-Core, NR\_cov\_enh-Core, NR\_DL1024QAM\_FR1

R2-2201654 Release-17 UE capabilities based on R1 and R4 feature lists (TS38.331) Intel Corporation draftCR Rel-17 38.331 16.7.0 B NR\_MBS-Core, NR\_IAB\_enh-Core, NR\_IIOT\_URLLC\_enh-Core, NR\_UE\_pow\_sav\_enh-Core, NR\_NTN\_solutions-Core, NR\_pos\_enh-Core, NR\_redcap-Core, NR\_SL\_enh-Core, NR\_feMIMO-Core, NR\_cov\_enh-Core, NR\_DL1024QAM\_FR1

FRx xDD differentiation

Online

R2-2201489 Allowing FRx/xDD differentiation on UE capabilities Ericsson, Samsung discussion

Legacy

Not Treated at R2 116bis-e

R2-2200307 Discussion on BWP operation without bandwidth restriction Qualcomm Incorporated discussion Rel-17 TEI17

### 8.0.3 Gaps Coordination

Tdoc limitation: 1

Under this AI, there will be one offline discussion on the need for / opportunity to achieve improvement (e.g. have better TSes) by coordinating the development of gaps in Rel-17, i.e. determine to what extent to coordinate principles, solutions etc. Way forward will be discussed in a Main session CB session in W2. This AI is complementary to other AIs, and this meeting, gaps technical discussions for each WI will be handled individually under each AI.

* [AT116bis-e][018][NR17] Gaps Coordination (Mediatek)

 Scope: List the relevant gap features and potential opportunities regarding commonality, parts that need coordination (e.g. common capability/overall limitation). Collect comments, e.g. on feasibility, ambition levels, what to decide now, what to postpone etc. Consider proposals from tdocs submitted to 8.0.3.

 Intended outcome: Report, ambition level up to rapporteur.

 Deadline: For On-Line CB W2

R2-2200221 Joint discussion for measurement gaps Intel Corporation discussion Rel-17 NR\_MG\_enh-Core

R2-2200292 Discussion on gaps coordination Huawei, HiSilicon discussion Rel-17 NR\_MG\_enh-Core

R2-2200588 Discussion on Gap coordination vivo discussion Rel-17 NR\_MG\_enh-Core, LTE\_NR\_MUSIM-Core, NR\_pos\_enh-Core

R2-2201057 Commonalities with measurement gaps in Rel-17 Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MG\_enh-Core, LTE\_NR\_MUSIM-Core, NR\_NTN\_solutions-Core, NR\_RF\_FR2\_req\_enh2-Core

R2-2201109 Discussion on gap features Apple discussion NR\_MG\_enh-Core, NR\_RF\_FR2\_req\_enh2, LTE\_NR\_MUSIM-Core

R2-2201238 Discussion on gap coordination MediaTek Inc. discussion

R2-2201565 Gaps coordination Ericsson discussion Rel-17

## 8.1 NR Multicast

(NR\_MBS-Core; leading WG: RAN2; REL-17; WID: RP-201038)

Time budget: 1.5 TU (reduced)

Tdoc Limitation: 5 tdocs

Email max expectation: 4-7 threads

NOTE. For an issue that potenitally impacts > 1 AI please anyway discuss such issues in one tdoc only.

### 8.1.1 Organizational

Incomimg LSes, Rapporteur docs. Running CRs

LS in

R2-2200066 Reply LS on MCCH change notification (R1-2112646; contact: BBC) RAN1 LS in Rel-17 NR\_MBS To:RAN2

R2-2200085 LS on MTCH scheduling window (R1-2112850; contact: BBC) RAN1 LS in Rel-17 NR\_MBS To:RAN2

R2-2200101 Reply LS on MBS broadcast service continuity and MBS session identification (R3-215977; contact: Huawei) RAN3 LS in Rel-17 NR\_MBS-Core To:RAN2, SA2, SA4

R2-2200108 LS on handover from MBS supporting node to MBS non-supporting node (R3-216222; contact: Lenovo) RAN3 LS in Rel-17 NR\_MBS-Core To:RAN2

R2-2200141 Reply LS on maximum number of MBS sessions that can be associated to a PDU session (S2-2109171; contact: Ericsson) SA2 LS in Rel-17 5MBS To:CT1, SA4, SA6, RAN2 Cc:RAN3

R2-2200142 LS on MBS broadcast service continuity and MBS session identification (S2-2109187; contact: Huawei) SA2 LS in Rel-17 NR\_MBS-Core, 5MBS To:RAN2 Cc:RAN3

R2-2200147 Reply LS on Feedback on data forwarding solutions for MBS (S2-2109351; contact: Nokia) SA2 LS in Rel-17 NR\_MBS-Core To:RAN3 Cc:RAN2

Planning

R2-2200022 NR MBS open issue list Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

### 8.1.2 Stage-2

This topic is deprioritized and will not be treated beyond post-capture of agreements. No input expected.

### 8.1.3 Control Plane

#### 8.1.3.1 General

Including untreated parts of R2-2111510 (from R2 116-e) that shall be resumbitted (at least the non treated proposals incl. the related discussion).

Including multicast service continuity during handover: cases for lossless/seamless handover behaviours in addition to ptp-ptp ho, if any, lossless ho during mobility between MBS supporting and non-supporting node.

Including Broadcast service continuity, e.g. MBS interest indication, network control, additional triggers, which RRC message, BWP open issues if any. Frequency prioritization Open issues as listed in 38304 running CR, e.g. relation information in USD vs SIBy, how to determine whether reselection candidate bcasts SIBx.

Multicast Handover

Offline + Online

* [AT116bis-e][019][MBS] Multicast Handover and related reconfigurations (Qualcomm)

 Scope: Address FFSes on in which scenarios to support lossless handover and how to do that (including case of mobility to non-supporting node) and related high level implications to stage-3 if any not already covered. Determine expectations on when to use of full configuration vs delta configuration. Confirm expectations on MRB-DRB type reconfiguration. (see also P19 in R2-2200021). Can also include message sequence chart(s) for inclusion in Stage-2. Also: Collect comments on whether CHO and/or DAPS should be prevented or can be allowed for UE with Multicast / MRB configuration, and if allowed whether there are additional impacts.

 Intended outcome: Report

 Deadline: Online CB Friday W1

R2-2200534 NR Multicast loss-less HO enhancements with service continuity Qualcomm Inc discussion Rel-17 NR\_MBS-Core R2-2109902

R2-2200756 Service Continuity for handover from MBS Supporting Node to MBS non-Supporting Node Lenovo, Motorola Mobility discussion Rel-17

R2-2200235 Open Issues on Multicast Service Continuity CATT, CBN discussion Rel-17 NR\_MBS-Core

R2-2200576 Service continuity for multicast mode TD Tech, Chengdu TD Tech discussion Rel-17

R2-2200641 Discussion on Multicast service continuity during mobility Spreadtrum Communications discussion Rel-17

R2-2200816 MBS service continuity and notification for multicast Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

R2-2200828 Mobility and Service continuity for NR Multicast MediaTek inc. discussion Rel-17 NR\_MBS-Core R2-2109548

R2-2200857 Discussion on Mobility with Service Continuity CMCC discussion Rel-17 NR\_MBS-Core

R2-2200978 Multicast Service Continuity Aspects Ericsson discussion Rel-17 NR\_MBS-Core

R2-2201175 Multicast service continuity and discussion on RAN3 LS Intel Corporation discussion Rel-17 NR\_MBS-Core

R2-2201256 Mobility with non-supporting nodes Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core R2-2110955

R2-2201258 Mobility for NR MBS vivo discussion Rel-17 NR\_MBS-Core

R2-2201365 Multicast Service Continuity Samsung discussion Rel-17 NR\_MBS-Core

R2-2200539 Discussion on MBS with conditional handover Futurewei discussion Rel-17 NR\_MBS-Core R2-2110908

R2-2201412 Mobility Between MBS Supporting Nodes ZTE, Sanechips discussion Rel-17 NR\_MBS-Core

R2-2200785 MBS Mobility Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core R2-2109954

Multicast start

Offline + Online

Group Notification - Applicability of PEI/WUS, applicability of short message. Connection establishment - Access Control and cause value, other aspects.

* [AT116bis-e][020][MBS] Multicast Start (LGE)

 Scope: Address open issues related to Multicast start (ref green-marked Open issues R2-2200022), Group Notification - Applicability of PEI/WUS, applicability of short message. Connection establishment - Access Control and cause value

 Intended outcome: Report

 Deadline: Friday W1 for online CB.

R2-2200021 Untreated proposals from offline discussion: [AT116-e][051][MBS] CP continuation Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

R2-2201292 Remaining issues on group notification for multicast session LG Electronics discussion

R2-2201382 Remaining issues of the multicast notification Xiaomi Communications discussion Rel-17 NR\_MBS-Core

R2-2200532 NR MBS control signaling aspects Qualcomm Inc discussion Rel-17 NR\_MBS-Core R2-2109899

R2-2200385 Open issues multicast activation and service continuity of broadcast OPPO discussion Rel-17 NR\_MBS-Core

Multicast PTM PTP additional enhancements

R2-2200386 Discussion on PTM activation-deactivation for MBS OPPO, CMCC, ZTE, Huawei, HiSilicon, SJTU, NERCDTV, Lenovo, Motorola Mobility, Spreadtrum, TCL, Xiaomi, CATT, MediaTek, Qualcomm, Kyocera, Apple, Sharp, China Unicom, CBN, China Telecom, FGI, APT, InterDigital discussion Rel-17 NR\_MBS-Core

R2-2200905 UE based PTM to PTP switch Sony discussion Rel-17 NR\_MBS-Core

R2-2201411 UE initiated mode switch for Multicast ZTE, Sanechips, Kyocera, InterDigital, CMCC, OPPO discussion Rel-17 NR\_MBS-Core

Broadcast MBS interest Indication

* [AT116bis-e][021][MBS] MBS Interest Indication Open Issues (CMCC)

 Scope: Address green-marked Open issues related to MII in R2-2200022, and related tdoc input. Address MII indication handling at handover. Collect comments, identify easy agreements and discussion points.

 Intended outcome: Report

 Deadline: For CB on-line Thursday W1.

R2-2200858 Discussion on MII issues CMCC discussion Rel-17 NR\_MBS-Core

R2-2200759 MII and BWP related configuration Lenovo, Motorola Mobility discussion Rel-17

R2-2200880 Broadcast Service Continuity Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core

R2-2201176 Broadcast service continuity Intel Corporation discussion Rel-17 NR\_MBS-Core

R2-2200398 Broadcast Service Continuity Samsung discussion

R2-2200382 Discussion on MBS interesting indication for delivery mode 2 OPPO discussion Rel-17 NR\_MBS-Core

R2-2201244 Remaining issues of MBS Interest Indication Kyocera discussion Rel-17

R2-2201370 Remaining issues for MII LG Electronics France discussion Rel-17

Broadcast Cell reselection Prioritization

Which info the UE uses to determine what to prioritize: SIB info vs USD info vs MCCH info, Whether there are target cell conditions (presence of SIBx) for prioritizaion, Need for additional neighbor cell info.

* [AT116bis-e][022][MBS] Cell reselection Prioritization (CATT)

 Scope: Address remaining open issues (ref green-marked Open issues R2-2200022), Whether to/how to apply target cell conditions (presence of SIBx) for prioritization, Need for additional neighbor cell info (ref provided tdocs). Which info the UE uses to determine what to prioritize: SIB info vs USD info vs MCCH info (ref provided tdocs),

 Intended outcome: Report

 Deadline: Friday W1 for online CB

R2-2200234 Open Issues on Broadcast Service Continuity CATT, CBN discussion Rel-17 NR\_MBS-Core

R2-2200540 Discussion on priority reselection based on SIBx of the neighbor cells Futurewei discussion Rel-17 NR\_MBS-Core

R2-2200980 Broadcast Service Continuity Ericsson discussion

R2-2201245 Remaining issues of cell reselection procedure for MBS Kyocera discussion Rel-17 R2-2110206

R2-2200577 Service continuity for broadcast mode TD Tech, Chengdu TD Tech discussion Rel-17

MCCH

Change notification, detailed UE behaviour, Acquisition of MCCH, and possibly related SIB handling, whether to support area based MCCH.

* [AT116bis-e][023][MBS] MCCH (LGE)

 Scope: Address the next level of details regarding Change Notification. Open issues on Acquisition of MCCH, and possibly related SIB handling, whether to support area based MCCH.

 Intended outcome: Report

 Deadline: Friday W1

R2-2201291 MCCH information acquisition LG Electronics discussion

R2-2200538 Clarification on details of MCCH change notification via DCI Futurewei discussion Rel-17 NR\_MBS-Core R2-2110907

R2-2200982 Broadcast Notifications Ericsson discussion

R2-2200817 MBS service continuity for broadcast Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

Misc

Provisioning of MBS by SN, other.

R2-2200728 Miscellaneous Aspects of MBS Provisioning Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core R2-2109950

R2-2201118 Control plane aspects of MBS Apple discussion Rel-17 NR\_MBS-Core

#### 8.1.3.2 RRC 38331

Including configuration of and handling of L1.

Open issues, including those listed in the Running CR and/or Rapporteur Open issue list.

* [AT116bis-e][024][MBS] RRC Miscellaneous (Huawei)

 Scope: Take into account R2-2200095 (L1 parameters), R2-2200814, R2-2200815, relevant Open Issues from R2-22000022 (blue-marked and other smaller, if any). Address FFS whether some explicit indication is needed for the UE to know that an RLC entity is configured for PTM transmission. Acknowledge the way MRB bearer configuration is captured in current running CR. Progress offline as much as possible by easy agreements, Identify points for further discussion if any.

 Intended outcome: Report, Endorsed/confirmed updated RRC CR.

 Deadline: Friday W1 (CB online if needed).

Running CR

R2-2200814 38.331 running CR for NR MBS Huawei, HiSilicon draftCR Rel-17 38.331 16.7.0 NR\_MBS-Core R2-2111658

R2-2200815 Discussion on RRC Running CR update with L1 parameters Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

MIsc

R2-2200236 Open Issues on Common RRC Aspects CATT discussion Rel-17 NR\_MBS-Core

R2-2200356 Miscellaneous MBS L3 open issues Intel Corporation discussion Rel-17 NR\_MBS-Core

R2-2200399 Discussion on MBS RRC issues Samsung discussion

R2-2200578 Discussion on L3 open questions for NR MBS TD Tech, Chengdu TD Tech discussion Rel-17

R2-2200640 Discussion on Multicast activation notification Spreadtrum Communications discussion Rel-17

R2-2200775 Discussion on receiving MBS under Scell Lenovo, Motorola Mobility discussion Rel-17

R2-2200818 Discussion on RRC parameters for MCCH and MTCH Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

R2-2201119 Open issues for MBS RRC Running CR Apple discussion Rel-17 NR\_MBS-Core

R2-2201120 L1 configuration for MBS Apple discussion Rel-17 NR\_MBS-Core

R2-2201259 Discussion on MBS Open Issues for RRC CR vivo discussion Rel-17 NR\_MBS-Core

CFR Case E

* [AT116bis-e][025][MBS] CFR Case E (vivo)

 Scope: Address support of CFR Case E (and other case of needed). Treat at least the proposals in R2-2201260. Can also take into account proposals from other papers.

 Intended outcome: Report

 Deadline: Thursday W1 for online CB

R2-2201260 Supporting CFR Case E for RRC IDLE and INACTIVE UE vivo discussion Rel-17 NR\_MBS-Core

#### 8.1.3.3 UE capabilities

Initial discussion on Features / UE caps developed in RAN2, if any. Note that this AI is complementary to AI 8.0.2. This topic may be treated mainly oiffline.

* [AT116bis-e][026][MBS] UE capabilities (MediaTek)

 Scope: Initial discussion on MBS UE capabilities, Identify easy agreements (can be agreed offline), discussion points and points that may need LS to other working group(s). Coordination may be needed between this discussion and the main UE caps discussion.

 Intended outcome: Report

 Deadline: Friday W1 for parts that need concrete action at current meeting by online CB, otherwise EOM.

R2-2200237 Discussions on NR MBS UE Capabilities CATT discussion Rel-17 NR\_MBS-Core

R2-2200357 UE capabilities for Rel-17 MBS Intel Corporation discussion Rel-17 NR\_MBS-Core

R2-2200400 UE capabilities for MBS Samsung discussion

R2-2200531 MBS UE capability for supporting MRBs Qualcomm India Pvt Ltd discussion Rel-17 NR\_MBS\_enh-Core

R2-2200579 UE capabilities for NR MBS TD Tech, Chengdu TD Tech discussion Rel-17

R2-2200819 Discussion on UE capabilities for MBS Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

R2-2200827 Discussion on UE capability for NR MBS MediaTek inc. discussion Rel-17 NR\_MBS-Core

R2-2200874 RAN2 UE Feature List for NR MBS CMCC discussion Rel-17 NR\_MBS-Core

R2-2200906 MBS BWP UE capability and MBS resources Sony discussion Rel-17 NR\_MBS-Core

R2-2200979 MBS Capabilities Ericsson discussion

R2-2201261 Discussion on UE capabilities for MBS vivo discussion Rel-17 NR\_MBS-Core

R2-2201380 Discussion on MBS support on MRDC Xiaomi Communications discussion Rel-17 NR\_MBS-Core

R2-2201384 UE capability for ROHC and EHC Xiaomi Communications discussion Rel-17 NR\_MBS-Core

### 8.1.4 User Plane (MAC, PDCP)

Open issues, including those listed in the 38321 and 38323 Running CRs and/or Rapporteur Open issue list.

* [AT116bis-e][027][MBS] PDCP/RLC initial variables (xiaomi)

 Scope: HFN applicability / initialization for both multicast and broadcast, how to set RLC initial values.

 Intended outcome: Report

 Deadline: Friday W1 (attempt offline agreement, can CB if needed W2)

* [AT116bis-e][028][MBS] MAC Open Issues (OPPO)

 Scope: Address MAC related open issues, as captured in R2-2200022 and R2-2111414 (running CR). Take into account input to this meeting. Identify (easy) agreements, points for discussion etc.

 Intended outcome: Report

 Deadline: First Deadline Friday W1 (CB online to some important point)

R2-2200758 Discussion on initial value of HFN Lenovo, Motorola Mobility discussion Rel-17

R2-2200825 Discussion on initial HFN and PDCP state variables MediaTek inc. discussion Rel-17 NR\_MBS-Core

R2-2201415 Discussion on HFN initialization of NR MBS ZTE, Sanechips discussion Rel-17 NR\_MBS-Core

General

R2-2200238 Consideration on UP Remaining Issues of MBS CATT discussion Rel-17 NR\_MBS-Core

R2-2200346 Discussion on user plane open issues Huawei, HiSilicon discussion Rel-17 NR\_MBS-Core

R2-2200358 Remaining issues of MBS user plane Intel Corporation discussion Rel-17 NR\_MBS-Core

R2-2201262 Remaining UP issues for Rel-17 MBS vivo discussion Rel-17 NR\_MBS-Core

R2-2201366 User Plane Aspects for MBS Samsung discussion Rel-17 NR\_MBS-Core

R2-2200541 L2 ARQ by PDCP for PTM Futurewei, Qualcomm Inc., Intel, Kyocera, NEC, Samsung, Ericsson discussion Rel-17 NR\_MBS-Core R2-2109849

MAC

R2-2200314 Consideration on MBS power saving Shanghai Jiao Tong University discussion

R2-2200384 Discussion on open issues in MAC running CR OPPO discussion Rel-17 NR\_MBS-Core

R2-2200533 NR Multicast DRX aspects Qualcomm India Pvt Ltd discussion Rel-17 NR\_MBS-Core R2-2109901

R2-2200735 Keeping UE in the same active BWP during multicast session ASUSTeK discussion Rel-17 NR\_MBS-Core R2-2111000

R2-2200757 Remaining issues on multicast DRX Lenovo, Motorola Mobility discussion Rel-17

R2-2200859 Discussion on MAC remaining issues CMCC discussion Rel-17 NR\_MBS-Core

R2-2200826 Discussion on DRX related issues for MBS MediaTek inc. discussion Rel-17 NR\_MBS-Core

R2-2200981 Aspects on Scheduling Ericsson discussion Rel-17 NR\_MBS-Core

R2-2201121 Open issues for MAC Running CR Apple discussion Rel-17 NR\_MBS-Core

R2-2201414 DRX for NR Multicast ZTE, Sanechips discussion Rel-17 NR\_MBS-Core

R2-2201583 Discussion on MAC open issues for NR MBS LG Electronics Inc. discussion Rel-17 NR\_MBS-Core

PDCP

R2-2200383 Discussion on Header Compressionfor MBS OPPO discussion Rel-17 NR\_MBS-Core

R2-2200580 Open issues for user plane for NR MBS TD Tech, Chengdu TD Tech discussion Rel-17

R2-2200722 MBS Reliability Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MBS-Core R2-2109949

R2-2200860 Discussion on PDCP remaining issues CMCC discussion Rel-17 NR\_MBS-Core

R2-2201354 MBS 38.323 remaining issue TCL Communication Ltd. discussion

R2-2201381 Remaining issues of MBS PDCP Xiaomi Communications discussion Rel-17 NR\_MBS-Core

R2-2201383 Slow-moving PDCP reception window issue Xiaomi Communications discussion Rel-17 NR\_MBS-Core

R2-2201584 Discussion on PDCP open issues for NR MBS LG Electronics Inc. discussion Rel-17 NR\_MBS-Core

R2-2200829 Remaining issues of PTP PTM switch MediaTek inc. discussion Rel-17 NR\_MBS-Core

## 8.2 MR DC/CA further enhancements

(LTE\_NR\_DC\_enh2-Core; leading WG: RAN2; REL-17; WID: RP-201040)

Time budget: 1 TU

Tdoc Limitation: 5 tdocs

Email max expectation: 4 threads

No documents should be submitted to 8.2. Please submit to.8.2.x

Contributions should illustrate the Stage-3 details of the proposals (e.g. in an Annex containing TP against the running CRs).

### 8.2.1 Organizational, Requirements and Scope

Including LSs, any rapporteur inputs and results of running CR email discussions [210]-[215]

Including rapporteur input on remaining open issues needed to close the WI.

R2-2200081 LS on Rel-17 MAC-CE impacts (R1-2112842; contact: Nokia) RAN1 LS in Rel-17 NR\_feMIMO, NR\_ext\_to\_71GHz, NR\_IIOT\_URLLC\_enh, NR\_NTN\_solutions, NR\_pos\_enh, NR\_redcap, NR\_UE\_pow\_sav\_enh, NR\_cov\_enh, NR\_IAB\_enh, NR\_SL\_enh, NR\_MBS, NR\_DSS, LTE\_NR\_DC\_enh2, LTE\_NBIOT\_eMTC\_NTN, NB\_IOTenh4\_LTE\_eMTC6, LTE\_terr\_bcast\_bands\_part1 To:RAN2 Cc:RAN4

R2-2200096 LS on triggering signalling of temporary RS for SCell activation (R1-2112983; contact: Huawei) RAN1 LS in Rel-17 LTE\_NR\_DC\_enh2 To:RAN2 Cc:RAN4

R2-2201089 Introduction of SCG deactivation Huawei, HiSilicon draftCR Rel-17 38.331 16.7.0 LTE\_NR\_DC\_enh2-Core Late

R2-2201090 Introduction of SCG deactivation Huawei, HiSilicon draftCR Rel-17 36.331 16.7.0 LTE\_NR\_DC\_enh2-Core Late

R2-2201091 Open issues for MR DC/CA further enhancements Huawei, HiSilicon other Rel-17 LTE\_NR\_DC\_enh2-Core Late

R2-2201397 [Post116-e][213][R17 DCCA] Running MAC CR for SCG deactivation (vivo) vivo CR Rel-17 38.321 16.7.0 1182 - B LTE\_NR\_DC\_enh2-Core

R2-2201561 Running 37.340 CR for SCG deactivation ZTE Corporation draftCR Rel-17 37.340 16.8.0 B LTE\_NR\_DC\_enh2-Core

### 8.2.2 Efficient activation / deactivation mechanism for one SCG and SCells

No documents should be submitted to 8.2.2. Please submit to.8.2.2.x

#### 8.2.2.1 Deactivation of SCG and UE behaviour in deactivated SCG

Including outcome of [Post116-e][225][R17 DCCA] Remaining details for SCG deactivation (Huawei)

including discussion on essential aspects of BFD/BFR and RRM/RLM that were not covered by the email discussion [Post116-e][225]

Including discussion on any remaining UP details of SCG deactivation (if any) that were not covered by the email discussion [Post116-e][225]

R2-2200057 [Post116-e][225][R17 DCCA] Remaining details for SCG deactivation Huawei (rapporteur) discussion Rel-17

R2-2200308 QoS flow remapping during SCG deactivation Fujitsu discussion Rel-17 LTE\_NR\_DC\_enh2-Core R2-2109708

R2-2200380 Considerations on UE measurement and reporting in deactivated SCG KDDI Corporation discussion Rel-17

R2-2200387 SCG deactivation indication when resuming from RRC\_INACTIVE due to MO data OPPO discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2200583 DC power sharing for deactivated SCG Samsung Electronics Polska discussion LTE\_NR\_DC\_enh2-Core

R2-2200601 Partial MAC reset upon SCG deactivation Samsung Electronics Polska discussion LTE\_NR\_DC\_enh2-Core

R2-2200604 Discussion on UE behaviour when SCG is deactivated ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2200647 Remaining issues on deactivation of SCG NTT DOCOMO INC. discussion Rel-17

R2-2200771 Discussion on SCG deactivation Lenovo, Motorola Mobility discussion Rel-17

R2-2200881 Open issues in deactivation of SCG Nokia, Nokia Shanghai Bell discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201075 UE behavior in deactivated SCG and SCG deactivation Qualcomm Incorporated discussion Rel-17

R2-2201092 UE requested SCG deactivation Huawei, HiSilicon discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201248 Discussion on SCG Deactivation and UE Behavior CATT discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201296 CSI-RS reporting for deactivated SCG MediaTek Inc. discussion

R2-2201318 Remaining issues for UE behaviour in deactivated SCG SHARP Corporation discussion Rel-17 LTE\_NR\_DC\_enh2-Core R2-2111014

R2-2201319 Remaining issues for MAC procedure in deactivated SCG SHARP Corporation discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201342 Discussion on updating TCI states NTT DOCOMO, INC. discussion Rel-17

R2-2201416 Partial MAC reset upon SCG deactivation DENSO CORPORATION discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201563 Deactivation of SCG and UE behaviour in deactivated SCG Ericsson discussion LTE\_NR\_DC\_enh2-Core

R2-2201574 UE Measurements in SCG Deactivation LG Electronics discussion Rel-17 LTE\_NR\_DC\_enh2-Core R2-2111017

#### 8.2.2.2 Activation of deactivated SCG

Including discussion on UP details of SCG activation, e.g. how the UL data is sent via the MCG leg for split bearers which SCG is deactivated, how UE indicates it has UL data available for SCG/split bearers, etc.

Including discussion on whether to support MAC CE-based SCG (de)activation in Rel-17

R2-2200542 Futher discussion on UE initiated SCG fast activation Futurewei discussion Rel-17 LTE\_NR\_DC\_enh2-Core R2-2110909

R2-2200584 PHR issues for SCG activation Samsung Electronics Polska discussion LTE\_NR\_DC\_enh2-Core

R2-2200605 Activation of deactivated SCG ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2200612 UL data arrival and MCG link recovery NEC discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2200637 Discussion on activation of deactivated SCG Spreadtrum Communications discussion Rel-17

R2-2200649 UP details of deactivated SCG activation Transsion Holdings discussion Rel-17

R2-2200772 Discussion on SCG activation Lenovo, Motorola Mobility discussion Rel-17

R2-2200882 Open issues in activation of SCG Nokia, Nokia Shanghai Bell discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2200895 Remaining issues on SCG (de)activation CMCC discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201060 Activation of deactivated SCG Qualcomm Incorporated discussion Rel-17

R2-2201093 UE initiated SCG activation Huawei, HiSilicon discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201097 Reply LS on efficient activation/de-activation mechanism for one SCG (R2-2109368/R4-2115440) Huawei, HiSilicon discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201117 On the non-essentiality of MAC CE based SCG deactivation Apple discussion LTE\_NR\_DC\_enh2-Core

R2-2201249 Considerations on Activation of Deactivated SCG CATT discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201362 Discussion on SCG activation and deacitvation LG Electronics Inc. discussion LTE\_NR\_DC\_enh2-Core

R2-2201393 Activation of deactivated SCG vivo discussion LTE\_NR\_DC\_enh2-Core

R2-2201431 SCG/split bearer handling upon SCG deactivation and SCell state upon SCG activation Sharp discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201538 Conditional reconfiguration execution while SCG is deactivated Sharp discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201562 Efficient SCG activation Ericsson discussion LTE\_NR\_DC\_enh2-Core

R2-2201592 UP details of deactivated SCG activation Transsion Holdings discussion Withdrawn

#### 8.2.2.3 Other aspects of SCG activation/deactivation

Including essential parts of SCG activation/deactivation that do not fit under other AIs.

Including discussion on MCG link recovery via deactivated SCG (with CR to illustrate the needed Stage-3 details)

IThis agenda item may be deprioritized in this meeting .

R2-2200388 Fast MCG recovery based on SCG deactivation OPPO discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2200896 Considerations for Fast MCG link recovery with deactivated SCG CMCC discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201073 Other aspects of SCG activation/deactivation Qualcomm Incorporated discussion Rel-17

R2-2201115 Simple MCG recovery procedure using deactivated SCG for Rel-17 Apple discussion LTE\_NR\_DC\_enh2-Core R2-2110092

R2-2201116 CR TP for MCG recovery procedure using deactivated SCG for Rel-17 Apple discussion LTE\_NR\_DC\_enh2-Core

R2-2201295 Further discussion on TCI State indication in RRC MediaTek Inc. discussion R2-2111192

R2-2201317 Deactivation of SCG LG Electronics Finland discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201333 Discussion on SCG (de)activation NTT DOCOMO, INC. discussion Rel-17

R2-2201394 Fast MCG recovery via deactivated SCG vivo discussion LTE\_NR\_DC\_enh2-Core

R2-2201432 Fast MCG link recovery via deactevated SCG Sharp discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201575 Rest issues of SCG Activation LG Electronics discussion Rel-17 LTE\_NR\_DC\_enh2-Core R2-2111018

### 8.2.3 Conditional PSCell change / addition

No documents should be submitted to 8.2.3. Please submit to.8.2.3.x

#### 8.2.3.1 CPAC procedures from network perspective

Including discussion on network aspects of CPAC that require further interaction with RAN3

Including decision on the name of the new inter-node RRC message for CPAC

R2-2200361 Discussion on the CG-CandidateList Google Inc. discussion LTE\_NR\_DC\_enh2-Core

R2-2200362 Support modification and cancellation of C-PSCells in the CG-CandidateList Google Inc. draftCR Rel-17 38.331 16.7.0 B LTE\_NR\_DC\_enh2-Core

R2-2200589 Discussion on CPAC procedures from NW perspective vivo discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2200613 Skip response from S-SN in SN-initiated CPC NEC discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2200773 Discussion on CPAC from NW perspective Lenovo, Motorola Mobility discussion Rel-17

R2-2200923 Remaining issues on CPAC procedure ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2200924 Further consideration on CPAC procedure ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201000 CPAC network procedures Ericsson discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201072 CPAC procedures from network perspective Qualcomm Incorporated discussion Rel-17

R2-2201081 Solving open issues for Rel-17 CPAC Nokia, Nokia Shanghai Bell discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201250 Discussion on CPAC from NW perspective CATT discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201305 CPAC procedure for SCG update Samsung R&D Institute UK discussion

#### 8.2.3.2 CPAC procedures from UE perspective

Including discussion on UE behaviour upon CPAC execution, e.g. does UE inform network of the triggering and how?

R2-2201001 UE procedures and signalling for CPAC Ericsson discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201082 Clarifications to the issues found in CPAC running CRs Nokia, Nokia Shanghai Bell discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201094 UE behaviour upon CPAC execution Huawei, HiSilicon discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201112 Text proposal to CPAC RRC running CR Apple discussion LTE\_NR\_DC\_enh2-Core

R2-2201251 Remaining issues on CPAC from UE perspective CATT discussion Rel-17 LTE\_NR\_DC\_enh2-Core

#### 8.2.3.3 Other CPAC aspects

This agenda item may use a summary document (decision to be made based on submitted tdocs).

Including discussion on whether it's possible to specify CPAC failure handling in Rel-17 (with CR to illustrate the needed Stage-3 details)

Including discussion on whether it's possible to specify CPAC co-existence with CHO in Rel-17 (with CR to illustrate the needed Stage-3 details)

This agenda item may be deprioritized in this meeting .

R2-2200341 CPC-based SCG RLF handling ITRI discussion LTE\_NR\_DC\_enh2-Core R2-2110282

R2-2200590 Discussion on other aspects for CPAC vivo discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2200614 Further discussion on Co-existence of CHO and CPAC NEC discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2200615 CPA with SN-terminated MCG bearer configuration NEC discussion Rel-17 LTE\_NR\_DC\_enh2-Core R2-2110662

R2-2200774 Miscellaneous issues on CPAC Lenovo, Motorola Mobility discussion Rel-17

R2-2200897 Combination of CPAC and CHO CMCC discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2200925 Discussion on coexistence of CHO and CPAC ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201074 Other CPAC aspects Qualcomm Incorporated discussion Rel-17

R2-2201210 Other issues on CPAC LG Electronics discussion LTE\_NR\_DC\_enh2-Core

R2-2201252 Discussion on CPAC Failure Handling and CPAC Co-existence with CHO CATT discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201477 Discussion on CPAC failure handling NTT DOCOMO INC. discussion

### 8.2.4 Temporary RS for SCell activation

Including concrete proposals (i.e. TPs) on MAC and RRC details for TRS-based SCell activation

Including discussion on what is configured in RRC and what is indicated in the MAC CE, how to handle Scell activation when some SCells are configured with TRS and others are not

R2-2200389 Discussion on TRS activation for fast SCell activation OPPO discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2200390 Introduction of TRS based SCell activation-38321 OPPO CR Rel-17 38.321 16.7.0 1181 - B LTE\_NR\_DC\_enh2-Core

R2-2200391 Introduction of TRS based SCell activation-38331 OPPO draftCR Rel-17 38.331 16.7.0 B LTE\_NR\_DC\_enh2-Core

R2-2200543 Discussion on TRS for fast SCell activation Alt1 vs Alt2 Futurewei discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2200582 Leftover issues for TRS based SCell activation Samsung Electronics Polska discussion LTE\_NR\_DC\_enh2-Core

R2-2200883 Temporary RS activation Nokia, Nokia Shanghai Bell discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201041 temporary RS for SCell activation Ericsson discussion

R2-2201095 MAC CE and RRC signalling for efficient SCell activation Huawei, HiSilicon, Samsung, vivo, LG Electronics discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201395 Discussion on Temporary RS activation for fast SCell activation vivo discussion LTE\_NR\_DC\_enh2-Core

### 8.2.5 UE capabilities

This agenda item may use a summary document (decision to be made based on submitted tdocs).

Including discussion on RAN2 aspects of UE capabilities for SCG deactivation, CPAC and temporary RS.

If changes are proposed against the baseline endorsed in previous meeting, the proposals should illustrate the differences to the baseline illustrated in R2-2109676.

Including discussion on condPSCellChange-r16 as the Prerequisite for R17 MN-initiated CPC, reuse of R15 RLF/BFD UE capabilities for RLF/BFD monitoring on deactivated SCG, support of RLM/BFD monitoring on deactivated SCG as the Prerequisite for Rachless SCG activation, separate capabilities for Activation/Deactivation of SCG in Resume and Reconfiguration cases, etc.

This agenda item may be deprioritized in this meeting.

R2-2200275 Discussion on remaining issues on DCCA UE capabilities Intel Corporation discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2200276 Draft 331 CR for DCCA UE capabilities Intel Corporation draftCR Rel-17 38.331 16.7.0 B LTE\_NR\_DC\_enh2-Core

R2-2200277 Draft 306 CR for DCCA UE capabilities Intel Corporation draftCR Rel-17 38.306 16.7.0 B LTE\_NR\_DC\_enh2-Core

R2-2201096 UE capabilities Huawei, HiSilicon discussion Rel-17 LTE\_NR\_DC\_enh2-Core

R2-2201297 Discussion on CPAC Capabilities MediaTek Inc. discussion

## 8.3 Multi SIM

(LTE\_NR\_MUSIM-Core; leading WG: RAN2; REL-17; WID: RP-212610)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 4 threads

Contributions should illustrate the Stage-3 details of the proposals (e.g. in an Annex containing TP against the running CRs).

### 8.3.1 Organizational, Requirements and Scope

Including LSs, any rapporteur inputs and results of running CR email discussions [233]-[236]

Including rapporteur input on remaining open issues needed to close the WI.

R2-2200132 Reply LS on gap handling for MUSIM (R4-2120342; contact: vivo) RAN4 LS in Rel-17 LTE\_NR\_MUSIM-Core To:RAN2 Cc:RAN

R2-2200144 LS on Paging Cause Indication for Voice Service Supported in RRC Inactive assistance information (S2-2109303; contact: Sony) SA2 LS in Rel-17 MUSIM To:RAN3 Cc:RAN2

R2-2200652 Running LTE RRC CR for MUSIM Samsung Electronics Co., Ltd draftCR Rel-17 36.331 16.7.0 B LTE\_NR\_MUSIM-Core

R2-2200800 Running NR RRC CR for MUSIM vivo draftCR Rel-17 38.331 16.7.0 LTE\_NR\_MUSIM-Core

R2-2200801 Remianing issue list vivo other Rel-17 LTE\_NR\_MUSIM-Core

R2-2201485 Running CR to 38300 for Multi-USIM devices support Ericsson draftCR Rel-17 38.300 16.8.0 B LTE\_NR\_MUSIM-Core

R2-2201486 Running CR to 36300 for Multi-USIM devices support Ericsson draftCR Rel-17 36.300 16.7.0 B LTE\_NR\_MUSIM-Core

R2-2201490 Discussion on the remaining FFS in TS 36.300 and 38.300 Ericsson, Samsung discussion

### 8.3.2 Paging collision avoidance

This agenda item may be deprioritized in this meeting.

Including discussion on RAN2 aspects of paging collision avoidance

R2-2200414 SI Change Lenovo, Motorola Mobility discussion LTE\_NR\_MUSIM-Core

R2-2200470 Remaining issues on 36.304 running CR China Telecommunications, Samsung discussion Rel-17

R2-2200522 Remaining issues of Network switching for MUSIM China Telecom discussion Rel-17 LTE\_NR\_MUSIM-Core

R2-2200571 Alternative IMSI calculation for paging collision avoidance NEC discussion Rel-17 LTE\_NR\_MUSIM-Core

R2-2200802 Remaining issue for EPS Paging Collision avoidance vivo discussion Rel-17 LTE\_NR\_MUSIM-Core

### 8.3.3 UE notification on network switching for multi-SIM

Including discussion on MUSIM gaps that are not discussed as part of the common measurement gap agenda, e.g. remaining details for periodic/aperiodic gaps, how the gaps are released (via explicit signalling as implicit release is not supported), whether UE is allowed to update UAI after cell reselection in NW B or handover in NW A,

Including Stage-3 details of "configured time" (e.g. how to configure UE to always wait for network response)

Including discussion on AS and NAS solution interactions and paging filtering

R2-2200211 Remaining issues on network switching for MUSIM Samsung Electronics Co., Ltd discussion Rel-17 LTE\_NR\_MUSIM-Core

R2-2200230 Remaining Details for Periodic and Aperiodic Gaps OPPO discussion Rel-17 LTE\_NR\_MUSIM-Core

R2-2200231 Remaining Details on MUSIM Assistance Information for Leaving Case OPPO discussion Rel-17 LTE\_NR\_MUSIM-Core

R2-2200359 Remaining open issues on network switching for MUSIM Intel Corporation discussion Rel-17 LTE\_NR\_MUSIM-Core

R2-2200489 Configuration of MUSIM Gaps Qualcomm Incorporated discussion

R2-2200490 Further details of network switching for Multi-SIM Qualcomm Incorporated discussion

R2-2200572 Remaining issues on scheduling gap for network switching NEC discussion Rel-17 LTE\_NR\_MUSIM-Core

R2-2200631 UE indication on switching Spreadtrum Communications discussion Rel-17

R2-2200632 Busy indication transmission Spreadtrum Communications discussion Rel-17

R2-2200671 On remaining issues for MUSIM Gap configuration Nokia, Nokia Shanghai Bells discussion Rel-17

R2-2200672 On remaining issues for switching notification for leaving RRC connection Nokia, Nokia Shanghai Bells discussion Rel-17

R2-2200736 Interaction between NAS and AS for network switching ASUSTeK discussion Rel-17 LTE\_NR\_MUSIM-Core R2-2111001

R2-2200737 Configured time for network switching ASUSTeK discussion Rel-17 LTE\_NR\_MUSIM-Core

R2-2200754 Remaining issues for switching notification and busy indication Lenovo, Motorola Mobility discussion Rel-17

R2-2200803 Remaining open issues on MUSIM Switching vivo other Rel-17 LTE\_NR\_MUSIM-Core

R2-2200904 Remaining issues for NW switching with leaving RRC\_CONNECTED Huawei, HiSilicon discussion Rel-17

R2-2200920 Remaining issues for NW switching without leaving RRC\_CONNECTED Huawei, HiSilicon discussion Rel-17

R2-2200950 Discussion on RAN4 Reply LS on MUSIM gaps Samsung R&D Institute India discussion

R2-2201201 MUSIM Signaling aspects for Scheduling gap handling Apple discussion Rel-17 LTE\_NR\_MUSIM-Core

R2-2201215 Release of MUSIM Gap Sharp discussion

R2-2201216 RRC Connection release request procedure for MUSIM and power saving Sharp discussion

R2-2201228 Remain issues for network switching with leaving RRC\_CONNECTED SHARP Corporation discussion Rel-17 LTE\_NR\_MUSIM-Core

R2-2201233 Further Consideration on the Scheduling Gap ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_MUSIM-Core

R2-2201234 Consideration on the Switching with Leaving Connected State ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_MUSIM-Core

R2-2201315 Signalling design on busy indication procedure DENSO CORPORATION discussion LTE\_NR\_MUSIM-Core R2-2111186

R2-2201316 Further details on network switching notification MediaTek Inc. discussion R2-2111222

R2-2201369 Remaining issues for MUSIM gap configuration LG Electronics France discussion Rel-17

R2-2201481 Remaining Issues for MUSIM Network Switching Charter Communications, Inc discussion

R2-2201482 Discussion on switchover procedure without leaving RRC\_CONNECTED state Ericsson discussion

R2-2201483 Discussion on switchover procedure for leaving RRC\_CONNECTED state Ericsson discussion

R2-2201576 Paging filtering when AS-based leaving LG Electronics discussion Rel-17 LTE\_NR\_MUSIM-Core R2-2111022

R2-2201577 Considerations on Busy Indication LG Electronics discussion Rel-17 LTE\_NR\_MUSIM-Core

R2-2201633 Measurement Gaps pen issues Rakuten Mobile, Inc discussion Rel-17

### 8.3.4 Paging with service indication

This agenda item may be deprioritized in this meeting.

Including remaining details of the paging cause value support and if additional feedback to SA2/CT1 is needed (if any)

### 8.3.5 UE capabilities and other aspects

This agenda item may use a summary document (decision to be made based on submitted tdocs).

Including discussion on UE capabilities related to RAN2-defined features for MUSIM, e.g. capabilities for periodic/aperiodic gaps and capability bit for UE leaving RRC\_CONNECTED state.

Including discussion on any other essential aspects of MUSIM that need to be resolved during Rel-17.

If changes are proposed against the baseline endorsed in previous meeting, the proposals should illustrate the differences to the baseline illustrated in R2-2109625.

R2-2200210 UE capabilities and other essential aspects for MUSIM Samsung Electronics Co., Ltd discussion Rel-17 LTE\_NR\_MUSIM-Core

R2-2200232 UE Capabilities for MUSIM OPPO discussion Rel-17 LTE\_NR\_MUSIM-Core

R2-2200360 Remaining issues on UE and network capabilities for MUSIM Intel Corporation discussion Rel-17 LTE\_NR\_MUSIM-Core

R2-2200695 UE capability for MUSIM gaps Qualcomm Incorporated discussion

R2-2200804 Multi-USIM related UE capabilities vivo discussion Rel-17 LTE\_NR\_MUSIM-Core

R2-2200838 Further discussion on UE capabilities for MUSIM operation Nokia Italy discussion Rel-17

R2-2200921 Discussion on UE capability for MUSIM Huawei, HiSilicon discussion Rel-17 LTE\_NR\_MUSIM-Core R2-2110543

R2-2201202 MUSIM UE capability aspects Apple discussion Rel-17 LTE\_NR\_MUSIM-Core

R2-2201203 Additional issues related to MUSIM - Aspects of MUSIM RRC Band Conflict, Processing Delay and Caller ID retrieval requirements Apple discussion Rel-17 LTE\_NR\_MUSIM-Core

R2-2201235 Consideration on the UE Capability for the MUSIM ZTE Corporation, Sanechips discussion Rel-17 LTE\_NR\_MUSIM-Core

R2-2201484 UE capabilities for Multi-USIM Ericsson discussion

## 8.4 NR IAB enhancements

(NR\_IAB\_enh-Core; leading WG: RAN2; REL-17; WID: RP-211548)

Time budget: 1 TU

Tdoc Limitation: 5 tdocs

Email max expectation: 4-5 threads

RP 92e: DAPS-like solutions to be deprioritized.

RP 93e: Enhancements to improve topology-wide fairness and multi-hop latency to be deprioritized. RAN2-led efforts on enhancements to LCG-range extension, RLF indications and local rerouting to continue.

### 8.4.1 Organizational

Including work plan and any other rapporteur input.

LS in

R2-2200065 Reply LS on Inter-donor migration (R1-2108529; contact: Huawei) RAN1 LS in Rel-17 NR\_IAB\_enh-Core To:RAN3, RAN4 Cc:RAN2

R2-2200094 LS on range of power control parameters for eIAB (R1-2112973; contact: Qualcomm) RAN1 LS in Rel-17 NR\_IAB\_enh To:RAN4 Cc:RAN2

R2-2200100 LS on BAP- and RRC-related agreements from RAN3#113-e (R3-214476; contact: Ericsson) RAN3 LS in Rel-17 NR\_IAB\_enh-Core To:RAN2

R2-2200115 Reply LS on inter-donor migration (R4-2115354; contact: ZTE) RAN4 LS in Rel-17 NR\_IAB\_enh-Core To:RAN3 Cc:RAN1, RAN2

CRs

R2-2200805 Running CR to 37.340 for eIAB vivo draftCR Rel-17 37.340 16.8.0 NR\_IAB-Core

R2-2201303 Running CR of TS 38.340 for eIAB Option1 Huawei, HiSilicon discussion Rel-17 NR\_IAB\_enh-Core

R2-2201304 Running CR of TS 38.340 for eIAB Option2 Huawei, HiSilicon discussion Rel-17 NR\_IAB\_enh-Core

R2-2201527 Running CR to 38.321 on Integrated Access and Backhaul for NR Rel-17 Samsung Electronics GmbH CR Rel-17 38.321 16.7.0 1171 - B NR\_IAB\_enh-Core R2-2110453

R2-2201613 Running CR to 38.331 on NR IAB enhancements Ericsson CR Rel-17 38.331 16.7.0 2811 - B NR\_IAB\_enh-Core R2-2111604

Planning

R2-2200194 Updated Rel-17 IAB Workplan Qualcomm Incorporated, Samsung (WI rapporteurs) Work Plan Rel-17 NR\_IAB\_enh R2-2109939

R2-2200008 Remaining open issues for eIAB Qualcomm (WI Rapporteur) discussion NR\_IAB\_enh Revised

R2-2200023 Remaining open issues for eIAB Qualcomm (WI Rapporteur) discussion NR\_IAB\_enh R2-2200008

### 8.4.2 Open Issues

#### 8.4.2.1 RLF indication

Open issues, e.g. Whether a type-2 indication by dual-connected node can be triggered when (1) the node detects BH RLF on any BH link and (2) it cannot perform re-routing for affected traffic, Whether a type-2 indication may carry info such as available BAP routing ID, Whether a type-2 indication should be (conditionally) propagated (e.g., if no alternative path is available), For transmission of type-3 indication, whether to specify a condition for the success of re-establishment, e.g., successful transmission of RRC Reestablishment Complete.

R2-220xxxx Summary of 8.4.2.1 RLF indication (LGE) LGE

R2-2200196 Open isuses on IAB RLF indications Qualcomm Incorporated discussion Rel-17 NR\_IAB\_enh

R2-2200323 Discussion on RLF Indications CATT discussion Rel-17 NR\_IAB\_enh-Core

R2-2200351 Open issues on IAB-node RLF indication Intel Corporation discussion Rel-17 NR\_IAB\_enh-Core

R2-2200405 Discussion on left issue of Type-2/3 RLF indication NEC discussion Rel-17 NR\_IAB\_enh-Core

R2-2200562 Control plane behavior at receiving BH RLF detection indication Fujitsu discussion Rel-17 NR\_IAB\_enh-Core

R2-2200563 A mechanism to avoid a storm of BH RLF indication Fujitsu discussion Rel-17 NR\_IAB\_enh-Core

R2-2200564 RLF indication and flow control feedback from boundary node Fujitsu discussion Rel-17 NR\_IAB\_enh-Core

R2-2200806 Remaining Issues of BH RLF vivo discussion Rel-17 NR\_IAB-Core

R2-2200837 Discussion on RLF indication enhancements CANON Research Centre France discussion Rel-17 NR\_IAB\_enh-Core R2-2110344

R2-2201051 RLF indications and re-routingenhancements Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IAB\_enh-Core

R2-2201242 Remaining issues of BH RLF Indications for eIAB Kyocera discussion Rel-17 R2-2110204

R2-2201301 RLF indication and local re-routing based on flow control Huawei, HiSilicon discussion Rel-17 NR\_IAB\_enh-Core

R2-2201306 RLF indication related issues Samsung R&D Institute UK discussion

R2-2201349 Remaining issues on RLF indication ZTE, Sanechips discussion Rel-17

R2-2201388 Open Issues for RLF indications for dual-connected IAB nodes Futurewei Technologies discussion

R2-2201468 Resolving open issues on BH RLF indications LG Electronics discussion Rel-17

R2-2201607 On Local Routing and Type 2/3 RLF Handling Ericsson discussion NR\_IAB\_enh-Core

#### 8.4.2.2 CP-UP separation

Open Issues, e.g. Whether, for IAB-MT’s RRC message that carries F1-C/F1-C-related traffic, the IAB-MT uses split SRB2 via SCG in scenario 2 if f1c-TransferPath-r17 indicates ‘SCG’ or ‘both’ regardless of the primaryPath configuration, Whether, for IAB-MT’s RRC message that contains both F1-C traffic and other information unrelated to IAB, the IAB-MT follows the configuration of F1-C transfer path (if configured) to transmit this RRC message

R2-2201679 [Pre116bis][002][eIAB] Summary of 8.4.2.2 CP-UP separation\_v00 Ericsson

R2-2200324 Leftovers of CP-UP Separation CATT discussion Rel-17 NR\_IAB\_enh-Core

R2-2200565 Remaining issues on CP-UP separation Fujitsu discussion Rel-17 NR\_IAB\_enh-Core

R2-2200807 Remainings issues on CP-UP separation vivo discussion Rel-17 NR\_IAB-Core

R2-2201302 F1 over NR access link Huawei, HiSilicon discussion Rel-17 NR\_IAB\_enh-Core

R2-2201308 CP-UP separation and other topology adaptation issues Samsung R&D Institute UK discussion

R2-2201350 Discussion on CP/UP spearation ZTE, Sanechips discussion Rel-17

R2-2201428 Remaining issues on CP-UP separation LG Electronics Inc. discussion Rel-17 NR\_IAB\_enh-Core

R2-2201608 Remaining Issues Related to CP/UP Separation in IAB Network Ericsson discussion NR\_IAB\_enh-Core

#### 8.4.2.3 BAP routing

Open Issues, e.g. Inter-topology routing: Configurations of routing, channel mapping and header-rewriting tables, how would the topology be indicated for each of these configurations? Implicitly or explicitly? If implicitly, based on what information carried in the configuration? Inter-topology routing: Additional details of the introduced two new BAP processing steps at the boundary node: (1) determining whether descendant traffic is intra- or inter-topology traffic, and (2) execution of BAP header-rewriting.

R2-2201669 [Pre116bis][003][eIAB] Summary of 8.4.2.3 BAP routing (Qualcomm) Qualcomm

R2-2200195 Open issues on BAP routing Qualcomm Incorporated discussion Rel-17 NR\_IAB\_enh

R2-2200325 On BAP Routing and Rerouting CATT discussion Rel-17 NR\_IAB\_enh-Core

R2-2200352 Open issues on BAP routing for inter-donor topology routing Intel Corporation discussion Rel-17 NR\_IAB\_enh-Core

R2-2200566 Discussion on the routing issues Fujitsu discussion Rel-17 NR\_IAB\_enh-Core

R2-2200760 Discussion on remaining issues for IAB rerouting Lenovo, Motorola Mobility discussion Rel-17

R2-2200808 Remaining Issues of Intra/Inter-Topology Routing vivo discussion Rel-17 NR\_IAB-Core

R2-2200842 Discussion on the configuration of a boundary node CANON Research Centre France discussion Rel-17 NR\_IAB\_enh-Core

R2-2200907 Introduce cost factor in local re-routing Sony discussion Rel-17 NR\_IAB\_enh-Core R2-2110348

R2-2200918 BAP Header Rewriting Configuration Sony discussion Rel-17 NR\_IAB\_enh-Core

R2-2201052 IAB inter-CU (re)routing issues Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IAB\_enh-Core

R2-2201053 IAB CP-UP separation remaining issues Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IAB\_enh-Core

=> Revised in R2-2201651

R2-2201651 IAB CP-UP separation remaining issues Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IAB\_enh-Core

R2-2201243 Details of routing and re-routing enhancements for eIAB Kyocera discussion Rel-17

R2-2201299 Leftover issues for BAP header rewriting based (re)routing Huawei, HiSilicon discussion Rel-17 NR\_IAB\_enh-Core

R2-2201322 Discussion on the inter-CU routing Samsung Electronics France SA discussion Rel-17 NR\_IAB\_enh-Core

R2-2201351 Discussion o BAP routing and rerouting ZTE, Sanechips discussion Rel-17

R2-2201429 Open issues for BAP routing operation LG Electronics Inc. discussion Rel-17 NR\_IAB\_enh-Core

R2-2201430 Text Proposal of TS 38.340 for BAP routing operation LG Electronics Inc. discussion Rel-17 NR\_IAB\_enh-Core

R2-2201606 Boundary IAB node behaviour for partial inter-donor migration Ericsson discussion NR\_IAB\_enh-Core

#### 8.4.2.4 Other

Any other Open issue

R2-2200353 intra-donor CU service interruption reduction Intel Corporation discussion Rel-17 NR\_IAB\_enh-Core

R2-2200809 On Congestion Triggered Local Re-routing vivo discussion Rel-17 NR\_IAB-Core

R2-2200810 Discussion on LCP Extension vivo discussion Rel-17 NR\_IAB-Core

R2-2201054 PDCP aspects of a migrating node withholding a child node’s RRC reconfiguration Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IAB\_enh-Core

R2-2201298 LCG extension and R1 related MAC CE design Huawei, HiSilicon discussion Rel-17 NR\_IAB\_enh-Core

R2-2201323 Discussion on congestion mitigation in Rel-17 eIAB Samsung Electronics France SA discussion Rel-17 NR\_IAB\_enh-Core

R2-2201353 Discussion on MAC CEs for PHY layer support ZTE, Sanechips discussion Rel-17

R2-2201427 Remaining issues on LCG extension LG Electronics Inc. discussion Rel-17 NR\_IAB\_enh-Core

R2-2201526 Extended BSR and padding Samsung Electronics GmbH discussion

R2-2201610 RAN2 impact of miscellaneous features driven by RAN3 and RAN1 Ericsson discussion NR\_IAB\_enh-Core

### 8.4.3 UE capabilities

Initial discussion on Features / UE caps developed in RAN2, if any. Note that this AI is complementary to AI 8.0.2. This topic may be treated mainly oiffline.

R2-220xxxx Summary of 8.4.3 UE caps (Intel)

R2-2200354 UE capabilities for Rel-17 eIAB Intel Corporation draftCR Rel-17 38.306 16.7.0 NR\_IAB\_enh-Core

R2-2200355 UE capabilities for Rel-17 eIAB Intel Corporation draftCR Rel-17 38.331 16.7.0 NR\_IAB\_enh-Core

R2-2201055 IAB UE feature list Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IAB\_enh-Core

R2-2201300 UE capability issues for eIAB Huawei, HiSilicon discussion Rel-17 NR\_IAB\_enh-Core

R2-2201352 Discussion on R17 IAB-MT capabilities ZTE, Sanechips discussion Rel-17

R2-2201609 On eIAB capabilities Ericsson discussion NR\_IAB\_enh-Core

## 8.5 NR IIoT URLLC

(NR\_IIOT\_URLLC\_enh-Core; leading WG: RAN2; REL-17; WID: RP-210854)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

Email max expectation: threads

### 8.5.1 Organizational

Including email discussions [Post116-e][511][IIoT] MAC running CR update (Samsung) and [Post116-e][512][IIoT] Stage-2 running CR update (Nokia)

R2-2200024 MAC Running CR for Rel-17 IIoT/URLLC Samsung draftCR Rel-17 38.321 16.7.0 B NR\_IIOT\_URLLC\_enh

R2-2200052 Stage-2 Running CR for Rel-17 IIoT/URLLC Nokia, Nokia Shanghai Bell CR Rel-17 38.300 16.8.0 0392 - B NR\_IIOT\_URLLC\_enh R2-2110441

R2-2200080 LS on propagation delay compensation (R1-2112834; contact: Huawei) RAN1 LS in Rel-17 NR\_IIOT\_URLLC\_enh To:RAN2, RAN4

R2-2200951 RRC running CR for IIoT Ericsson draftCR Rel-16 38.331 16.7.0 NR\_IIOT\_URLLC\_enh

R2-2200992 UE capabilities for Rel-17 IIoT / URLLC Intel Corporation discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2201131 RAN1 feature impact on MAC in Rel-17 IIoT/URLLC Apple discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core Late

R2-2201132 Text proposals to MAC running CR for Rel-17 IIoT/URLLC Apple discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core Late

R2-2201373 MAC impact of RAN1 Rel-17 HARQ deferral Xiaomi Communications discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

### 8.5.2 Enhancements for support of time synchronization

RAN1 progress if any should be taken into account. \

R2-2200060 RE: LS on Time Synchronization IEEE 1588 WG LS in To:RAN, SA Cc:RAN2

R2-2200182 Signalling for Support of Propagation Delay Compensation Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IIOT\_URLLC\_enh

R2-2200320 RTT-based PDC and TA-based PDC CATT discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2200477 Discussion about propagation delay compensation for accurate time synchronization Huawei, HiSilicon discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2200611 Discussion on propagation delay compensation for TSN NTT DOCOMO INC. discussion Rel-17

R2-2200678 Discussion on RTT-based PDC ZTE Corporation, Sanechips, China Southern Power Grid Co., Ltd discussion NR\_IIOT\_URLLC\_enh-Core

R2-2200761 Signaling procedure of RTT based propagation delay compensation Lenovo, Motorola Mobility discussion Rel-17

R2-2200872 Discussion on RTT-based PDC Enhancement CMCC discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2200926 Remaining issues on time synchronization enhancement OPPO discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2200952 Propagation delay compensation enhancements Ericsson discussion

R2-2200991 Remaining issues of timing synchronization Intel Corporation discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2201016 Propagation Delay Compensation for TSN Qualcomm Incorporated discussion Rel-17

R2-2201263 Discussion on propagation delay compensation vivo discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2201367 Issues on PDC Samsung discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

### 8.5.3 Uplink enhancements for URLLC in unlicensed controlled environments

Remaining open issues.

R2-2200183 Remaining Issues on Configured Grant for URLLC in Unlicensed Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IIOT\_URLLC\_enh

R2-2200321 Leftovers of UCE CATT discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2200478 Remaining issues about uplink enhancements for URLLC in UCE Huawei, HiSilicon discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2200927 Remaining issues on URLLC over NRU OPPO discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2200953 Remaining issues in UL CG enhancements Ericsson discussion

R2-2201018 CG Harmonization for Unlicensed Controlled Environment Qualcomm Incorporated discussion Rel-17

R2-2201226 Further Consideration on the Intra-UE multiplexing in UCE ZTE Corporation,Sanechips discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2201264 Remaining Issues for UCE vivo discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2201285 Remaining issues for IIoT in UCE III discussion NR\_IIOT\_URLLC\_enh-Core

R2-2201368 Remaining Issues on CG Enhancement and Intra-UE Prioritization Samsung discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2201374 UE processing time restriction on the retransmission grant selection Xiaomi Communications discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2201460 Remaining issues for UCE MediaTek Inc. discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core R2-2110754

### 8.5.4 RAN enhancements based on new QoS

Contributions should aim to bring new issues not covered in email discussions already and should be clearly separated in the document from issues covered in the email discussion.

Including email discussion [Post116-e][513][IIoT] QoS survival time (Apple)

RAN enhancements based on new QoS related parameters taken into account SA2 progress

R2-2200003 Report of [Post116-e][513][IIoT] QoS Survival Time (Apple) Apple discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2200184 Some open issues for Survival Time Support Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_IIOT\_URLLC\_enh

R2-2200309 Analysis on HARQ-NACK solution Fujitsu discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core R2-2109710

R2-2200310 Survival Time Mode and Measurement Gap Fujitsu discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2200311 L1/L2 configuration adaptation Fujitsu discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core R2-2109709

R2-2200322 HARQ NACK solution: leftover issues and TP CATT discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2200369 Additional aspects on resource in Survival Time III discussion Rel-17 NR\_IIOT\_URLLC\_enh

R2-2200479 Discussion about UE behaviors for Survival Time state operation Huawei, HiSilicon discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2200704 N and combined Tx-side timer for IIoT QoS ZTE, Sanechips, China Southern Power Grid Co., Ltd, TCL Communication Ltd., vivo discussion NR\_IIOT\_URLLC\_enh-Core R2-2110108

R2-2200708 Remaining issues on the support of survival time Lenovo, Motorola Mobility discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2200873 Remaining Issues on HARQ-NACK Solution CMCC discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2200928 Remaining issues on survival time OPPO discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2200954 Remaining details on survival time enhancement Ericsson discussion

R2-2200990 Survival time handling Intel Corporation discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2201019 RAN Enhancement to support Survival Time Qualcomm Incorporated discussion Rel-17

R2-2201133 Remaining QoS solution aspects Apple discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2201173 Remaining issues on the support of survival time InterDigital discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2201265 Discussion on HARQ NACK solution vivo discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2201375 Remaining issues of survival time requirements Xiaomi Communications discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

R2-2201520 CG status and PDCP Duplication status LG Electronics discussion NR\_IIOT\_URLLC\_enh-Core

R2-2201521 Remaining issues on QoS support LG Electronics discussion NR\_IIOT\_URLLC\_enh-Core

R2-2201522 Selective RLC activation for PDCP duplication in ST state LG Electronics discussion NR\_IIOT\_URLLC\_enh-Core

R2-2201530 Finalising Survival Time related enhancements Samsung Electronics GmbH discussion

R2-2201622 Considerations on UE Survival Time support Sequans Communications discussion Rel-17 NR\_IIOT\_URLLC\_enh-Core

## 8.6 Small Data enhancements

(NR\_SmallData\_INACTIVE-Core; leading WG: RAN2; REL-17; WID: RP-212594)

Time budget: 1.5 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 2 threads

### 8.6.1 Organizational

In coming LSs, rapporteur input for email discussions summaires etc (tdocs in this don’t count towards tdoc limit).

Inputs expected for 38.321 CR (Huawei), 38.331 CR (ZTE), 38.300 CR (Nokia)

Including [Post116-e][506][SDT] RRC running CR update (ZTE), [Post116-e][507][SDT] MAC running CR update (Huawei), and [Post116-e][508][SDT] Stage-2 running CR update (Nokia)

R2-2200025 Introduction of SDT Nokia, Nokia Shanghai Bell CR Rel-17 38.300 16.8.0 0357 - B NR\_SmallData\_INACTIVE-Core R2-2110808

R2-2200031 Running MAC CR for small data Huawei, HiSilicon draftCR Rel-17 38.321 16.7.0 B NR\_SmallData\_INACTIVE-Core

R2-2200032 Summary of [Post116-e][507][SDT] MAC running CR update (Huawei) Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200050 RRC Running CR for SDT ZTE Corporation (rapporteur) discussion Rel-17 38.331 NR\_SmallData\_INACTIVE-Core

R2-2200073 Reply LS on the physical layer aspects of small data transmission (R1-2112782; contact: ZTE) RAN1 LS in Rel-17 NR\_SmallData\_INACTIVE-Core To:RAN2

R2-2200502 UE capabilities for Rel-17 SDT WI Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200503 UE capabilities for Rel-17 SDT WI Intel Corporation draftCR Rel-17 38.306 16.7.0 NR\_SmallData\_INACTIVE-Core

R2-2200504 UE capabilities for Rel-17 SDT WI Intel Corporation draftCR Rel-17 38.331 16.7.0 NR\_SmallData\_INACTIVE-Core

R2-2201027 Updated RRC running CR for SDT ZTE corporation (rapporteur) draftCR Rel-17 38.331 16.7.0 B NR\_SmallData\_INACTIVE

R2-2201357 Discussion on MAC running CR LG Electronics Inc. discussion NR\_SmallData\_INACTIVE-Core

### 8.6.2 User plane common aspects

Overall user plane procedure for SDT (including details of ROHC continuity, BSR/PHR configuration, LCH restrictions, handling of TAT and CG-TAT) )

LG is expected to submit a paper on the proposals not treated from last meeting. Companies are discouraged from submitting documents on those issues again unless their opinon has changed. Focus on new critical open issues

R2-2200203 User Plane Aspects of RACH and CG based SDT Samsung Electronics Co., Ltd discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200336 Consideration on UP remaining issues CATT discussion Rel-17 NR\_SmallData\_INACTIVE-Core Late

R2-2200435 Remaining issues of user plane common aspects Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200573 Remaining user plane aspects of SDT NEC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200643 Discussion on user plane issues of SDT OPPO discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200726 Remaining issues on UP aspects of SDT Qualcomm Incorporated discussion Rel-17 NR\_SmallData\_INACTIVE-Core R2-2110752

R2-2200863 Data volume calculation for SDT CMCC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200985 Common aspects for SDT Ericsson discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2201024 Remaining UP issues for SDT InterDigital discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2201028 User plane common aspects of SDT ZTE corporation, Sanechips discussion

R2-2201124 User plane aspects of SDT Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2201321 Remaining UP issues in SDT LG Electronics Inc. discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2201438 Remaining Issues on Subsequent UL transmission during SDT vivo discussion Rel-17 NR\_SmallData\_INACTIVE-Core Late

R2-2201439 Remaining Issues on Subsequent UL transmission during SDT vivo discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2201570 Consideration on UP remaining issues CATT discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2201586 UP aspects for SDT Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE-Core

### 8.6.3 Control plane common aspects

Including output of [Post116-e][510][SDT] CCCH and DCCH (Nokia). Only co-sourced CRs and papers are encouraged for this topic.

Other critical CP open issues

R2-2200026 Report of [Post116-e][510][SDT] CCCH and DCCH (Nokia) Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200201 Paging Monitoring during SDT procedure Samsung Electronics Co., Ltd discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200202 RNA update and SI request handling during SDT procedure Samsung Electronics Co., Ltd discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200312 Handling of SDTF detection timer Fujitsu discussion Rel-17 NR\_SmallData\_INACTIVE-Core R2-2109712

R2-2200313 RAN paging reception and response during SDT Fujitsu discussion Rel-17 NR\_SmallData\_INACTIVE-Core R2-2109713

R2-2200337 Consideration on some CP issues CATT discussion Rel-17 NR\_SmallData\_INACTIVE-Core Late

R2-2200505 Control Plane leftover issues on SDT procedure Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200574 Remaining control plane aspects of SDT NEC discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200644 Discussion on control plane issues of SDT OPPO discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200663 Emergency call in the middle of SDT operation InterDigital, Europe, Ltd. Rakuten Mobile Inc. discussion Rel-17

R2-2200696 Handling of SDT failure timer InterDigital, Europe, Ltd. discussion Rel-17

R2-2200727 Remaining issues on CP aspects of SDT Qualcomm Incorporated discussion Rel-17 NR\_SmallData\_INACTIVE-Core R2-2110753

R2-2200811 Control plane common aspects for SDT Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200919 Subsequent SDT failure detection timer Sony discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200986 CP aspects for SDT Ericsson discussion

R2-2201029 CP open issues for SDT ZTE corporation, Sanechips discussion

R2-2201125 Control plane aspects of SDT Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2201126 Power Saving for SDT Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2201174 DCCH-based indication of non-SDT data arrival Intel Corporation, ZTE Corporation, Sanechips, Samsung, Xiaomi, MediaTek, Radisys and Reliance JIO, Qualcomm, CMCC, OPPO, Lenovo, Sony, Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2201217 RNA Update during SDT Sharp discussion

R2-2201358 Remaining issues on Control Plane Aspects for SDT LG Electronics Inc. discussion NR\_SmallData\_INACTIVE-Core

R2-2201376 Clarification on the area configured for ROHC continuity Xiaomi Communications discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2201377 Paging reception during SDT Xiaomi Communications discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2201378 RACH failure in subsequent data transmission phase Xiaomi Communications discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2201440 Remaining Issues on RRC-Controlled SDT procedure vivo discussion Rel-17 NR\_SmallData\_INACTIVE-Core R2-2109439

R2-2201441 Further Consideration on the Handling of non-SDT Data Arrival vivo discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2201495 SDT control plane aspects Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE

R2-2201496 RRC procedure for SDT Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE

R2-2201535 Remaining issues for non-SDT data arrival China Telecommunications discussion

R2-2201571 Consideration on some CP issues CATT discussion Rel-17 NR\_SmallData\_INACTIVE-Core

### 8.6.4 Aspects specific to RACH based schemes

Contribution on this topic should be submitted on the RACH partitioning/configuration AI, unless something specific to Small data needs to be discussed.

R2-2200338 Anchor relocation during SDT CATT discussion Rel-17 NR\_SmallData\_INACTIVE-Core Late

R2-2200506 RACH leftover issues on RA-SDT procedure Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200638 Discussion on RACH-based SDT Spreadtrum Communications discussion Rel-17

R2-2200645 Discussion on swiching from RA-SDT to non-SDT OPPO discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200729 Remaining issues on RACH based SDT Qualcomm Incorporated discussion Rel-17 NR\_SmallData\_INACTIVE-Core R2-2110760

R2-2200738 Discussion on triggering legacy RA for RA-SDT ASUSTeK discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200779 Analysis on open issue of RA based SDT Lenovo, Motorola Mobility discussion Rel-17

R2-2200983 RACH based small data transmission Ericsson discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2201355 Switching cases of SDT and non-SDT LG Electronics Inc. discussion NR\_SmallData\_INACTIVE-Core

R2-2201356 Discussion on Carrier selection for SDT LG Electronics Inc. discussion NR\_SmallData\_INACTIVE-Core

R2-2201572 Anchor relocation during SDT CATT discussion Rel-17 NR\_SmallData\_INACTIVE-Core

### 8.6.5 Aspects specific to CG based schemes

Including outcome of [Post116-e][509][SDT] CG open issues (Huawei)

Contributions should aim to bring new issues not covered in email discussions already and should be clearly separated in the document from issues covered in the email discussion.

R2-2200033 Summary of [Post116-e][509][SDT] CG open issues (Huawei) Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200204 CG-SDT-TAT expiry handing during the CG-SDT procedure Samsung Electronics Co., Ltd discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200339 Consideration on CG-SDT CATT discussion Rel-17 NR\_SmallData\_INACTIVE-Core Late

R2-2200436 Remaining issues of CG-SDT Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200437 Further discussion on TA issues for CG-SDT Huawei, HiSilicon, ZTE corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200507 CG-SDT leftover issues Intel Corporation discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200646 Discussion on open issues of CG-SDT OPPO discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200717 Remaining issues on CG-based Small data transmission Lenovo, Motorola Mobility discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200734 Remaining issues on CG based SDT Qualcomm Incorporated discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200739 Discussion on CS-RNTI configuration for CG-SDT ASUSTeK discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2200984 Details of CG based SDT Ericsson discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2201023 Remaining issues for CG-based SDT InterDigital discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2201030 Aspects specific to CG-SDT ZTE corporation, Sanechips discussion

R2-2201338 Aspects specific to CG-SDT Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2201379 Clarification on the RSRP-based TA validation Xiaomi Communications discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2201442 Supporting Small Data Transmission via CG PUSCH vivo discussion Rel-17 NR\_SmallData\_INACTIVE-Core Late

R2-2201537 Remaining issues on CG based SDT China Telecommunications discussion

R2-2201573 Consideration on CG-SDT CATT discussion Rel-17 NR\_SmallData\_INACTIVE-Core

## 8.7 NR Sidelink relay

(NR\_SL\_Relay-Core; leading WG: RAN2; REL-17; WID: RP-212601)

Time budget: 2 TU

Tdoc Limitation: 6 tdocs

Email max expectation: 7 threads

### 8.7.1 Organizational

Incoming LSs, TS updates, rapporteur inputs. This AI is reserved for rapporteur and organizational inputs. Documents in this AI do not count towards the tdoc limitation.

R2-2200038 Work planning for R17 SL relay OPPO, CMCC Work Plan Rel-17 NR\_SL\_relay-Core

R2-2200062 LS on the indication of discovery message and PC5-S signalling to ProSe layer (C1-217167; contact: CATT) CT1 LS in Rel-17 5G\_ProSe To:RAN2 Cc:SA2

R2-2200165 Indication of Discovery Message and PC5-S Signalling to ProSe Layer CATT discussion Rel-17 NR\_SL\_relay-Core

R2-2200178 Initial consideration on UE capability of sidelink relay Qualcomm Incorporated discussion NR\_SL\_relay-Core

R2-2200364 Running CR for TS 38.351 OPPO draft TS Rel-17 38.351 0.2.0 NR\_SL\_relay-Core

R2-2200365 Remaining open issues for R17 SL relay OPPO discussion Rel-17 NR\_SL\_relay-Core

R2-2200366 Discussion on C1-217167 OPPO discussion Rel-17 NR\_SL\_relay-Core

R2-2200658 Running CR of 38.322 for SL Relay Samsung draftCR Rel-17 38.322 16.2.0 B NR\_SL\_relay-Core

R2-2200659 Running CR of 38.323 for SL Relay Samsung draftCR Rel-17 38.323 16.6.0 B NR\_SL\_relay-Core

R2-2200789 Stage 2 Running CR on Introduction of R17 SL Relay MediaTek Inc. draftCR Rel-17 38.300 16.8.0 B NR\_SL\_relay-Core

R2-2200944 Stage 2 corrections for SL Relay Nokia, Nokia Shanghai Bell, Ericsson draftCR Rel-17 38.300 16.8.0 NR\_SL\_relay-Core

R2-2200945 RRC corrections for SL Relay Nokia, Nokia Shanghai Bell, Ericsson draftCR Rel-17 38.331 16.7.0 NR\_SL\_relay-Core

R2-2201160 Running CR of 38.304 for SL relay Ericsson draftCR Rel-17 38.304 16.7.0 B NR\_SL\_relay-Core

R2-2201507 RRC running CR for SL relay Huawei, HiSilicon draftCR Rel-17 38.331 16.7.0 B NR\_SL\_relay-Core R2-2111490

R2-2201508 Stage3 open issues in RRC running CR Huawei, HiSilicon discussion Rel-17 NR\_SL\_relay-Core

### 8.7.2 L2 relay specific topics

No documents should be submitted to 8.7.2. Please submit to 8.7.2.x.

#### 8.7.2.1 Control plane procedures

Including connection management, SI delivery, paging, access control for remote UE. This agenda item will utilise a summary document.

R2-2200166 Control Plane Procedures of L2 Relay CATT discussion Rel-17 NR\_SL\_relay-Core

R2-2200172 Remaining issues on RRC connection management of L2 U2N relay Qualcomm Incorporated discussion NR\_SL\_relay-Core

R2-2200173 Remaining issues on paging and SIB forwarding in L2 U2N relay Qualcomm Incorporated discussion NR\_SL\_relay-Core

R2-2200226 Leftover issues of Control plane procedures for L2 U2N relaying Intel Corporation discussion Rel-17 NR\_SL\_relay-Core

R2-2200367 Remaining WA for R17 SL Relay OPPO, Qualcomm Incorporated, Samsung, Intel Corporation, Apple, Huawei, HiSilicon, MediaTek Inc., Xiaomi, Nokia, Nokia Shanghai Bell, Ericsson discussion Rel-17 NR\_SL\_relay-Core

R2-2200372 Left Issues on Control Plane Aspects for L2 Relay OPPO discussion Rel-17 NR\_SL\_relay-Core

R2-2200410 Monitoring Paging by a U2N Relay Lenovo, Motorola Mobility discussion NR\_SL\_relay-Core

R2-2200412 SI acquisition by a remote UE Lenovo, Motorola Mobility discussion NR\_SL\_relay-Core

R2-2200471 Open issues on L2 Control Plane Procedures vivo discussion

R2-2200512 Discussion on RRC reestablishment related parameters for L2 sidelink relay China Telecom discussion Rel-17 NR\_SL\_relay-Core

R2-2200551 Remaining issues for Control plane MediaTek Inc. discussion Rel-17

R2-2200552 RAN sharing MediaTek Inc., CATT, OPPO, Qualcomm Incorporated, ZTE, Huawei, HiSilicon, Apple, InterDigital discussion Rel-17

R2-2200625 Left issues on control plane procedures for L2 U2N relay Spreadtrum Communications discussion Rel-17

R2-2200653 Remaining issues for paging and SI delivery Samsung discussion Rel-17 NR\_SL\_relay-Core

R2-2200740 Discussion on sidelink RLC bearer management for L2 U2N relay ASUSTeK discussion Rel-17 38.331 NR\_SL\_relay-Core

R2-2200741 Discussion on missing procedural text for applying C-RNTI of Remote UE ASUSTeK discussion Rel-17 38.331 NR\_SL\_relay-Core

R2-2200742 Discussion on missing procedural text for Relay UE to apply SL-RLC0 configuration ASUSTeK discussion Rel-17 38.331 NR\_SL\_relay-Core

R2-2200743 Reflecting Stage 2 agreement on sidelink resource allocation mode for U2N relay ASUSTeK discussion Rel-17 38.331 NR\_SL\_relay-Core

R2-2200776 Considerations on CP issues Lenovo, Motorola Mobility discussion Rel-17

R2-2200784 Further Issues on Paging in NR Sidelink Relay Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SL\_relay-Core

R2-2200794 Discussion on establishment cause of relay UE Xiaomi, Lenovo, Motorola Mobility, Apple discussion

R2-2200795 Discussion on connection control Xiaomi discussion

R2-2200796 Discusson on SI delivery Xiaomi discussion

R2-2200855 Control plane procedure CMCC discussion Rel-17 NR\_SL\_relay-Core

R2-2200908 Area specific SI issue in L2 relay Sony discussion Rel-17 NR\_SL\_relay-Core

R2-2200946 Discussion on RAN sharing with L2 U2N relays Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SL\_relay-Core

R2-2201136 Discussion on remaining issues on control plane procedures Apple discussion Rel-17 NR\_SL\_relay-Core

R2-2201144 Remaining Aspects of Paging and System Information for L2 UE to NW Relays InterDigital discussion Rel-17 FS\_NR\_SL\_relay

R2-2201145 Open Issues on Connection Establishment for UE to NW Relays InterDigital discussion Rel-17 FS\_NR\_SL\_relay

R2-2201146 IDLE/INACTIVE Remote UE Behaviour during Remote and Relay UE Mobility InterDigital discussion Rel-17 FS\_NR\_SL\_relay

R2-2201158 Remaining issues on control plane for L2 sidelink relay Ericsson discussion Rel-17 NR\_SL\_relay-Core

R2-2201218 Consideration on the remain issues for control plane procedures LG Electronics France discussion Rel-17

R2-2201294 Access control support for U2N relaying Intel Corporation discussion Rel-17 NR\_SL\_relay-Core

R2-2201345 Consideration on the control plane procedure of SL relay ZTE, Sanechips discussion Rel-17

R2-2201407 Summary of AI 8.7.2.1 on CP procedure OPPO discussion Rel-17 NR\_SL\_relay-Core Late

R2-2201509 SI forwarding and paging for L2 sidelink relay Huawei, HiSilicon discussion Rel-17 NR\_SL\_relay-Core

R2-2201510 RRC connection management for L2 sidelink relay Huawei, HiSilicon discussion Rel-17 NR\_SL\_relay-Core

#### 8.7.2.2 Service continuity

Service continuity between Uu and relay paths, limited to intra-gNB cases.

Including outcome of [Post116-e][604][Relay] Remaining issues on service continuity (Xiaomi)

R2-2200009 Summary of [Post116-e][604][Relay] Remaining issues on service continuity (Xiaomi) Xiaomi discussion

R2-2200167 Leftover Issues on Service Continuity for L2 U2N Relay CATT discussion Rel-17 NR\_SL\_relay-Core

R2-2200174 Remaining issues on service continuity of L2 U2N relay Qualcomm Incorporated discussion NR\_SL\_relay-Core

R2-2200227 Remaining issues for service continuity in L2 U2N relaying Intel Corporation discussion Rel-17 NR\_SL\_relay-Core

R2-2200333 Remaining issues for service continuity MediaTek Inc. discussion Rel-17

R2-2200402 Further discussions on open issues of path switch NEC Corporation discussion Rel-17

R2-2200472 Remaining issues on service continuity in L2 U2N relay vivo discussion

R2-2200488 Discussion on remaining issue of service continuity OPPO discussion Rel-17 NR\_SL\_relay-Core

R2-2200513 Discussion on service continuity for L2 UE-to-Network relay China Telecom discussion Rel-17 NR\_SL\_relay-Core

R2-2200654 Open issues for service continuity Samsung discussion Rel-17 NR\_SL\_relay-Core

R2-2200744 Local remote UE ID allocation for direct to indirect path switching ASUSTeK discussion Rel-17 NR\_SL\_relay-Core

R2-2200745 Multiple PDU sessions handling during direct to indirect path switching ASUSTeK discussion Rel-17 NR\_SL\_relay-Core

R2-2200777 Path switching in L2 U2N relay case Lenovo, Motorola Mobility discussion Rel-17

R2-2200793 Discussion on service continuity Xiaomi discussion

R2-2200909 Service continuity open issues in L2 NR sidelink relay Sony discussion Rel-17 NR\_SL\_relay-Core

R2-2201056 Remaining issues for Service Continuity in L2 relay Kyocera discussion

R2-2201137 Discussion on remaining issues on service continuity Apple discussion Rel-17 NR\_SL\_relay-Core

R2-2201147 Remaining Issues on Service Continuity for L2 UE to NW Relays InterDigital discussion Rel-17 FS\_NR\_SL\_relay

R2-2201159 Remaining Issues on Service Continuity for L2 Sidelink relay Ericsson discussion Rel-17 NR\_SL\_relay-Core

R2-2201246 Remaining issues on direct-to-indirect path switching Sharp discussion

R2-2201346 Discussion on remaining issues on service continuity ZTE, Sanechips discussion Rel-17

R2-2201444 Service continuity in direct-to-indirect path switch LG Electronics France discussion Rel-17

R2-2201462 Support of idle mode mobility for remote-UE in SL UE-to-Nwk relay Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SL\_relay-Core R2-2110767

R2-2201511 Remaining issues on service continuity for L2 UE to NW Relay Huawei, HiSilicon discussion Rel-17 NR\_SL\_relay-Core

#### 8.7.2.3 Adaptation layer design

Including bearer mapping, remote UE identification, security aspects if any. This agenda item will utilise a summary document.

R2-2200168 Leftover Issues on Adaptation Layer Design for L2 U2N Relay CATT discussion Rel-17 NR\_SL\_relay-Core

R2-2200175 Remaining issues on adaptation layer of L2 U2N relay Qualcomm Incorporated discussion NR\_SL\_relay-Core

R2-2200228 Open aspects of adaptation layer design for L2 U2N relaying Intel Corporation discussion Rel-17 NR\_SL\_relay-Core

R2-2200335 Remaining issues for Adaptation layer design MediaTek Inc. discussion Rel-17

R2-2200363 Left issues for adaptation layer OPPO discussion Rel-17 NR\_SL\_relay-Core

R2-2200473 Adaptation Layer for Uu and PC5 vivo discussion

R2-2200556 SRAP layer open issues for L2 U2N relay Huawei, HiSilicon discussion Rel-17 NR\_SL\_relay-Core

R2-2200567 Remaining issues related to SRAP Fujitsu discussion Rel-17 NR\_SL\_relay-Core

R2-2200655 Flow control for L2 U2N Relay Samsung, Philips discussion Rel-17 NR\_SL\_relay-Core R2-2110451

R2-2200856 Leftover issues on adaption layer design CMCC discussion Rel-17 NR\_SL\_relay-Core

R2-2200937 Remaining issues of the adaptation layer Ericsson discussion Rel-17 NR\_SL\_relay-Core

R2-2200943 summary of AI 8.7.2.3 on the adaptation layer Ericsson discussion Rel-17 NR\_SL\_relay-Core Late

R2-2201347 Discussion on adaptation layer design ZTE, Sanechips discussion Rel-17

R2-2201465 Remote ID for the adaptation layer Nokia, Nokia Shanghai Bell discussion NR\_SL\_relay-Core

R2-2201492 Remote UE local ID in PC5 Adaptation Layer Header Beijing Xiaomi Mobile Software discussion Rel-17

R2-2201533 Finalizing design of Adapt layer Samsung Electronics GmbH discussion

#### 8.7.2.4 QoS

Mechanisms for E2E QoS management. This AI will not be treated online. Critical issues, if any, may be handled by email. This agenda item will utilise a summary document.

R2-2200169 Leftover Issues on QoS Management for L2 U2N Relay CATT discussion Rel-17 NR\_SL\_relay-Core

R2-2200334 Remaining issues for QoS MediaTek Inc. discussion Rel-17

R2-2200413 Considerations on voice and video support for Relays Philips International B.V., MediaTek, Vivo, FirstNet, KPN, TNO, Kyocera discussion Rel-17 NR\_SL\_relay-Core R2-2109822

R2-2200474 Left issues on E2E QoS management vivo discussion

R2-2200656 QoS handling for SL discovery Samsung discussion Rel-17 NR\_SL\_relay-Core

R2-2200936 Aspects for QoS management with SL relay Ericsson discussion Rel-17 NR\_SL\_relay-Core

R2-2200995 Remaining Issues in QoS for L2 Sidelink Relay Fraunhofer IIS, Fraunhofer HHI discussion Rel-17

R2-2201148 Discussion on QoS for L2 UE to NW Relays InterDigital, Philips, Apple discussion Rel-17 FS\_NR\_SL\_relay

R2-2201199 Remaining issues on QoS Huawei, HiSilicon discussion Rel-17 NR\_SL\_relay-Core Withdrawn

R2-2201348 Discussion on QoS of SL relay ZTE, Sanechips discussion Rel-17

### 8.7.3 L2/L3 common topics

For any remaining stage 3 issues related to discovery and (re)selection. No documents should be submitted to 8.7.3. Please submit to 8.7.3.x.

#### 8.7.3.1 Discovery

Including 5G ProSe Direct Discovery for the non-relaying case. Re-using LTE discovery as baseline. This agenda item may utilise a summary document (decision to be made based on submitted tdocs).

R2-2200170 Leftover Issues for Sidelink Discovery CATT discussion Rel-17 NR\_SL\_relay-Core

R2-2200176 Remaining issues on discovery Qualcomm Incorporated discussion NR\_SL\_relay-Core

R2-2200229 Discovery open aspects for U2N relaying Intel Corporation discussion Rel-17 NR\_SL\_relay-Core

R2-2200411 Relay Discovery in L2 and L3 relay case Lenovo, Motorola Mobility discussion NR\_SL\_relay-Core

R2-2200475 Remaining Issues of Discovery Message Transmission vivo discussion

R2-2200486 Discussion on remaining issue of sidelink discovery OPPO discussion Rel-17 NR\_SL\_relay-Core

R2-2200514 Discussion on SL discovery remaining issues China Telecom discussion Rel-17 NR\_SL\_relay-Core

R2-2200657 PDCP and RLC aspects for SL discovery Samsung discussion Rel-17 NR\_SL\_relay-Core

R2-2200934 Left issues for SL discovery Ericsson discussion Rel-17 NR\_SL\_relay-Core

R2-2201138 Discussion on remaining issues on relay discovery Apple discussion Rel-17 NR\_SL\_relay-Core

R2-2201149 Using Shared and Dedicated Resource Pools for Discovery InterDigital discussion Rel-17 FS\_NR\_SL\_relay

R2-2201343 Further discussion on Relay discovery ZTE, Sanechips discussion Rel-17

R2-2201491 Tx Resource Pools for Discovery Beijing Xiaomi Mobile Software discussion Rel-17

R2-2201512 Remaining issues on relay discovery Huawei, HiSilicon discussion Rel-17 NR\_SL\_relay-Core

#### 8.7.3.2 Relay re selection

Re-using LTE re/selection as baseline. This agenda item may utilise a summary document (decision to be made based on submitted tdocs).

R2-2200171 Leftover Issues for Relay Reselection CATT discussion Rel-17 NR\_SL\_relay-Core

R2-2200177 Remaining issues on relay (re)selection Qualcomm Incorporated discussion NR\_SL\_relay-Core

R2-2200422 U2N Relay UE operation Threshold Conditions: Impact of UE Mobility Philips International B.V., FirstNet, MediaTek, Lenovo, Motorola Mobility discussion Rel-17 NR\_SL\_relay-Core R2-2109823

R2-2200476 Remaining issues on Relay (re)selection vivo discussion

R2-2200487 Discussion on remaining issues of NR sidelink relay (re)selection OPPO discussion Rel-17 NR\_SL\_relay-Core

R2-2200626 Left issues on NotificationMessageSidelink message Spreadtrum Communications discussion Rel-17

R2-2200778 Relay (re)selection for L2 and L3 relay Lenovo, Motorola Mobility discussion Rel-17

R2-2200935 Aspects for SL relay selection and reselection Ericsson discussion Rel-17 NR\_SL\_relay-Core

R2-2201198 Discussion on relay reselection aspects Huawei, HiSilicon discussion Rel-17 NR\_SL\_relay-Core

R2-2201344 Further discussion on Relay selection ZTE, Sanechips discussion Rel-17

## 8.8 RAN slicing

(NR\_Slice -Core; leading WG: RAN2; REL-17; WID: RP-212534)

Time budget: 0.5 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 2 threads

Contributions should illustrate the Stage-3 details of the proposals (e.g. in an Annex containing TP against the running CRs).

### 8.8.1 Organizational

Including LSs, any rapporteur inputs and results of running CR email discussions [243]-[245]

Including rapporteur input on remaining open issues needed to close the WI.

R2-2200055 List of open issues for RAN slicing WI CMCC discussion Rel-17 NR\_slice-Core

R2-2200844 Open issues list for RAN Slicing CMCC discussion Rel-17 FS\_NR\_slice Withdrawn

R2-2200972 Report of [Post116-e][243][Slicing] Running NR RRC CR for RAN slicing (Huawei) Huawei discussion Rel-17 NR\_slice-Core

R2-2200973 Running NR RRC CR for RAN slicing Huawei, HiSilicon draftCR Rel-17 38.331 16.7.0 B NR\_slice-Core

R2-2201406 Discussion on Slice Aware UL BSR RadiSys, Reliance JIO discussion Rel-17 NR\_slice-Core Late

R2-2201536 38.321 running CR for RAN Slicing OPPO draftCR Rel-17 38.321 16.7.0 B NR\_slice-Core

### 8.8.2 Cell reselection

Including discussion on finalization of the "slice group" for cell reselection, in which SIB the slicing information for reselection is broadcast and how the serving cell priority is handled in reselection process

Including discussion on whether additional mechanisms beyond solution 4 are needed

Including discussion on how to resolve slice groups at TA boundaries e.g. if the TAs support different slice groups, what are the RAN2 impacts?

Including outcome of [Post116-e][242][Slicing] Slice-based cell re-selection algorithm (Ericsson)

R2-2200043 [Post116-e][242][Slicing] Slice-based cell re-selection algorithm Ericsson discussion

R2-2200044 Running 38.304 CR for RAN slicing Ericsson draftCR Rel-17 38.304 16.7.0 B NR\_slice-Core

R2-2200179 Remaining issues on slice specific cell reselection Qualcomm Incorporated discussion NR\_SL\_relay-Core

R2-2200406 Optimizations for signalling Slice Information Lenovo, Motorola Mobility discussion NR\_slice-Core

R2-2200407 RAN Slicing CR to 38.304 Lenovo, Motorola Mobility CR Rel-17 38.304 16.7.0 0225 - B NR\_slice-Core

R2-2200408 Triggers for initiating RAN slicing based cell reselections Lenovo, Motorola Mobility discussion NR\_slice-Core

R2-2200409 Principles of Slice based reselection Lenovo, Motorola Mobility discussion NR\_slice-Core

R2-2200416 Discussion on Slice based Cell Reselection CATT discussion Rel-17 NR\_slice-Core

R2-2200417 Analysis on issues of slice groups at TA boundaries CATT discussion Rel-17 NR\_slice-Core

R2-2200510 Further considerations of slice based cell reselection Intel Corporation discussion Rel-17 NR\_slice-Core

R2-2200636 Consideration on slice based cell reselection Spreadtrum Communications discussion Rel-17

R2-2200845 Discussion on open issues for slice based cell reselection CMCC discussion Rel-17 FS\_NR\_slice

R2-2200929 Consideration on slice-specific cell reselection OPPO discussion Rel-17 NR\_slice-Core

R2-2200947 Considerations on slice groups Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_slice-Core

R2-2200948 Text Proposals for the draft 38.304 PCR Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_slice-Core

R2-2200949 Cell reselection delay for option B and option C Samsung R&D Institute India discussion

R2-2200974 Discussion on slice based cell reselection under network control Huawei, HiSilicon discussion Rel-17 NR\_slice-Core

R2-2201005 Leftover issues in slice based cell reselection ZTE corporation, Sanechips discussion Rel-17 NR\_slice-Core

R2-2201110 Text proposal for slice based cell reselection under NW control Apple discussion

R2-2201169 On slice-based cell re-selection TP for 38.304 Ericsson discussion Rel-17 NR\_slice-Core

R2-2201190 Slice-Info provision NEC Telecom MODUS Ltd. discussion

R2-2201192 Slice-based cell re-selection TP for solution 4C NEC Telecom MODUS Ltd. discussion

R2-2201200 Slice information provided by RRCRelease Sharp discussion Rel-17 R2-2110912

R2-2201208 Discussion on signalling slice information LG Electronics UK discussion Rel-17

R2-2201209 Discussion on slice based cell reselection LG Electronics UK discussion Rel-17

R2-2201389 A couple of FFS for Cell Reselection Kyocera discussion R2-2110274

R2-2201410 Resolving the common issues in slice based cell reselection Beijing Xiaomi Software Tech discussion Rel-17

R2-2201418 TP for system information and slice based reselection priority handling ZTE corporation, Sanechips discussion Rel-17 NR\_slice-Core

R2-2201422 On selection of Solution 4 Option A, B and C Samsung R&D Institute UK discussion

R2-2201443 Remaining Issues on Slice Information Samsung R&D Institute UK discussion

### 8.8.3 RACH

Including discussion on RAN slicing-specific RACH prioritization impacts that are not discussed as part of the common RACH prioritization agenda (if any)

NOTE: The common discussion on Rel-17 RACH partitioning will be discussed under AI 8.18. This AI will only consider RACH partitioning from slicing perspective.

This agenda item may be deprioritized in this meeting.

R2-2200180 Remaining issues on slice specific RACH Qualcomm Incorporated discussion NR\_SL\_relay-Core

R2-2200846 Discussion on open issues for slice based RACH configuration CMCC discussion Rel-17 FS\_NR\_slice

R2-2200930 Consideration on slice-specific RACH OPPO discussion Rel-17 NR\_slice-Core

R2-2200975 Discussion on slice based RACH configuration Huawei, HiSilicon discussion Rel-17 NR\_slice-Core

R2-2201050 Detailed RRC signalling for RACH prioritization configuration Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_slice-Core

R2-2201111 Slice based RACH configuration Apple discussion

R2-2201170 RACH for RAN slicing enhancement Ericsson discussion Rel-17 NR\_slice-Core

R2-2201409 Considerations on remaining issues for slice based RACH Beijing Xiaomi Software Tech discussion Rel-17

R2-2201417 Further consideration on slice specific RACH ZTE corporation, Sanechips discussion Rel-17 NR\_slice-Core

R2-2201475 Remaining issues on slice based RACH prioritization LG Electronics Inc. discussion Rel-17 NR\_slice-Core

### 8.8.4 UE capabilities

This agenda item may use a summary document.

Including discussion on UE capabilities related to RAN2-defined features for RAN slicing. If changes are proposed against the baseline endorsed in previous meeting, the proposals should illustrate the differences to the baseline illustrated in R2-2109627.

R2-2200181 Further discussion on UE capability related to RAN slicing enhancement Qualcomm Incorporated discussion NR\_SL\_relay-Core

R2-2200418 Analysis on UE capability for RAN slicing enhancement CATT discussion Rel-17 NR\_slice-Core

R2-2200511 UE capability for Slicing enhancement Intel Corporation discussion Rel-17 NR\_slice-Core

R2-2200697 Considerations on UE capability for RAN slicing Beijing Xiaomi Software Tech discussion Rel-17

R2-2200847 Discussion on UE capability for RAN slicing enhancement CMCC discussion Rel-17 FS\_NR\_slice

R2-2200931 Consideration on UE capability for Slicing OPPO discussion Rel-17 NR\_slice-Core

R2-2200976 Discussion on UE capabilities for RAN slicing Huawei, HiSilicon discussion Rel-17 NR\_slice-Core

R2-2201171 UE Capabilities for Slice- based Cell re-selection Ericsson discussion Rel-17 NR\_slice-Core

## 8.9 UE Power Saving

(NR\_UE\_pow\_sav\_enh-Core; leading WG: RAN2; REL-17; WID: RP-212632)

Time budget: 1 TU

Tdoc Limitation: 4 tdocs

Email max expectation: 4 threads

RP 93e: PEI: Support PDCCH-based PEI as the only option.

### 8.9.1 Organizational

E.g. Rapporteur input. Incoming LS. Running CRs etc

LS in

R2-2200130 LS on further agreements on RLM and BFD relaxation for UE Power Saving enhancements (R4-2120314; contact: vivo, MediaTek) RAN4 LS in Rel-17 NR\_UE\_pow\_sav\_enh-Core To:RAN2 Cc:RAN1

CRs

R2-2200591 38.304 Running CR for ePowSav vivo draftCR Rel-17 38.304 16.7.0 NR\_UE\_pow\_sav\_enh-Core

R2-2201157 38.300 running CR for introduction of UE power saving enhancements Huawei, HiSilicon draftCR Rel-17 38.300 16.8.0 NR\_UE\_pow\_sav\_enh-Core R2-2111491

R2-2201268 Update of 38.331 running CR for ePowSav with RAN1#107-e inputs CATT draftCR Rel-17 38.331 16.7.0 B NR\_UE\_pow\_sav\_enh-Core R2-2111657

Other

R2-2201476 [Draft] LS on network control over the use of PEI Futurewei Technologies LS out Rel-17 NR\_UE\_pow\_sav\_enh-Core To:SA2 Cc:RAN3 Late

### 8.9.2 Open Issues

#### 8.9.2.1 Paging Sub-grouping and Paging Early Indication

Focus on open issues, e.g. TBD marks in Running CR 38304 (R2-2111664). Issues with inter-group consenquences has priority, e.g. with consequences for R3, SA2 etc.

R2-2201675 [Pre116bis][005][ePowSav] Summary of 8.9.2.1 Paging Sub-grouping and Paging Early Indication (MediaTek) MediaTek

R2-2200197 UE Identity based Paging Subgrouping Aspects Samsung Electronics Co., Ltd discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2200198 UE Identity for paging subgrouping with eDRX Samsung Electronics Co., Ltd discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2200199 Simultaneous support of UE Identity based and CN assigned Paging Subgrouping Samsung Electronics Co., Ltd discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2200239 Discussion on paging subgrouping OPPO discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2200315 Open Issues for PEI and UE Paging Subgrouping MediaTek Inc. discussion

R2-2200455 Remaining open issues on subgrouping Intel Corporation discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2200464 Discussing on Paging Sub-grouping and Paging Early Indication Beijing Xiaomi Mobile Softwar discussion

R2-2200592 Discussion on remaining issues on PEI and sub-grouping vivo discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2200898 Considerations on remaining issues for paging subgrouping CMCC discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2200899 Further considerations on UE assistance information CMCC discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2200910 Discussion on paging subgrouping enhancements for idle/inactive-mode UE power saving Sony discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201102 On some remaining issues in 38.304 running CR for ePowSav Futurewei Technologies discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201153 Remaining issues on CN controlled subgrouping Huawei, HiSilicon,CMCC discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201155 PEI configuration and monitoring Huawei, HiSilicon discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201219 Further Consideration on Paging Subgrouping ZTE Corporation,Sanechips discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201221 Consideration on the UE capability for Paging Enhancement ZTE Corporation,Sanechips discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201269 Consideration on Paging Sub-grouping CATT discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201289 Discussion on coexistence of paging subgroup and multicast paging LG Electronics discussion

R2-2201290 Remaining issues on paging subgrouping LG Electronics discussion

R2-2201332 PEI monitoring area DENSO CORPORATION discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201339 Remaining details on subgrouping Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201463 On network control over the use of PEI Futurewei Technologies discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201541 On the co-existence of UE-ID and CN assigned subgroups Interdigital, Inc. discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201542 UE assistance for CN assigned subgroups Interdigital, Inc. discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201555 PEI in last used cell Ericsson other Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201557 Paging Early Indication and Subgroups Ericsson other Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201543 Subgroup determination Interdigital, Inc. discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

#### 8.9.2.2 TRS/CSI-RS for idle/inactive

Note that for most open issues we have been waiting for RAN1 input. There will be an activity to take RAN1 progress into account, even without tdocs input.

R2-2201677 Summary of 8.9.2.2 TRS/CSI-RS for idle/inactive (CATT) CATT

R2-2200240 Discussion on TRS/CSI-RS applicability for eDRX UEs OPPO discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2200466 Discussion on TRS CSI-RS for RRC-IDLE and RRC-INACTIVE State UE Beijing Xiaomi Mobile Softwar discussion

R2-2200593 Discussion on TRS CSI-RS in idle inactive mode vivo discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201204 R17 NR UE Power Save SIB-X sizing aspects Apple discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201220 Further Consideration on TRS for Idle and Inactive UE ZTE Corporation,Sanechips discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201240 Discussion on TRS/CSI-RS and eDRX Sharp discussion

R2-2201270 TRS/CSI-RS for idle/inactive: leftover issues CATT discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201307 Discussion on TRS/CSI-RS for idle/inactive LG Electronics Finland discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201497 Potential TRS/CSI-RS occasion(s) Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201556 TRS exposure Ericsson other Rel-17 NR\_UE\_pow\_sav\_enh-Core

#### 8.9.2.3 RLM/BFD relaxation

R2-2201684 Summary of 8.9.2.3 RLM BFD relaxation vivo

R2-2200186 Issues on RLM-BFD relaxations Qualcomm Incorporated discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2200241 Discussion on RAN2’s impact of RLM/BFD relaxation OPPO discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2200381 Discussion on RLM\_BFD measurement relaxation NEC Europe Ltd discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2200451 Further considerations for RLM/BFD relaxation Intel Corporation discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2200465 Discussion on RLM\_BFD measurement relaxation Beijing Xiaomi Mobile Softwar discussion

R2-2200594 Discussion on configurations of RLM/BFD relaxation for power saving vivo discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201156 Discussion on RLM/BFD relaxation and DCI-based power saving adaptation Huawei, HiSilicon discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201271 Consideration on RLM and BFD relaxation CATT discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201544 RLM/BFD Relaxation Reporting Interdigital, Inc. discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201578 Discussion on RLM/BFD Relaxation LG Electronics Finland discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201614 On RLM/BFD relaxation Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

#### 8.9.2.4 Other

R2-2200187 Enhancements for adaptive PDCCH monitoring Qualcomm Incorporated discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2200188 Subgrouping among paging occasions Qualcomm Incorporated discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2200200 PDCCH Skipping in RRC\_CONNECTED Samsung Electronics Co., Ltd discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201222 Initial Discussion on DCI based Power Saving ZTE Corporation,Sanechips discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

### 8.9.3 UE Capabilities

For the progress of RAN2 developed capabilities, there will be an initial offline effort, scope to take current agreements into account for Running CRs, and determine whether any additional RAN2 capability is needed. Feautre lists of other groups are taken into account under AI 8.0.2

R2-2201681 Summary of AI 8.9.3: UE capabilities Intel

R2-2200242 Discussion on UE capabilities OPPO discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2200452 UE capability for Rel-17 UE power saving Intel Corporation discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2200453 Draft running CR to 38331 on UE capabilities for Rel-17 UE power saving Intel Corporation draftCR Rel-17 38.331 16.7.0 B NR\_UE\_pow\_sav\_enh-Core

R2-2200454 Draft running CR to 38306 on UE capabilities for Rel-17 UE power saving Intel Corporation draftCR Rel-17 38.306 16.7.0 B NR\_UE\_pow\_sav\_enh-Core

R2-2200463 Discussing on UE capability for Paging enhancement Beijing Xiaomi Mobile Softwar discussion

R2-2200595 Discussion on capabilities for ePowSav vivo discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201154 UE capability design for paging subgrouping Huawei, HiSilicon discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201205 R17 NR UE Power Save UE capability aspects Apple discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

R2-2201340 RAN2 impact on connected mode power saving Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_UE\_pow\_sav\_enh-Core

## 8.10 NR Non-Terrestrial Networks (NTN)

(NR\_NTN\_solutions-Core; leading WG: RAN2; REL-17; WID: RP-211557)

Time budget: 1.5 TU

Tdoc Limitation: 4 tdocs + 1 for UE caps

Email max expectation: 5 threads

### 8.10.1 Organizational

LSs, rapporteur inputs and other organizational documents. Rapporteur inputs and other pre-assigned documents in this AI do not count towards the tdoc limitation.

 8.10.2 User Plane

R2-2200071 Reply LS on UE TA reporting (R1-2112766; contact: Ericsson) RAN1 LS in Rel-17 NR\_NTN\_solutions To:RAN2

R2-2200104 Reply LS on UE Location Aspects in NTN (R3-216067; contact: Ericsson) RAN3 LS in Rel-17 NR\_NTN\_solutions To:SA2, RAN2 Cc:CT1

R2-2200128 Reply LS on Multiple SMTCs for NR NTN (R4-2120308; contact: Qualcomm) RAN4 LS in Rel-17 NR\_NTN\_solutions-Core To:RAN2

R2-2200129 LS on NR NTN Neighbor Cell and Satellite Information (R4-2120309; contact: Qualcomm) RAN4 LS in Rel-17 NR\_NTN\_solutions-Core To:RAN2 Cc:RAN1

R2-2200145 LS on TAC reporting in ULI and support of SAs and FAs for NR Satellite Access (S2-2109337; contact: Qualcomm) SA2 LS in Rel-17 5GSAT\_ARCH To:CT1, RAN2, RAN3

R2-2200148 Reply LS on NTN specific User Consent (S3-214349; contact: Qualcomm) SA3 LS in Rel-17 NR\_NTN\_solutions-Core To:RAN2 Cc:RAN3, SA2

R2-2200149 Reply LS on UE location aspects in NTN (S3-214360; contact: CATT) SA3 LS in Rel-17 NR\_NTN\_solutions-Core, 5GSAT\_ARCH To:RAN2 Cc:RAN1, RAN3, SA2, SA3-LI, CT1

R2-2200150 Reply LS on UE location aspects in NTN (S3-214394; contact: Xiaomi) SA3 LS in Rel-17 NR\_NTN\_solutions-Core, 5GSAT\_ARCH To:RAN2 Cc:CT1, SA2, SA3-LI, RAN3

R2-2200449 [Draft] Reply LS on Multiple SMTCs for NR NTN Qualcomm Incorporated LS out Rel-17 NR\_NTN\_solutions-Core To:RAN4

R2-2200450 [Draft] Reply LS on NR NTN Neighbor Cell and Satellite Information Qualcomm Incorporated LS out Rel-17 NR\_NTN\_solutions-Core To:RAN4 Cc:RAN1

R2-2200886 Updated NR-NTN-solutions work plan THALES Work Plan Rel-17

R2-2200887 NR-NTN Stg2 running CR THALES draftCR Rel-17 38.300 16.8.0 NR\_NTN\_solutions

R2-2201002 Stage-3 running 304 CR for NTN ZTE corporation, Sanechips discussion Rel-17 38.304 NR\_NTN\_solutions-Core Withdrawn

R2-2201006 Stage-3 running 304 CR for NTN ZTE corporation, Sanechips draftCR Rel-17 38.304 16.7.0 B NR\_NTN\_solutions-Core

R2-2201166 MAC open issues in NTN - RAN2#116bis-e InterDigital discussion Rel-17 NR\_NTN\_solutions-Core

R2-2201167 Stage 3 NTN running CR for 38.321 - RAN2#116bis-e InterDigital draftCR Rel-17 38.321 16.7.0 NR\_NTN\_solutions-Core R2-2111615

R2-2201405 DRAFT Reply LS on TAC reporting in ULI and support of SAs and FAs for NR Satellite Access China Telecommunications LS out Rel-17 To:SA2, RAN3, CT1

R2-2201433 Stage-3 running RRC CR for NTN Rel-17 Ericsson draftCR Rel-16 38.331 16.7.0 B NR\_NTN\_enh-Core

#### 8.10.2.1 RACH aspects

Focus on TA reporting aspects

R2-2200214 Discussion on remaining issues on TA reporting Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200243 Discussion on RACH and TA report in NTN OPPO discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200270 Remaining issues related to TA report Xiaomi discussion Rel-17

R2-2200347 Remaining issues about RACH and TA reporting Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200377 Discussion on UE specific TA reporting vivo discussion

R2-2200520 Consideration of TA report remaining issues of NTN China Telecom discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200627 TA report procedure Spreadtrum Communications discussion Rel-17

R2-2200688 The Left Issues on UE-specific TA information reporting in NTN CATT discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200746 Discussion on TA report during RA procedure ASUSTeK discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200747 Discussion on issue of restarting contention resolution timer ASUSTeK discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200764 Further discussion on TA reporting in NTN Lenovo, Motorola Mobility discussion Rel-17

R2-2200876 Considerations on RACH aspects CMCC discussion Rel-17 NR\_NTN\_solutions-Core

R2-2201007 Discussion on RACH open issues and TA reporting aspects Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

R2-2201034 Further considerations on TA reporting Samsung Research America discussion NR\_NTN\_solutions-Core

R2-2201164 UE-specific TA reporting and other RACH aspects InterDigital discussion Rel-17 NR\_NTN\_solutions-Core

R2-2201193 Remaining issues on TA Report NEC Telecom MODUS Ltd. discussion

R2-2201324 Consideration on remaining issues of RACH aspects ZTE Corporation, Sanechips discussion Rel-17

R2-2201363 Discussion on RACH and TA report aspects LG Electronics Inc. discussion NR\_NTN\_solutions-Core

R2-2201630 Reporting information about UE specific TA pre-compensation in NTNs Ericsson discussion

#### 8.10.2.2 Other MAC aspects

Focus on remaining aspects of timers, HARQ, and LCP including CG/SPS aspects

R2-2200244 Remaining issues on other MAC aspects in NTN OPPO discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200271 Remaining issues related to HARQ retransmission state Xiaomi discussion Rel-17

R2-2200348 Remaining issues about other MAC aspects Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200444 HARQ process for SPS and CG Qualcomm Incorporated discussion Rel-17 NR\_NTN\_solutions-Core R2-2109968

R2-2200618 Remaining issues on disabling uplink HARQ retransmission MediaTek Inc. discussion

R2-2200619 Round trip delay offset for configured grant timer MediaTek Inc. discussion

R2-2200628 Discussion on HARQ and LCP remaining issues Spreadtrum Communications discussion Rel-17

R2-2200689 Left Issues on DL/UL HARQ Aspects CATT discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200787 Remaining issues on HARQ related timer handling for NR NTN vivo discussion

R2-2200788 Remaining issues on LCP aspects vivo discussion

R2-2200870 Further Considerations on CG/SPS for NR NTN CMCC discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200911 CG enhancements in NTN Sony discussion Rel-17 NR\_NTN\_solutions-Core

R2-2201008 Discussion on left issues on MAC aspects Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

R2-2201163 Remaining MAC open issues in NTN InterDigital discussion Rel-17 NR\_NTN\_solutions-Core

R2-2201325 Consideration on remaining issues of other MAC aspects ZTE Corporation, Sanechips discussion Rel-17

R2-2201364 Discussion on other MAC aspects LG Electronics Inc. discussion NR\_NTN\_solutions-Core

R2-2201480 HARQ State A/B for CG/SPS aspects ITL discussion

R2-2201629 On configured scheduling, DRX, LCP, HARQ and SR/BSR in NTNs Ericsson discussion

#### 8.10.2.3 RLC and PDCP aspects

This sub-AI will not be treated at R2-116bis-e. No contributions are expected

R2-2201194 RLC t-Reassembly timer NEC Telecom MODUS Ltd. discussion R2-2110766

### 8.10.3 Control Plane

#### 8.10.3.1 General aspects

Including Earth fixed/moving beams related issues, TAC update / reporting and LCS aspects (i.e. UE location information reporting)

R2-2200212 Discussion on location reporting Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200245 Discussion on UE location information reporting OPPO discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200289 Discussion on UE location reporting Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200445 Discussion on coarse UE location report Qualcomm Incorporated discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200629 Discussion on TAC update and LCS in NTN Spreadtrum Communications discussion Rel-17

R2-2200715 Discussion on UE location reporting in NTN Xiaomi discussion

R2-2200748 Discussion on event triggered based UE location report ASUSTeK discussion Rel-17 NR\_NTN\_solutions-Core R2-2111007

R2-2200765 Remaining CHO issues in RRC running CR Lenovo, Motorola Mobility discussion Rel-17

R2-2200869 Views on UE Location Information Reporting in NTN CMCC discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200879 UE location during initial access THALES discussion Rel-17

R2-2200912 Event triggered location reporting in NTN Sony discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200960 Reporting virtual location identifier for AMF/PLMN selection and location verification in NTN Fraunhofer IIS; Fraunhofer HHI; Thales discussion

R2-2200987 On reporting of UE location information ZTE corporation, Sanechips discussion Rel-17 NR\_NTN\_solutions-Core

R2-2201080 On LCS and TAC handling in Rel-17 NTN Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

R2-2201178 On UE location reporting in NTN Apple discussion Rel-17 NR\_NTN\_solutions-Core

R2-2201404 Discussion of reply LS on TAC reporting in NTN China Telecom discussion

R2-2201408 Discussion on left issues on UE location report CATT discussion Rel-17 NR\_NTN\_solutions-Core

R2-2201445 General aspects for NTN Ericsson discussion NR\_NTN\_enh-Core

R2-2201447 Remaining issues on TAC selection and reporting in NTN Samsung R&D Institute UK discussion

R2-2201579 UE location reporting in initial access Samsung Research America discussion

#### 8.10.3.2 Idle/Inactive mode

Focus on system information aspects

R2-2200215 Discussion on TN prioritization over NTN for idle mode Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200216 Discussion on enhancements to cell reselection Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200246 Discussion on NTN specific system information OPPO discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200290 Discussion on idle mode aspects Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200342 System information to assist cell reselection ITRI discussion NR\_NTN\_solutions-Core

R2-2200378 Remaining issues on idle/inactive mode mobility vivo discussion

R2-2200446 Cell type indication Qualcomm Incorporated discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200447 IDLE mode measurements Qualcomm Incorporated discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200621 Idle mode mobility for NTN-TN scenarios MediaTek Inc. discussion R2-2105253

R2-2200630 Acquiring the ephemeris of neighbour cell Spreadtrum Communications discussion Rel-17

R2-2200650 Discussion on NTN Idle mode measurement and cell reselection Transsion Holdings discussion Rel-17

R2-2200665 Remaining idle mode issues in NTN LG Electronics Inc. discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200690 Further Discussion on the Leftover Issues of IDLE/INACTIVE CATT discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200716 Discussion on RRC idle mode issues Xiaomi discussion

R2-2200766 Ephemeris provision in system information for NTN Lenovo, Motorola Mobility discussion Rel-17

R2-2200767 Further discussion on idle mode mobility in NTN Lenovo, Motorola Mobility discussion Rel-17

R2-2200877 Further Considerations on Cell Re-selection CMCC discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200933 SMTC Adjustment for Idle and Inactive UEs in NTN Google Inc. discussion

R2-2201003 System information for NTN and idle mode mobility for intra-NTN and TN-NTN case ZTE corporation, Sanechips discussion Rel-17 NR\_NTN\_solutions-Core

R2-2201079 On IDLE mode aspects in Rel-17 NTN Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_NTN\_solutions-Core

R2-2201139 On Defining a New NTN-Specific SIB MediaTek Inc. discussion

R2-2201165 Location-assisted cell reselection InterDigital discussion Rel-17 NR\_NTN\_solutions-Core

R2-2201179 NTN-TN idle mode mobility Apple discussion Rel-17 NR\_NTN\_solutions-Core

R2-2201180 NTN Ephemeris definition and signaling Apple discussion Rel-17 NR\_NTN\_solutions-Core R2-2110043

R2-2201195 Location-assisted cell reselection NEC Telecom MODUS Ltd. discussion

R2-2201196 NTN to TN mobility in Idle or Inactive mode NEC Telecom MODUS Ltd. discussion

R2-2201446 Idle mode aspects for NTN Ericsson discussion NR\_NTN\_enh-Core

R2-2201580 Measurements and cell reselection Samsung Research America discussion

R2-2201615 Discussion on system information enhancement for NR NTN Turkcell, BT Plc, Deutsche Telekom, Aselsan discussion Rel-17

#### 8.10.3.3 Connected mode

This sub-AI will not be treated at R2-116bis-e. No contributions are expected

R2-2200247 Discussion on NTN UE capabilities OPPO discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200666 Connected mode remaining issues in NTN LG Electronics Inc. discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200913 SMTC enhancement in NTN Sony discussion Rel-17 NR\_NTN\_solutions-Core R2-2108067

R2-2201004 Leftover issues in CHO and measurements ZTE corporation, Sanechips discussion Rel-17 NR\_NTN\_solutions-Core

### 8.10.4 UE capabilities

Including Features / UE caps developed in RAN2. Note that this AI is complementary to AI 8.0.2. NOTE please don’t input on aspects treated in the email discussion.

Including outcome of:

{Post116-e][111][NTN] UE capabilities (Intel)

R2-2200040 Report of email discussion [Post116-e][111][NTN] UE capabilities (Intel) Intel Corporation discussion NR\_NTN\_solutions-Core

R2-2200041 Draft 331 CR for NR NTN UE capabilities Intel Corporation draftCR Rel-17 38.331 16.7.0 B NR\_NTN\_solutions-Core

R2-2200042 Draft 306 CR for NR NTN UE capabilities Intel Corporation draftCR Rel-17 38.306 16.7.0 B NR\_NTN\_solutions-Core

R2-2200213 Discussion on remaining issues on NR NTN UE capabilities Intel Corporation discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200291 Discussion on UE capabilities Huawei, HiSilicon discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200376 Remaining issues on UE capability for Rel-17 NTN vivo discussion

R2-2200448 Discussion on UE capabilities Qualcomm Incorporated discussion Rel-17 NR\_NTN\_solutions-Core

R2-2200620 On UE Capabilities in NR-NTN MediaTek Inc. discussion

R2-2201545 L2 buffer calculation and QoS requirement Interdigital, Inc. discussion Rel-17 NR\_NTN\_solutions-Core

R2-2201632 NR NTN UE capabilities Ericsson discussion

## 8.11 NR positioning enhancements

(NR\_pos\_enh-Core; leading WG: RAN1; REL-17; WID: RP-210903)

Time budget: 2 TU

Tdoc Limitation: 7 tdocs

Email max expectation: 7 threads

### 8.11.1 Organizational

Rapporteur input. Incoming LS etc. This AI is reserved for rapporteur and organizational inputs; documents in this AI do not count towards the tdoc limitation.

R2-2200074 LS on latency improvement for PRS measurement with MG (R1-2112784; contact: Huawei) RAN1 LS in Rel-17 NR\_pos\_enh To:RAN2, RAN3

R2-2200082 LS on TRP beam/antenna information (R1-2112844; contact: Ericsson) RAN1 LS in Rel-17 NR\_pos\_enh To:RAN2, RAN3

R2-2200083 LS on configuration and transmission of SRS for positioning in RRC\_INACTIVE state (R1-2112846; contact: Intel) RAN1 LS in Rel-17 NR\_pos\_enh-Core To:RAN2

R2-2200089 LS on PRS processing window (R1-2112881; contact: Huawei) RAN1 LS in Rel-17 NR\_pos\_enh To:RAN2, RAN3

R2-2200092 LS on the reporting of the Tx TEG association information (R1-2112968; contact: CATT) RAN1 LS in Rel-17 NR\_pos\_enh-Core To:RAN2, RAN4 Cc:RAN3

R2-2200113 Reply LS on location estimates in local co-ordinates (R3-216235; contact: Huawei) RAN3 LS in Rel-17 5G\_eLCS\_ph2 To:RAN1, SA2 Cc:RAN2

R2-2200139 Reply LS on Response LS on Positioning Reference Units (PRUs) for enhancing positioning performance (S2-2109104; contact: Huawei) SA2 LS in Rel-17 NR\_pos\_enh-Core To:RAN2 Cc:RAN1, RAN3

R2-2200140 Response LS on Positioning Reference Units (PRUs) for enhancing positioning performance (S2-2109105; contact: CATT) SA2 LS in Rel-17 5G\_eLCS\_ph2 To:RAN1, RAN2 Cc:RAN3

R2-2200282 Running 38.305 CR for Positioning WI on RAT dependent positioning methods Intel Corporation draftCR Rel-17 38.305 16.7.0 B NR\_pos\_enh-Core

R2-2200284 Rel-17 positioning capabilities Intel Corporation discussion Rel-17 NR\_pos\_enh-Core

R2-2200285 Open issue lists on Rel-17 positioning WI Intel Corporation discussion Rel-17 NR\_pos\_enh-Core

R2-2200302 [Draft]Reply LS on the Response LS on Positioning Reference Units (PRUs) for enhancing positioning performance CATT LS out Rel-17 NR\_pos\_enh-Core To:SA2 Cc:RAN1, RAN3

R2-2200431 Draft running CR for MAC spec in R17 positioning Huawei, HiSilicon draftCR Rel-17 38.321 16.7.0 B NR\_pos\_enh-Core

R2-2200432 Draft running CR for LTE RRC spec for GNSS integrity in R17 positioning Huawei, HiSilicon draftCR Rel-17 36.331 16.7.0 B NR\_pos\_enh-Core

R2-2200433 Draft running CR for stage2 spec for NAVIC in R17 positioning Huawei, HiSilicon draftCR Rel-17 38.305 16.7.0 B NR\_pos\_enh-Core

R2-2200523 [Draft] Response LS on the latency improvement for PRS measurement with MG ZTE LS out To:RAN1 Cc:RAN3

R2-2200524 [Draft] Response LS on the PRS processing window ZTE LS out To:RAN1 Cc:RAN3

R2-2200525 [Draft] Response LS on the reporting of the Tx TEG association information ZTE LS out To:RAN1 Cc:RAN3,RAN4

R2-2200526 [Draft] Response LS on the TRP beam antenna information ZTE LS out To:RAN1 Cc:RAN3

R2-2200527 Discussion on signalling support of RAN1 agreements ZTE discussion

R2-2200959 Running LPP CR for NR positioning enhancements Qualcomm Incorporated draftCR Rel-17 37.355 16.7.0 B NR\_pos\_enh

R2-2200961 [draft] LS on Positioning in RRC\_INACTIVE State Qualcomm Incorporated LS out Rel-17 NR\_pos\_enh To:SA2 Cc:RAN3

R2-2201066 Beam/antenna information for DL AOD in NR positioning Ericsson discussion Rel-17

R2-2201390 Running CR of 36.305 for GNSS Positioning Integrity InterDigital, Inc. draftCR Rel-17 36.305 16.4.0 B NR\_pos\_enh-Core

R2-2201391 Running CR of 38.305 for GNSS Positioning Integrity InterDigital, Inc. draftCR Rel-17 38.305 16.7.0 B NR\_pos\_enh-Core

### 8.11.2 Latency enhancements

Enhancements of signalling, and procedures for improving positioning latency of the Rel-16 NR positioning methods, for DL and DL+UL positioning methods. Including scheduled location time, preconfigured assistance data, UE capability storage, measurement gap and PRS priority; any other topics will be treated at lower priority. This agenda item will utilise a summary document.

R2-2200256 Discussion on positioning latency reduction ZTE discussion

R2-2200278 Leftover issues on Latency reduction Intel Corporation discussion Rel-17 NR\_pos\_enh-Core

R2-2200279 RAN1 issues on Latency reduction Intel Corporation discussion Rel-17 NR\_pos\_enh-Core

R2-2200304 Discussion on latency reduction enhancement CATT discussion Rel-17 NR\_pos\_enh-Core

R2-2200326 Discussion on latency enhancement vivo discussion Rel-17 NR\_pos\_enh-Core

R2-2200428 Discussion on PRS preconfiguration Huawei, HiSilicon discussion Rel-17 NR\_pos\_enh-Core

R2-2200430 Discussion on MG/PPW enhancement for positioning Huawei, HiSilicon discussion Rel-17 NR\_pos\_enh-Core

R2-2200559 Further consideration of positioning latency enhancements OPPO discussion Rel-17 NR\_pos\_enh-Core

R2-2200709 Positioning enhancement on latency reduction. Xiaomi discussion

R2-2200730 Discussion on the response time Samsung discussion Rel-17 NR\_pos\_enh-Core

R2-2200914 Considerations on positioning latency Sony discussion Rel-17 NR\_pos\_enh-Core

R2-2200958 Providing a list of AD for reducing signalling load and latency Fraunhofer IIS; Fraunhofer HHI; Ericsson; Lenovo; Vivo discussion

R2-2200962 Remaining Issues on Scheduling Location in Advance Qualcomm Incorporated discussion

R2-2200988 On Positioning Latency Reduction Enhancements Lenovo, Motorola Mobility discussion Rel-17

R2-2201069 Discussion On RRC and MAC Impacts, TP on RRC Impacts Ericsson discussion Rel-17

R2-2201184 Discussion on Enhancements for Latency Reduction InterDigital, Inc. discussion Rel-17 NR\_pos\_enh-Core

R2-2201185 Discussion on Measurement Gap and PRS Priority Enhancements InterDigital, Inc. discussion Rel-17 NR\_pos\_enh-Core

R2-2201309 Simulation study for multiple QoS class handling for latency reduction Samsung R&D Institute UK discussion

R2-2201311 Handling of multiple QoS for latency reduction Samsung R&D Institute UK discussion R2-2111083

R2-2201312 Latency reduction via new measurement gap activation Samsung R&D Institute UK discussion

### 8.11.3 RRC\_INACTIVE

Methods, measurements, signalling and procedures to support positioning for UEs in RRC\_ INACTIVE state, for UE-based and UE-assisted positioning solutions. UL and DL+UL NR positioning methods and gNB positioning measurements for UEs in RRC\_INACTIVE are treated at lower priority. This agenda item will utilise a summary document.

R2-2200257 Discussion on positioning in RRC INACTIVE state ZTE discussion

R2-2200280 Support of UL&UL+DL positioning in RRC\_INACTIVE Intel Corporation discussion Rel-17 NR\_pos\_enh-Core

R2-2200295 Impact on SA2 with DL NR positioning in RRC\_INACTIVE CATT, Ericsson discussion Rel-17 NR\_pos\_enh-Core

R2-2200296 Discussion on UL NR Positioning in RRC\_INACTIVE state CATT discussion Rel-17 NR\_pos\_enh-Core

R2-2200327 Discussion on positioning in RRC\_INACTIVE vivo discussion Rel-17 NR\_pos\_enh-Core

R2-2200424 Way-forward for RRC\_INACTIVE positioning Huawei, CATT, China Unicom, CMCC, Fraunhofer, Futurewei, HiSilicon, Intel Corporation, Spreadtrum Communications, OPPO, VIVO, Xiaomi, ZTE Corporation discussion Rel-17 NR\_pos\_enh-Core

R2-2200425 Remaining issues on RRC\_INACTIVE DL Postioning Huawei, HiSilicon discussion Rel-17 NR\_pos\_enh-Core

R2-2200710 Discussion on positioning for UE in RRC Inactive Xiaomi discussion

R2-2200731 Discussion on the measurement reporting in RRC\_INACTIVE Samsung discussion Rel-17 NR\_pos\_enh-Core

R2-2200781 Discussion on Positioning in RRC\_INACTIVE state OPPO discussion Rel-17 NR\_pos\_enh-Core

R2-2200957 Remaining Details for RRC\_INACTIVE Positioning in Uplink Fraunhofer IIS; Fraunhofer HHI discussion Rel-17 R2-2110249

R2-2200963 Remaining issues for positioning of UEs in RRC\_INACTIVE State Qualcomm Incorporated discussion

R2-2200989 Remaining aspects on RRC\_INACTIVE Positioning Lenovo, Motorola Mobility discussion Rel-17

R2-2201065 Discussion on RRC Inactive mode Positioning Ericsson discussion Rel-17

R2-2201068 Summary of AI 8.11.3 RRC\_INACTIVE Ericsson discussion Rel-17 Late

R2-2201186 Discussion on Positioning in RRC INACTIVE state InterDigital, Inc. discussion Rel-17 NR\_pos\_enh-Core

R2-2201528 Positioning in RRC\_INACTIVE Nokia Germany discussion Rel-17

### 8.11.4 On-demand PRS

Specify UE-initiated and LMF-initiated on-demand transmission and reception of DL PRS for DL and DL+UL positioning for UE-based and UE-assisted positioning solutions.

Including outcome of [Post116-e][601][POS] Network control and UE request for on-demand PRS parameters (Ericsson)

R2-2200047 Report on Procedures and signalling for on-demand PRS Ericsson discussion

R2-2200258 Discussion on on-demand PRS ZTE discussion

R2-2200281 Support of On-Demand PRS request Intel Corporation discussion Rel-17 NR\_pos\_enh-Core

R2-2200303 Discussion on on-demand PRS CATT discussion Rel-17 NR\_pos\_enh-Core

R2-2200328 Discussion on on-demand PRS vivo discussion Rel-17 NR\_pos\_enh-Core

R2-2200426 Discussion on on-demand PRS Huawei, HiSilicon discussion Rel-17 NR\_pos\_enh-Core

R2-2200711 Positioning enhancement about on-demand DL PRS Xiaomi discussion

R2-2200780 Discussion on on-demand DL-PRS OPPO discussion Rel-17 NR\_pos\_enh-Core

R2-2200915 Considerations on positioning PRS On-demand and two stage beam sweeping Sony discussion Rel-17 NR\_pos\_enh-Core

R2-2200956 On-demand PRS Fraunhofer IIS, Fraunhofer HHI discussion Rel-17 R2-2110247 Withdrawn

R2-2200964 Remaining issues for on-demand DL-PRS Qualcomm Incorporated discussion

R2-2200993 Remaining issues on On-Demand DL-PRS Lenovo, Motorola Mobility discussion Rel-17

R2-2201067 Remaining issues on On-demand PRS Ericsson discussion Rel-17

R2-2201103 On the need for additional On-Demand PRS enhancements Apple discussion NR\_pos\_enh-Core

R2-2201187 Discussion on On-demand PRS InterDigital, Inc. discussion Rel-17 NR\_pos\_enh-Core

R2-2201257 Network Control Mechanisms for On-demand PRS Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_pos\_enh-Core

R2-2201267 On the on-demand PRS Stage 2 Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_pos\_enh-Core

R2-2201273 Pre-configured and Pre-defined PRS Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_pos\_enh-Core

R2-2201313 On-demand PRS request and configuration Samsung R&D Institute UK discussion

R2-2201627 On-demand PRS Fraunhofer IIS, Fraunhofer HHI discussion Rel-17 R2-2110247

### 8.11.5 GNSS positioning integrity

Signalling, and procedures to support GNSS positioning integrity determination.

Including outcome of [Post116-e][602][POS] Stage 2 baseline for integrity assistance data (Swift)

R2-2200012 [Post116-e][602][POS] Stage 2 baseline for integrity assistance data (Swift) Swift discussion 36.305

R2-2200013 Running CR on 36.305 for Stage 2 integrity assistance data Swift draftCR Rel-17 36.305 16.4.0 B NR\_pos\_enh-Core

R2-2200014 Running CR on 38.305 for Stage 2 integrity assistance data Swift draftCR Rel-17 38.305 16.7.0 B NR\_pos\_enh-Core

R2-2200185 Signalling for GNSS Positioning Integrity Framework Nokia, Nokia Shanghai Bell discussion Rel-17 FS\_NR\_pos\_enh

R2-2200259 Discussion on positioning integrity ZTE discussion

R2-2200329 Discussion on GNSS positioning integrity vivo discussion Rel-17 NR\_pos\_enh-Core

R2-2200427 Remaining issues on positioning integrity Huawei, HiSilicon discussion Rel-17 NR\_pos\_enh-Core

R2-2200955 UE-aided detection of threat to GNSS systems and assistance data signaling Fraunhofer IIS; Fraunhofer HHI; Ericsson; ESA discussion R2-2110246

R2-2201063 On GNSS Integrity Ericsson discussion Rel-17

R2-2201188 Discussion on GNSS Positioning Integrity InterDigital, Inc. discussion Rel-17 NR\_pos\_enh-Core

R2-2201214 Stage 3 Proposals on GNSS Positioning Integrity Swift Navigation, Mitsubishi Electric Corporation, Ericsson discussion Rel-17

R2-2201314 Consideration on the signalling design for Positioning Integrity for UE-based method Samsung R&D Institute UK discussion

### 8.11.6 A-GNSS enhancements

Including support of BDS B2a and B3I signals and support of NavIC. This agenda item will not be treated online. Critical issues, if any, may be handled by email.

R2-2200298 Introduction of B2a and B3I signal in BDS system in A-GNSS CATT, CAICT draftCR Rel-17 37.355 16.7.0 B NR\_pos\_enh-Core

R2-2201070 Impacts of NavIC in NR RRC Ericsson discussion Rel-17

### 8.11.7 Accuracy enhancements

Input on the accuracy enhancement objectives led by RAN1. This agenda item will not be treated online. Critical issues, if any, may be handled by email.

R2-2200283 Support of PRU Intel Corporation discussion Rel-17 NR\_pos\_enh-Core

R2-2200297 Discussion on additional TRP beam/antenna information CATT discussion Rel-17 NR\_pos\_enh-Core

R2-2200299 Discussion on stage-2 impact of mitigating UE and TRP RxTx timing delays CATT discussion Rel-17 NR\_pos\_enh-Core

R2-2200300 Discussion on LPP and RRC signaling impact of mitigating UE and TRP RxTx timing delays CATT discussion Rel-17 NR\_pos\_enh-Core

R2-2200301 [Draft]Reply LS on the reporting of the Tx TEG association information CATT LS out Rel-17 NR\_pos\_enh-Core To:RAN1, RAN3 Cc:RAN4

R2-2200330 Discussion on accuracy enhancements vivo discussion Rel-17 NR\_pos\_enh-Core

R2-2200429 Discussion on accuracy enhancement Huawei, HiSilicon discussion Rel-17 NR\_pos\_enh-Core

R2-2200712 Discussion on positioning reference unit Xiaomi discussion

R2-2200916 Considerations on Timing Error aspects Sony discussion Rel-17 NR\_pos\_enh-Core

R2-2200994 Support of Positioning Reference Units Lenovo, Motorola Mobility discussion Rel-17

R2-2201062 LPP Positioning enhancements on timing errors , DL-AoD and LoS/NLoS/multipath Ericsson discussion Rel-17

R2-2201064 On the Positioning Reference Units aspects Ericsson discussion Rel-17

R2-2201087 Way forward on PRUs for Rel-17 MediaTek Inc., Apple discussion Rel-17 NR\_pos\_enh-Core

R2-2201104 Signalling impacts of RAN1 agreements on accuracy enhancements Apple discussion NR\_pos\_enh-Core

R2-2201189 Discussion on Accuracy Enhancements InterDigital, Inc. discussion Rel-17 NR\_pos\_enh-Core

R2-2201191 Discussion on supporting Positioning Reference Units InterDigital, Inc. discussion Rel-17 NR\_pos\_enh-Core

R2-2201360 Discussion on accuracy improvement for UE-assisted DL-AOD positioning vivo discussion Rel-17 NR\_pos\_enh-Core

### 8.11.8 Other

Input on other WI objectives. This agenda item will not be treated online. Critical issues, if any, may be handled by email.

R2-2200331 Discussion on positioning reference unit vivo discussion Rel-17 NR\_pos\_enh-Core

R2-2200438 Summary of email discussion for PRU Huawei, HiSilicon discussion Rel-17 NR\_pos\_enh-Core Late

R2-2200965 On PRU support in Release-17 Qualcomm Incorporated discussion

## 8.12 Reduced Capability

(NR\_redcap-Core; leading WG: RAN1; REL-17; WID: RP-211574)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 4 threads

### 8.12.1 Organizational

LSs, rapporteur inputs and other organizational documents. Rapporteur inputs and other pre-assigned documents in this AI do not count towards the tdoc limitation.

R2-2200068 Reply LS on capability related RAN2 agreements for RedCap (R1-2112754; contact: Ericsson) RAN1 LS in Rel-17 NR\_redcap-Core To:RAN2 Cc:RAN4

R2-2200075 LS on use of NCD-SSB or CSI-RS in DL BWPs for RedCap UE (R1-2112802; contact: Ericsson) RAN1 LS in Rel-17 NR\_redcap-Core To:RAN2, RAN4

R2-2200131 Reply LS on use of NCD-SSB for RedCap UE (R4-2120327; contact: ZTE) RAN4 LS in Rel-17 NR\_redcap-Core To:RAN1 Cc:RAN2

R2-2201531 Running 38300 CR for RedCap Nokia, Nokia Shanghai Bell draftCR Rel-17 38.300 16.8.0 NR\_redcap-Core

R2-2201549 Running CR for the RedCap WI Ericsson draftCR Rel-17 38.304 16.7.0 B NR\_redcap-Core

R2-2201564 Running RRC CR for the RedCap WI Ericsson draftCR Rel-16 38.331 16.7.0 B NR\_redcap-Core

### 8.12.2 Framework for reduced capabilities

No contribution is expected to this agenda item but directly to the sub-agenda items.

#### 8.12.2.1 Definition of RedCap UE type and reduced capabilities

Including discussion on possible "fallback operation"

R2-2200189 Support for fallback operation by RedCap UEs Qualcomm Incorporated discussion Rel-17 NR\_redcap-Core

R2-2200248 Discussion on RedCap UE's fallback operation OPPO discussion Rel-17 NR\_redcap-Core

R2-2200286 Open issues on RedCap capabilities Intel Corporation discussion Rel-17 NR\_redcap

R2-2200350 Discussion on allowing RedCap UEs to be served as normal UEs NEC Corporation discussion

R2-2200553 Definition and reduced capabilities for RedCap UE Huawei, HiSilicon discussion Rel-17 NR\_redcap-Core

R2-2200596 Discussion on UE type and reduced capabilities for RedCap UEs vivo, Guangdong Genius discussion Rel-17 NR\_redcap-Core

R2-2200685 Discussion on supporting fallback operation for Redcap UEs CATT discussion Rel-17 NR\_redcap-Core

R2-2200798 RedCap UE access in legacy gNB Ericsson discussion Rel-17 NR\_redcap-Core

R2-2201114 Optional support of more than 8 DRB for RedCap Apple, Facebook Inc discussion NR\_redcap-Core R2-2110093

R2-2201206 Discussion on fallback operation of RedCap UEs LG Electronics UK discussion Rel-17

R2-2201231 Support for fallback operation by RedCap UEs Sierra Wireless. S.A. discussion

R2-2201434 RedCap cell selection and cell reselection BT Plc, Nokia, Nokia Shanghai Bell, Turkcell, Deutsche Telekom, Orange, Telecom Italia S.p.A. discussion Rel-17

#### 8.12.2.2 Identification, access and camping restrictions

Focus on system information aspects (common aspects related to RACH partitioning shall be submitted to 8.18)

Also including discussion on "NCD-SSB"

R2-2200190 Discussions on RedCap-specific BWPs Qualcomm Incorporated discussion Rel-17 NR\_redcap-Core

R2-2200208 Cell barring aspects Samsung Electronics Co., Ltd discussion Rel-17 NR\_redcap-Core

R2-2200249 Discussion on RedCap UE's identification and camping restrictions OPPO discussion Rel-17 NR\_redcap-Core

R2-2200287 Open issues on Early identification, camping restrictions and NCD-SSB Intel Corporation discussion Rel-17 NR\_redcap

R2-2200332 Cell (re)selection details for RedCap UEs Samsung Electronics discussion Rel-17 NR\_redcap-Core

R2-2200343 System Information and supporting for RedCap UEs KDDI Corporation discussion Rel-17 R2-2111150

R2-2200401 BWP configuration for RedCap UE DENSO CORPORATION discussion Rel-17 NR\_redcap-Core

R2-2200468 Discussion on UE access restrictions for Redcap devices Beijing Xiaomi Mobile Softwar discussion

R2-2200469 Discussion on early Identification for Redcap devices Beijing Xiaomi Mobile Softwar discussion

R2-2200554 Identification and access restriction of RedCap UE, and NCD-SSB related issues Huawei, HiSilicon discussion Rel-17 NR\_redcap-Core

R2-2200568 Camping restrictions of RedCap UE Fujitsu discussion Rel-17 NR\_redcap-Core

R2-2200597 Remaining issues on NCD SSB, identification and access for RedCap vivo, Guangdong Genius discussion Rel-17 NR\_redcap-Core

R2-2200608 Discussion on separate initial BWP and NCD-SSB for RedCap UE ZTE Corporation, Sanechips discussion Rel-17 NR\_redcap-Core

R2-2200609 On Access and Camping Restrictions ZTE Corporation, Sanechips discussion Rel-17 NR\_redcap-Core

R2-2200616 Further considerations on access restrictions NEC discussion Rel-17 NR\_redcap-Core

R2-2200639 Discussion on the open issues of identification and access restrictions for RedCap UE Spreadtrum Communications discussion Rel-17

R2-2200686 Discussion on the remaining issues of early identification and IFRI CATT discussion Rel-17 NR\_redcap-Core

R2-2200725 Corrections for cellBarred in MIB handling for RedCap UE InterDigital, Europe, Ltd. discussion Rel-17

R2-2200797 Early indication & access restriction for RedCap UEs Ericsson discussion Rel-17 NR\_redcap-Core

R2-2200830 Using NCD-SSB or CSI-RS in DL BWPs for RedCap UEs Ericsson discussion Rel-17 NR\_redcap-Core

R2-2200831 [DRAFT] Reply LS on the use of NCD-SSB or CSI-RS in DL BWPs for RedCap UEs Ericsson LS out Rel-17 NR\_redcap-Core To:RAN1 Cc:RAN4

R2-2200836 NR-REDCAP access restriction/allowance indication to ease mobility THALES discussion

R2-2200861 Discussion on access restrictions and early identification CMCC discussion Rel-17 NR\_redcap-Core

R2-2200862 Discussion on use of NCD-SSB or CSI-RS in DL BWPs for RedCap UE CMCC discussion Rel-17 NR\_redcap-Core

R2-2201113 RedCap UE power-saving aspects at cell re-selection Apple discussion NR\_redcap-Core

R2-2201207 Discussion on identification and access restrictions for RedCap UEs LG Electronics UK discussion Rel-17

R2-2201232 Early identification and camping restrictions for RedCap UE Sierra Wireless. S.A. discussion

R2-2201237 Neighbour cell information and cell (re)selection for RedCap UE DENSO CORPORATION discussion Rel-17 NR\_redcap-Core R2-2109646

R2-2201435 Support and network behaviour for RedCap early indication messages BT Plc, Deutsche Telekom AG, Telecom Italia S.p.A., TurkCell, CMCC, NTT DOCOMO INC., Orange, Vodafone discussion Revised

R2-2201461 Aspects related to use of NCD-SSB MediaTek Inc. discussion Rel-17 NR\_redcap-Core

R2-2201587 Further details of identification, access, and camping restrictions Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_redcap-Core

R2-2201623 Support and network behaviour for RedCap early indication messages BT Plc, Deutsche Telekom AG, Telecom Italia S.p.A., TurkCell, CMCC, NTT DOCOMO INC., Orange, Vodafone, KDDI discussion Rel-17 R2-2201435

### 8.12.3 UE power saving and battery lifetime enhancement

No contribution is expected to this agenda item but directly to the sub-agenda items.

#### 8.12.3.1 eDRX cycles

Extended DRX enhancements for RRC Inactive and Idle.

This sub-AI will not be treated at R2-116bis-e. No contributions are expected

#### 8.12.3.2 RRM relaxations

Measurement-based stationarity criterion and related not-at-cell-edge criterion, for RRC Inactive, Idle and Connected.

Main focus on the "FFS: whether UE Assistance Information or legacy measurement reporting framework should be used by UE to report its relaxation status" (with the intention to close the discussion and not come back to this in February meeting)

R2-2200191 Remaining issues on RRM relaxation Qualcomm Incorporated discussion Rel-17 NR\_redcap-Core

R2-2200250 Discussion on RRM relax OPPO discussion Rel-17 NR\_redcap-Core

R2-2200288 Open issues on RRM measurement relaxation Intel Corporation discussion Rel-17 NR\_redcap

R2-2200467 Discussion on RRM measurement relaxation for redcap Beijing Xiaomi Mobile Softwar discussion

R2-2200549 RRM measurement relaxation in RedCap Samsung discussion Rel-17

R2-2200555 RRM measurement relaxation for RedCap UE Huawei, HiSilicon discussion Rel-17 NR\_redcap-Core

R2-2200598 RRM relaxation for neighboring cell vivo, Guangdong Genius discussion Rel-17 NR\_redcap-Core

R2-2200610 Further discussion on RRM relaxation for RedCap UE ZTE Corporation, Sanechips discussion Rel-17 NR\_redcap-Core

R2-2200667 Remaining issues in RRM relaxation LG Electronics Inc. discussion Rel-17 NR\_redcap-Core

R2-2200687 Further Discussion on RRM Relaxations CATT discussion Rel-17 NR\_redcap-Core

R2-2201088 On the need for a separate reference Srxlev value for evaluating R17 stationary criterion for RRM relaxation Futurewei Technologies discussion Rel-17 NR\_redcap-Core

R2-2201101 On a timing issue when both R16 low mobility and R17 stationary criteria are configured for a UE Futurewei Technologies discussion Rel-17 NR\_redcap-Core

R2-2201239 RRM relaxation in RRC\_CONNECTED for RedCap UEs Sharp discussion R2-2110287

R2-2201337 Open issues on RRM relaxations DENSO CORPORATION discussion Rel-17 NR\_redcap-Core

R2-2201493 On RRM relaxations for REDCAP Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_redcap-Core

R2-2201494 On RRM relaxations in CONNECTED Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_redcap-Core

R2-2201558 Details on RRM relaxation Ericsson other Rel-17 NR\_redcap-Core

## 8.13 SON/MDT

(NR\_ENDC\_SON\_MDT\_enh-Core; leading WG: RAN3; REL-17; WID: RP-201281)

Time budget: 1 TU

Tdoc Limitation: 6 tdocs

Email max expectation: 6 threads

### 8.13.1 Organizational

Including outcome of [Post116-e][887][SON/MDT] Running 38.331 for introducing R17 SON (Ericsson)

Including outcome of [Post116-e][889][SON/MDT] Running 38.331 for introducing R17 MDT (Huawei)

Including outcome of [Post116-e][879][SON/MDT] Running R17 38.314 (CMCC)

Including outcome of [Post116-e][897][SON/MDT] Running R17 37.320 (CMCC, Nokia)

R2-2200010 Running 38.331 for introducing R17 MDT Huawei, HiSilicon draftCR Rel-17 38.331 16.7.0 B NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200053 Running CR for TS 38.314 CMCC draftCR Rel-17 38.314 16.4.0 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200054 Report of [Post116-e][879][SON/MDT] Running R17 38.314 CMCC discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200056 37.320 Running CR for R17 MDT in NR and E-UTRAN CMCC draftCR Rel-17 37.320 16.7.0 B NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200097 LS on UP measurements for Successful Handover Report (R3-212935; contact: Ericsson) RAN3 LS in Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core To:RAN2

R2-2200098 Reply LS on UE context keeping in the source cell (R3-212944; contact: Ericsson) RAN3 LS in Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core To:RAN2

R2-2200099 LS Reply on the details of logging forms reported by the gNB-CU-CP, gNB-CU-UP and gNB-DU under measurement pollution conditions (R3-214429; contact: Ericsson) RAN3 LS in Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core To:SA5, RAN2

R2-2200103 LS on NR-U channel information and procedures (R3-216042; contact: Samsung) RAN3 LS in Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core To:RAN1, RAN2

R2-2200105 Reply LS on scenarios need to be supported for MRO in SCG Failure Report (R3-216159; contact: Samsung) RAN3 LS in Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core To:RAN2

R2-2200156 Reply LS on the details of logging forms reported by the gNB-CU-CP, gNB-CU-UP and gNB-DU under measurement pollution conditions (S5-213499; contact: Ericsson) SA5 LS in Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core To:RAN3 Cc:RAN2

R2-2200157 Reply LS on Report Amount for M4, M5, M6, M7 measurements (S5-214523; contact: Nokia) SA5 LS in Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core To:RAN3 Cc:RAN2

R2-2200158 Reply LS on the details of logging forms reported by the gNB-CU-CP, gNB-CU-UP and gNB-DU under measurement pollution conditions (S5-215493; contact: Ericsson) SA5 LS in Rel-17 e\_5GMDT To:RAN3 Cc:RAN2

R2-2200163 Reply LS on the Beam measurement reports for the MDT measurements (S5-216628; contact: Ericsson) SA5 LS in Rel-17 e\_5GMDT To:RAN3 Cc:RAN2

R2-2200664 [Draft] Reply LS on NR-U channel information and procedures Samsung LS out Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core To:RAN3 Cc:RAN1

R2-2201611 LS Reply on user plane masurements for successful handover report Ericsson discussion NR\_ENDC\_SON\_MDT\_enh-Core

### 8.13.2 SON

#### 8.13.2.1 Handover related SON aspects

R2-2200005 Report of [Post116-e][887.5][SONMDT] Leftover issues on SON (Ericsson) Ericsson discussion

R2-2200392 Further Discussion on Handover Related SON Aspects CATT discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200560 Further consideration of SON of HO related aspects OPPO discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200561 Further consideration on successful handover report OPPO discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200575 Remaining issues on SHR NEC discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200668 SON Enhancements for CHO Optimization Samsung discussion NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200669 SON Enhancements for Successful HO Report Samsung discussion NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200752 SON Enhancements for CHO Lenovo, Motorola Mobility discussion Rel-17

R2-2200753 SON Enhancements for SHR Lenovo, Motorola Mobility discussion Rel-17

R2-2200901 On measurements of CHO candidate cells CMCC, Ericsson, Huawei, Nokia, ZTE discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200902 Remaining issues on SON Enhancement for CHO CMCC discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200903 Further Discussion on Successful Handover Report CMCC discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200966 Discussion on handover related SON aspects Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2201035 HO related SON changes Qualcomm Incorporated discussion Rel-17

R2-2201036 Open Issues in Successful Handover Report Qualcomm Incorporated discussion Rel-17

R2-2201211 Remaining CHO related issues on SON LG Electronics discussion NR\_ENDC\_SON\_MDT\_enh-Core

R2-2201212 Remaining SHR related issues on SON LG Electronics discussion NR\_ENDC\_SON\_MDT\_enh-Core

R2-2201229 Successful HO report in CHO recovery case SHARP Corporation discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2201230 Discussion on successful HO report in DC case SHARP Corporation discussion NR\_ENDC\_SON\_MDT\_enh-Core

R2-2201326 Further consideration on SHR enhancements ZTE Corporation, Sanechips discussion Rel-17

R2-2201423 Discussion on SHR enhancements vivo discussion Rel-17

R2-2201612 Handover-related SON aspects Ericsson discussion NR\_ENDC\_SON\_MDT\_enh-Core

#### 8.13.2.2 2-step RA related SON aspects

Including outcome of [Post116-e][887.5][SON/MDT] Leftover issues on SON (Ericsson )

R2-2200393 The left issues on 2-step RA Report CATT discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200670 2-step Random Access Optimization Samsung discussion NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200900 Remaining issues for 2-step RA CMCC,ZTE discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200967 Discussion on 2 step RA related SON aspects Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2201327 Remaining issues on RA-report enhancements ZTE Corporation, Sanechips discussion Rel-17

R2-2201604 2-Step RA information for SON purposes Ericsson discussion NR\_ENDC\_SON\_MDT\_enh-Core

#### 8.13.2.3 Other WID related SON features

R2-2200394 Specification Impact of SgNB RACH Report on TS38.331 and TS36.331 CATT discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200395 Open Issues of PSCell MHI Enhancement CATT discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200679 SON Enhancements: Others Samsung discussion NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200968 Discussion on UE capabilities for R17 SON and MDT Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2201037 Open Issues in Other SON Topics Qualcomm Incorporated discussion Rel-17

R2-2201043 Mobility History Information storing Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2201044 Discussion on other SON features Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2201045 Reporting Enhancements for SON in unlicensed Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2201213 Remaining issues on SCG related MRO LG Electronics discussion NR\_ENDC\_SON\_MDT\_enh-Core

R2-2201328 Consideration on SN MHI enhancements ZTE Corporation, Sanechips discussion Rel-17

R2-2201329 Clarification on failureType of SCG failure information ZTE Corporation, Sanechips, CMCC discussion Rel-17

R2-2201605 On Other WID related SON features Ericsson discussion NR\_ENDC\_SON\_MDT\_enh-Core

### 8.13.3 MDT

#### 8.13.3.1 Immediate MDT enhancements

R2-2200396 The Corrections on Immediate MDT Enhancements CATT discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200890 On Immediate MDT Enhancements Ericsson discussion NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200969 Discussion on immediate MDT enhancements Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2201330 Consideration on miscellaneous on IMM MDT ZTE Corporation, Sanechips discussion Rel-17

#### 8.13.3.2 Logged MDT enhancements

R2-2200397 Discussion on Logged MDT Enhancement CATT discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200648 Discussion on multiple CEF reports Samsung Electronics Co., Ltd discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200680 SI Request Optimization Samsung discussion NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200889 On logged MDT related enhancements Ericsson discussion NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200970 Discussion on logged MDT enhancements Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2201038 Logged measurement Enhancements Qualcomm Incorporated discussion Rel-17

R2-2201042 Remaining Stage 2 open issues Nokia, Nokia Shanghai Bell, CMCC discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

R2-2201331 Remaining issues on logged MDT enhancements ZTE Corporation, Sanechips discussion Rel-17

### 8.13.4 L2 Measurements

R2-2200004 Running 38.331 for introducing R17 SON Ericsson CR Rel-17 38.331 16.7.0 2865 - B NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200888 On layer-2 measurements Ericsson discussion NR\_ENDC\_SON\_MDT\_enh-Core

R2-2200971 Discussion on L2M Huawei, HiSilicon discussion Rel-17 NR\_ENDC\_SON\_MDT\_enh-Core

## 8.14 NR QoE

(NR\_QoE-Core; leading WG: RAN3; REL-17; WID: RP-211406)

Time budget: 0.5 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 3-4 threads

Focus on adressing open issues

### 8.14.1 Organizational

LS in. Rapporteur input. Running CRs.

LS in

R2-2200152 Reply LS on QoE report handling at QoE pause (S3-214458; contact: Lenovo) SA3 LS in Rel-17 NR\_QoE-Core To:RAN2 Cc:SA4, SA5

R2-2200162 LS Reply on QoE report handling at QoE pause (S5-216417; contact: Ericsson) SA5 LS in Rel-17 eQoE To:SA4 Cc:RAN2, SA3

R2-2200109 LS on the support of including slice ID in the QoE reporting container (R3-216225; contact: Huawei) RAN3 LS in Rel-17 NR\_QoE-Core To:SA4 Cc:RAN2

R2-2200160 LS on the mapping between service types and slice at application (S5-216414; contact: Ericsson) SA5 LS in Rel-17 eQoE To:RAN3 Cc:SA4, RAN2, SA2, CT1

R2-2200161 LS on QoE configuration and reporting related issues (S5-216415; contact: Ericsson) SA5 LS in Rel-17 eQoE To:RAN3 Cc:SA4, RAN2

CRs

R2-2200996 Running RRC CR for QoE measurements Ericsson draftCR Rel-17 38.331 16.7.0 B NR\_QoE-Core

### 8.14.2 RAN Visible QoE

Offline Only

* [AT116bis-e][029][QoE] RAN Visible QoE (Qualcomm)

 Scope: Determine what RAN2 need to do to support RAN3 decisions in LS in R2-2200110, Take into account documents in subclause 8.14.2. and make the corresponding decisions to such level that it is possible to make corresponding Stage-3 updates.

 Intended outcome: Report, with discussion and agreements

 Deadline: Friday W1

R2-2200110 RAN3 agreements on RAN visible QoE (R3-216227; contact: Qualcomm) RAN3 LS in Rel-17 NR\_QoE-Core To:RAN2

R2-2200268 Discussion on RAN Visible QoE ZTE Corporation, Sanechips discussion Rel-17

R2-2200546 RAN visible QoE configuration and report Samsung discussion Rel-17

R2-2200558 Discussion on RAN visible QoE configuration OPPO discussion Rel-17 NR\_QoE-Core

R2-2200705 Support of RAN visible QoE and per-slice QoE Qualcomm Incorporated discussion

R2-2200822 RAN visible QoE Huawei, HiSilicon discussion Rel-17 NR\_QoE-Core

R2-2200854 Discussion on Ran visiable QoE CMCC discussion Rel-17 NR\_QoE

R2-2200998 RAN Visible QoE measurements Ericsson discussion Rel-17 NR\_QoE-Core

R2-2201047 RAN visible QoE Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_QoE-Core

R2-2201419 Discussion on NR RAN-visible QoE CATT discussion NR\_QoE-Core

R2-2201594 Discussion on RAN visible QoE measurement in Rel-17 China Unicom discussion NR\_QoE-Core

R2-2201596 Discussion on RAN Visible QoE vivo discussion Rel-17 NR\_QoE-Core

R2-2201626 Discussion on RV QoE LG Electronics discussion Rel-17 NR\_QoE-Core

### 8.14.3 Open Issues

Open issues on QoE configuration, reporting, start stopincluding Pause Resume, mobility etc.

Including outcome of [Post116-e][080][eQoE] Mobility (Ericsson)

Mobility

Online

R2-2200011 Summary of e-mail discussion [080] Mobility Ericsson discussion Revised

R2-2200059 Summary of e-mail discussion [080] Mobility Ericsson discussion R2-2200011 Late

R2-2200851 Remaining open issues on QoE measurement and mobility CMCC discussion Rel-17 NR\_QoE

R2-2201183 Supporting session continuity for NR QoE Apple discussion Rel-17 NR\_QoE-Core R2-2110073

Pause Resume

Online first

R2-2201593 Discussion on pause and resume in NR QoE in Rel-17 China Unicom, CMCC, ZTE, CATT, Nokia, Nokia Shanghai Bell discussion NR\_QoE-Core

R2-2200823 [DRAFT] Further reply on QoE report handling at QoE pause Huawei, HiSilicon LS out Rel-17 NR\_QoE-Core To:SA4 Cc:SA3, SA5

R2-2200266 Discussion on NR QoE Pause Resume Reporting ZTE Corporation, Sanechips discussion Rel-17 Withdrawn

R2-2200999 Pause and resume of QoE measurement reporting Ericsson discussion Rel-17 NR\_QoE-Core

R2-2201293 QoE pause and resume LG Electronics discussion

R2-2201595 Discussion on Pause and Resume vivo discussion Rel-17 NR\_QoE-Core

R2-2200548 Remaining QoE issues Samsung discussion Rel-17

Other Open Issues

Offline first

* [AT116bis-e][030][QoE] Other open issues (Ericsson)

 Scope: List the remaining other open issues not related to Mobility, Pause Resume, RV QoE or UE cap. Determine agreements (agreed offline), and points for online CB, if any.

 Intended outcome: Report

 Deadline: Friday W1 (can CB Mon W2 if needed).

R2-2200997 Configuration and reporting of QoE measurements Ericsson discussion Rel-17 NR\_QoE-Core

R2-2200267 Discussion on QoE configuration ZTE Corporation, Sanechips discussion Rel-17

R2-2200340 Discussion on the partial QoE reporting at RAN overload ITRI discussion NR\_QoE-Core R2-2110281

R2-2200557 Discussion on QoE measurement collection configuration in NR OPPO discussion Rel-17 NR\_QoE-Core

R2-2200684 Leftover issues of QoE configuration, reporting, pause, resume and mobility Qualcomm Incorporated discussion

R2-2200820 Discussion on QoE open issues Huawei, HiSilicon discussion Rel-17 NR\_QoE-Core

R2-2200824 Draft reply LS on QoE configuration and reporting related issues Huawei, HiSilicon LS out Rel-17 NR\_QoE-Core To:SA4, SA5, CT1 Cc:RAN3

R2-2201046 Discussion on open issues for QoE Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_QoE-Core

R2-2201421 Discussion on the remaining open issues CATT discussion NR\_QoE-Core

### 8.14.4 UE capabilities

Initial discussion on UE caps.

* [AT116bis-e][031][QoE] UE capabilities (CMCC)

 Scope: Initial discussion on proposals from documents under 8.14.4. Identify agreeable points, points for discussion, if any. Points postponed, if any. Attempt endorsement of Running CR.

 Intended outcome: 1 Report 2 Endorsed running CR.

 Deadline: 1 Friday W1, 2 EOM

R2-2200853 Running CR of UE capability for NR QoE CMCC, China Unicom draftCR Rel-17 38.306 16.7.0 B NR\_QoE

R2-2200547 RRC segmentation for QoE reports Samsung discussion Rel-17

R2-2200707 UE capability for QoE Qualcomm Incorporated discussion

R2-2200821 Discussion on UE capabilities for NR QoE Huawei, HiSilicon discussion Rel-17 NR\_QoE-Core

R2-2200852 Discussion on UE capability for NR QoE CMCC, China Unicom discussion Rel-17 NR\_QoE

R2-2201048 UE capabilities for QoE Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_QoE-Core

R2-2201420 Discussion on UE capabilities for NR QoE CATT discussion NR\_QoE-Core

## 8.15 NR Sidelink enhancements

(NR\_SL\_enh-Core; leading WG: RAN1; REL-17; WID: RP-202846)

Time budget: 1.5 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 6 threads

### 8.15.1 Organizational

Including incoming LSs, rapporteur inputs, etc.

R2-2200265 Running CR of TS 38.304 for eSL ZTE Corporation, Sanechips draftCR Rel-17 38.304 16.7.0 NR\_SL\_enh-Core

R2-2200482 RRC running CR for NR Sidelink enhancements Huawei, HiSilicon draftCR Rel-17 38.331 16.7.0 F NR\_SL\_enh-Core

R2-2200550 Running CR of TS 38.321 for Sidelink enhancement LG Electronics France draftCR Rel-17 38.321 16.7.0 NR\_SL\_enh-Core

### 8.15.2 SL DRX

Including [Post116-e][715], [Post116-e][716], [Post116-e][718], etc.

R2-2200007 Summary of [POST116-e][718][V2X SL] SL DRX configuration (Ericsson) Ericsson discussion

R2-2200045 Summary of [POST116-e][715][V2X/SL] RRC open issues Huawei, HiSilicon (Rapporteur) discussion

R2-2200051 Summary of [POST116-e][716][SL] MAC open issues LG Electronics Inc. (Rapporteur) discussion

R2-2200264 Discussion on remaining issues of SL DRX ZTE Corporation, Sanechips discussion Rel-17 NR\_SL\_enh-Core

R2-2200318 Leftover Issues for Sidelink Unicast DRX CATT discussion Rel-17 NR\_SL\_enh-Core

R2-2200319 Leftover issues for Sidelink GCBC DRX CATT discussion Rel-17 NR\_SL\_enh-Core

R2-2200344 Further discussions on leftover issues of sidelink DRX configuration NEC Corporation discussion

R2-2200345 Further discussions on sidelink MAC open issues NEC Corporation discussion

R2-2200373 Discussion on DRX left issues OPPO discussion Rel-17 NR\_SL\_enh-Core

R2-2200374 Discussion on DRX left issues from [716] [718] OPPO discussion Rel-17 NR\_SL\_enh-Core

R2-2200415 SL DRX CP aspects Lenovo, Motorola Mobility discussion NR\_SL\_enh-Core Revised

R2-2200483 Remaining issues for sidelink DRX Huawei, HiSilicon discussion Rel-17 NR\_SL\_enh-Core

R2-2200484 Remaining issues of SL communication impact on Uu DRX Huawei, HiSilicon discussion Rel-17 NR\_SL\_enh-Core

R2-2200528 Leftover aspects on SL DRX Intel Corporation discussion Rel-17 NR\_SL\_enh-Core

R2-2200530 On SL DRX and candidate resource selection Intel Corporation discussion Rel-17 NR\_SL\_enh-Core

R2-2200535 Discussion on remaining issues for SL DRX LG Electronics France discussion Rel-17 NR\_SL\_enh-Core

R2-2200536 Consideration on sidelink DRX for unicast LG Electronics France discussion Rel-17 NR\_SL\_enh-Core Withdrawn

R2-2200544 Consideration on sidelink DRX for unicast LG Electronics France discussion Rel-17

R2-2200545 Discussion on resource (re-)selection in SL DRX SHARP Corporation discussion NR\_SL\_enh-Core

R2-2200749 Discussion on remaining issues regarding Sidelink DRX ASUSTeK discussion Rel-17 NR\_SL\_enh-Core

R2-2200762 Remaining MAC issues for SL DRX Lenovo, Motorola Mobility discussion Rel-17

R2-2200786 NR Sidelink Synchronization Reference Search Optimization at UE for Power Saving Nokia, Nokia Shanghai Bell discussion NR\_SL\_enh-Core

R2-2200790 Discussion on Uu impact Xiaomi discussion

R2-2200791 Discussion on Sidelink DRX open issues Xiaomi discussion

R2-2200893 RRC remaining issues on SL DRX vivo discussion Rel-17

R2-2200894 MAC remaining issues on SL DRX vivo discussion Rel-17

R2-2200938 Remaining aspects of SL DRX Ericsson discussion Rel-17 NR\_SL\_enh-Core

R2-2201061 Discussion on remaining issues of SL DRX timers ZTE Corporation, Sanechips discussion Rel-17 NR\_SL\_enh-Core

R2-2201135 Discussion on remaining issues on SL-DRX Apple discussion Rel-17 NR\_SL\_enh-Core

R2-2201150 Resource Selection Considering DRX InterDigital discussion Rel-17 NR\_SL\_enh-Core

R2-2201151 Consideration of the Active Time for Periodic Transmissions InterDigital, Ericsson, ZTE, AsusTek, Huawei, HiSilicon, Lenovo, Motorola Mobility, Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SL\_enh-Core

R2-2201152 Remaining Aspects on SL DRX InterDigital discussion Rel-17 NR\_SL\_enh-Core

R2-2201458 SL data transmission considering SL DRX active time Nokia, Nokia Shanghai Bell discussion NR\_SL\_enh-Core R2-2110747

R2-2201478 Resource selection considering SL DRX ITL discussion

R2-2201523 SL DRX CP aspects Lenovo, Motorola Mobility discussion NR\_SL\_enh-Core R2-2200415

R2-2201582 UE report on SL DRX for Uu DRX alignment Samsung Research America discussion

R2-2201585 Remaining details for GC/BC Samsung Research America discussion

R2-2201624 Discussion on Remaining Design Aspects for SL DRX Qualcomm Finland RFFE Oy discussion

### 8.15.3 Resource allocation enhancements RAN2 scope

Including RAN2 discussion scope on random selection, partial sensing and inter-UE coordination. This agenda item may utilize a summary document (TBD).

R2-2200263 Discussion on inter-UE coordination ZTE Corporation, Sanechips discussion Rel-17 NR\_SL\_enh-Core

R2-2200317 Consideration on Resource Allocation Enhancements CATT discussion Rel-17 NR\_SL\_enh-Core

R2-2200349 Discussion on candidate resource selection with DRX and inter-UE coordination NEC Corporation discussion

R2-2200375 Discussion on resource allocation enhancement OPPO discussion Rel-17 NR\_SL\_enh-Core

R2-2200379 RAN2 aspects on resource allocation enhancements for Rel-17 eSL vivo discussion

R2-2200485 Consideration on resource allocation enhancement Huawei, HiSilicon discussion Rel-17 NR\_SL\_enh-Core

R2-2200529 On resource allocation and inter-UE coordination Intel Corporation discussion Rel-17 NR\_SL\_enh-Core

R2-2200537 Discussion on Inter-UE Coondination MAC CE LG Electronics France discussion Rel-17 NR\_SL\_enh-Core

R2-2200642 Discussion on resource allocation enhancement for NR sidelink Spreadtrum Communications discussion Rel-17

R2-2200750 Discussion on inter-UE coordination ASUSTeK discussion Rel-17 NR\_SL\_enh-Core

R2-2200763 RAN2 impacts on SL Resource allocation enhancements Lenovo, Motorola Mobility discussion Rel-17

R2-2200792 Discussion on inter-UE coordination impact in RAN2 Xiaomi discussion

R2-2200799 On Signalling for Inter UE Coordination Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SL\_enh-Core

R2-2200939 MAC CE design of inter-UE coordination Ericsson discussion Rel-17 NR\_SL\_enh-Core

R2-2201134 Discussion on Inter-UE Coordination Apple discussion Rel-17 NR\_SL\_enh-Core

R2-2201457 Power Reduction for Sidelink Mode 2 Resource Allocation Fraunhofer IIS, Fraunhofer HHI discussion Rel-17

R2-2201459 Inter-UE Coordination for Sidelink Mode 2 Resource Allocation Fraunhofer IIS, Fraunhofer HHI discussion Rel-17

R2-2201479 Interaction between partial sensing and DRX Ericsson discussion Rel-17 NR\_SL\_enh-Core

R2-2201591 Resource allocation enhancements Samsung Research America discussion

R2-2201625 Discussion on Inter-UE Coordination Qualcomm Finland RFFE Oy discussion

## 8.16 NR Non-Public Network enhancements

(WI NG\_RAN\_PRN\_enh-Core; leading WG: RAN3; REL-17; WID: RP-202363)

Time budget: 0.5 TU

Tdoc Limitation: 1 tdocs

Email max expectation: 1 threads

NOTE at current meeting, only UE capabilites are expected to be treated. Remaining issue(s) wil be treated at R2 117 (this WI will have an AI at next meeting regardless current TU allocation).

### 8.16.1 Organizational

Rapporteur input, incoming LS etc. Running CRs.

R2-2200138 Reply to LS on support of PWS over SNPN (S1-214049; contact: Nokia) SA1 LS in Rel-17 FS\_eNPN To:SA3 Cc:SA2, CT1, RAN2, RAN3, SA, CT, RAN

R2-2200143 Reply LS on limited service availability of an SNPN (S2-2109254; contact: Qualcomm) SA2 LS in Rel-17 eNPN To:CT1, RAN2 Cc:SA1

R2-2200491 Draft CR for Enhancements for Private Networks Qualcomm Incorporated draftCR Rel-16 38.304 16.7.0 NG\_RAN\_PRN\_enh-Core

### 8.16.2 Issues and Corrections

Including Issues and Corrections if any to support SNPN with subscription or credentials by a separate entity, support UE onboarding and provisioning for NPN and support of IMS voice and emergency services for SNPN.

Not to be treated. No input is expected.

R2-2201470 Details of SIBxy LG Electronics discussion Rel-17

### 8.16.3 UE capabilities

This topic is expected to be treated offline only.

* [AT116bis-e][032][eNPN] UE capabilities (Intel)

 Scope: Initial discussion on UE caps. Identify agreements (for offline agreement), and Open issues, to be addressed at next meeting. If need is high, e.g. if LS out is needed, can also identify some point for online CB W2.

 Intended outcome: Report

 Deadline: EOM (or earlier for CB point if needed).

R2-2200233 UE Capabilities for eNPN OPPO discussion Rel-17 NG\_RAN\_PRN\_enh-Core

R2-2200293 Discussion on UE capability for eNPN Huawei, HiSilicon discussion Rel-17 NG\_RAN\_PRN\_enh-Core

R2-2200508 UE capability for Rel-17 NPN Intel Corporation, Nokia, Nokia Shanghai Bell discussion Rel-17 NG\_RAN\_PRN\_enh-Core

R2-2200509 UE capability for Rel-17 NPN Intel Corporation, Nokia, Nokia Shanghai Bell draftCR Rel-17 38.306 16.7.0 NG\_RAN\_PRN\_enh-Core

R2-2200521 Discussion of UE capability of eNPN China Telecom discussion Rel-17 NG\_RAN\_PRN\_enh-Core

R2-2200849 Discussion on UE capability for NPN CMCC discussion Rel-17 NG\_RAN\_PRN\_enh

R2-2201236 Consideration on the eNPN UE Capability ZTE Corporation, Sanechips discussion Rel-17 NG\_RAN\_PRN\_enh-Core

R2-2201266 Discussion on UE capabilities for R17 NPN vivo discussion Rel-17 NG\_RAN\_PRN\_enh-Core

R2-2201469 UE capabilities LG Electronics discussion Rel-17

R2-2201524 Discussion on UE capabilities relating to Rel17 eNPN features Samsung R&D Institute India discussion Rel-17 NG\_RAN\_PRN\_enh-Core

R2-2201566 UE capabilities for eNPN Ericsson discussion Rel-17 NG\_RAN\_PRN\_enh-Core

## 8.17 NR feMIMO

(NR\_feMIMO-Core; leading WG: RAN1; REL-17; WID: RP-212535)

Time budget: 0.5 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 3 threads

### 8.17.1 Organizational

Rapporteur input, incoming LS etc.

LS in

R2-2200067 Follow-up reply LS on inter-cell beam management and multi-TRP in Rel-17 (R1-2112707; contact: Huawei) RAN1 LS in Rel-17 NR\_feMIMO-Core To:RAN2 Cc:RAN4

R2-2200069 LS on L1-RSRP measurement behaviour when SSBs associated with different PCIs overlap (R1-2112762; contact: vivo) RAN1 LS in Rel-17 NR\_feMIMO-Core To:RAN4 Cc:RAN2

R2-2200077 LS on BFR for CORESET with two activated TCI states (R1-2112829; ZTE) RAN1 LS in Rel-17 NR\_feMIMO-Core To:RAN4 Cc:RAN2

R2-2200112 Reply LS on TCI State Update for L1/L2-Centric Inter-Cell Mobility to RAN3 (R3-216234; contact: ZTE) RAN3 LS in Rel-17 NR\_feMIMO-Core To:RAN1, RAN2, RAN Cc:RAN4

CRs

R2-2200660 MAC Running CR for Rel-17 feMIMO Samsung draftCR Rel-16 38.321 16.7.0 NR\_feMIMO-Core

R2-2201560 Running RRC CR for FeMIMO Rel-17 Ericsson draftCR Rel-17 38.331 16.7.0 NR\_feMIMO-Core Late

### 8.17.2 General and RRC

High level impacts and high level design for inter-cell beam mgmt. Impacts of mTRP. RRC impacts of feMIMO.

Including [Post116-e][086][feMIMO] RRC (Ericsson) which includes e.g. the related modelling for ICBM TCI state handling and UL power control, and includes parameter designs where RAN1 has indicated upto RAN2, which all have high priority.

Including RRC impacts of all L1 parameters.

R2-2200015 Report of [Post116-e][086][feMIMO] RRC (Ericsson) Ericsson report

R2-2200016 Running RRC CR for FeMIMO Rel-17 Ericsson draftCR Rel-17 38.331 16.7.0 B NR\_feMIMO-Core

R2-2200316 Unified TCI Framework Operation from RAN2 Perspectives MediaTek Inc. discussion

R2-2200224 RRC parameters for feMIMO Intel Corporation discussion Rel-17 NR\_feMIMO-Core

R2-2200260 Implementation of MIMO RRC parameters OPPO discussion Rel-17

R2-2200569 Systerm Information provisioning for inter-cell beam management Fujitsu discussion Rel-17 NR\_feMIMO-Core

R2-2200599 Discussion on RRC aspects for feMIMO vivo discussion Rel-17 NR\_feMIMO-Core

R2-2200635 Discussion on inter-cell beam management Spreadtrum Communications discussion Rel-17

R2-2200661 RRC impacts for feMIMO Samsung discussion NR\_feMIMO-Core

R2-2200700 Configuration and procedures for ICBM and mTRP Qualcomm Incorporated discussion

R2-2201058 Discussion on MPE and mTRP Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_feMIMO-Core

R2-2201098 Inter-cell BM and inter-cell mTRP Huawei, HiSilicon discussion Rel-17 NR\_feMIMO-Core

R2-2201099 FeMIMO RRC Discussion Huawei, HiSilicon discussion Rel-17 NR\_feMIMO-Core

R2-2201122 RRC impact of FeMIMO Apple discussion Rel-17 NR\_feMIMO-Core

R2-2201223 Considerations on Implementation Of Unified TCI Framework in RRC ZTE Corporation,Sanechips discussion Rel-17 NR\_feMIMO-Core

R2-2201253 Discussion on the unified TCI framework CATT discussion Rel-17 NR\_feMIMO-Core

R2-2201254 Considerations on Inter-cell Beam Management CATT discussion Rel-17 NR\_feMIMO-Core

R2-2201275 Considerations on SI aspects of inter-cell beam management NTT DOCOMO, INC. discussion Rel-17

R2-2201386 Clarification on the serving cell measurement for mTRP Xiaomi Communications discussion Rel-17 NR\_feMIMO-Core

R2-2201466 TCI state configuration for inter-cell BM LG Electronics discussion Rel-17

R2-2201467 Power control and miscellaneous parameters for inter-cell BM LG Electronics discussion Rel-17

R2-2201581 FeMIMO General and RRC impact Ericsson discussion NR\_feMIMO-Core

### 8.17.3 Other

Other RAN2 impacts, BFD/BFR. MAC.

R2-220xxxx Summary of 8.17.3 Other Samsung

R2-2200205 Multi TRP Beam Failure Detection and Recovery Samsung Electronics Co., Ltd discussion Rel-17 NR\_feMIMO-Core

R2-2200403 Further discussions on BFD and BFR of mTRP NEC Corporation discussion Rel-17

R2-2200404 Further discussions on BFD and BFR of Unified TCI state and CA NEC Corporation discussion Rel-17

R2-2200570 RAN2 impacts of beam failure detection and recovery Fujitsu discussion Rel-17 NR\_feMIMO-Core

R2-2200600 Discussion on BFD/BFR for mTRP vivo discussion Rel-17 NR\_feMIMO-Core Late

R2-2200755 BFR for both SpCell and SCell in mTRP Lenovo, Motorola Mobility discussion Rel-17

R2-2200719 Remaining issues on multi-TRP BFR Qualcomm Incorporated discussion Rel-17 NR\_feMIMO-Core

R2-2200783 open issues on TRP-specific BFR OPPO discussion Rel-17 NR\_feMIMO-Core

R2-2201224 Consideration on Implementation of BFR For mTRP ZTE Corporation,Sanechips discussion Rel-17 NR\_feMIMO-Core

R2-2201359 Remaining issues on BFD/BFR for mTRP LG Electronics Inc. discussion NR\_feMIMO-Core

R2-2201387 Remaining issues of mTRP BFR Xiaomi Communications discussion Rel-17 NR\_feMIMO-Core

R2-2201464 RAN2 aspects for BFR, BFD and RLM for mTRP operation Ericsson discussion NR\_feMIMO-Core

R2-2201588 Beam failure with mTRP Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_feMIMO-Core

R2-2200225 Remaining issues on HST-SFN PDCCH Intel Corporation discussion Rel-17 NR\_feMIMO-Core

R2-2200721 PDCCH repetition impact on MAC and MIMO MAC CEs Qualcomm Incorporated discussion Rel-17 NR\_feMIMO-Core

R2-2200751 Discussion on Power Headroom Reporting for mTRP PUSCH repetition ASUSTeK discussion Rel-17 NR\_feMIMO-Core

R2-2200662 MAC CE impacts for feMIMO Samsung discussion NR\_feMIMO-Core

R2-2200782 Discussion on MAC CEs for FeMIMO OPPO discussion Rel-17 NR\_feMIMO-Core

R2-2201100 FeMIMO MAC Discussion Huawei, HiSilicon discussion Rel-17 NR\_feMIMO-Core

R2-2201123 MAC impact of FeMIMO Apple discussion Rel-17 NR\_feMIMO-Core

R2-2201168 Discussion on Multi-TRP PHR enhancements InterDigital discussion Rel-17 NR\_feMIMO-Core

R2-2201225 Initial Discussion on new PHR and new PHR MAC CE ZTE Corporation,Sanechips discussion Rel-17 NR\_feMIMO-Core

R2-2201255 Remaining MAC Aspects for M-TRP CATT discussion Rel-17 NR\_feMIMO-Core

R2-2201529 MAC CE impacts Ericsson discussion NR\_feMIMO-Core

## 8.18 RACH indication and partitioning

Time budget: Equivalent to 0.5-1 TU

Tdoc Limitation: 2 tdocs

Expected to cover WIs SDT, CovEnh, RedCap, RAN slicing. RA specific aspects from the different WI should be covered in this AI given the RA experts are all there.

### 8.18.1 Common signalling framework

Including output of [Post116-e][514][RACH partitioning] Signaling design (Ericsson) and any other input for RRC signalling (focus company tdocs on issues that are not addressed in [514] email)

R2-2200019 Running CR to 38.331 on RA Partitioning Ericsson draftCR Rel-17 38.331 16.7.0 B NR\_redcap-Core, NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_slice-Core

R2-2200020 [Post116-e][514][RACH partitioning] Signaling design (Ericsson) Email discussion Rapporteur (Ericsson) discussion Rel-17 NR\_redcap-Core, NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_slice-Core

R2-2200261 RRC aspects of RACH partition OPPO discussion Rel-17

R2-2200419 Discussion on signaling design for RACH partitioning CATT discussion Rel-17 NR\_cov\_enh-Core, NR\_slice-Core, NR\_SmallData\_INACTIVE-Core, NR\_redcap-Core

R2-2200456 Signalling design of RACH partitioning for multiple feature combinations Intel Corporation discussion Rel-17 NR\_cov\_enh-Core, NR\_redcap-Core, NR\_UE\_pow\_sav\_enh-Core, NR\_slice-Core

R2-2200701 Consideration on the common signalling framework for RACH partitioning Beijing Xiaomi Software Tech discussion

R2-2200812 Common signalling for RACH indication and partitioning Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core, NR\_slice-Core, NR\_redcap-Core, NR\_cov\_enh-Core

R2-2201049 Features Combination signalling Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_redcap-Core, NR\_slice-Core

R2-2201127 Signaling aspects of RACH partitioning Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_redcap-Core

R2-2201128 MAC aspects of RACH partitioning Apple discussion Rel-17 NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_redcap-Core

R2-2201473 Discussion on signalling aspects on common RACH framework LG Electronics Inc. discussion Rel-17 NR\_SmallData\_INACTIVE-Core, NR\_slice-Core, NR\_redcap-Core, NR\_cov\_enh-Core

R2-2201597 Discussion on RACH Partitioning in RA Configuration Aspect vivo discussion Rel-17 R2-2109442 Late

### 8.18.2 Common aspects of RACH procedure

Including output of [Post116-e][515][RACH partitioning] MAC Procedure aspects (ZTE) and any other inputs not treated in 515, including RACH procedure and input for handling of the common MAC aspects including handling of RACH initiation, retransmissions etc

R2-2200049 [Post116-e][515][RACH partitioning] MAC Procedure aspects (ZTE) email discussion Rapporteur (ZTE Corporation) discussion Revised

R2-2200193 Selection and fallback between RACH partitions Qualcomm Incorporated discussion Rel-17 NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_redcap-Core, NR\_slice-Core

R2-2200262 MAC aspects of RACH partition OPPO discussion Rel-17

R2-2200420 Discussion on MAC procedure for RACH partitioning CATT discussion Rel-17 NR\_cov\_enh-Core, NR\_slice-Core, NR\_SmallData\_INACTIVE-Core, NR\_redcap-Core

R2-2200457 RACH resource/configuration selection and fallback mechanism Intel Corporation discussion Rel-17 NR\_cov\_enh-Core, NR\_redcap-Core, NR\_UE\_pow\_sav\_enh-Core, NR\_slice-Core

R2-2200617 Remaining issues for MAC procedure in RACH partition NEC discussion Rel-17 NR\_redcap-Core, NR\_cov\_enh-Core, NR\_SmallData\_INACTIVE-Core, NR\_slice-Core

R2-2200703 Considerations on the common aspects of RACH procedure Beijing Xiaomi Software Tech discussion

R2-2200813 MAC aspects for RACH partitioning Huawei, HiSilicon discussion Rel-17 NR\_SmallData\_INACTIVE-Core, NR\_slice-Core, NR\_redcap-Core, NR\_cov\_enh-Core

R2-2200848 Discussion on RACH indication and partitioning CMCC discussion Rel-17

R2-2200917 RNTI collision issue for different features in NR Sony discussion Rel-17 NR\_redcap-Core, NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_slice-Core

R2-2201025 RACH indication and partitioning InterDigital discussion Rel-17 NR\_SmallData\_INACTIVE-Core, NR\_cov\_enh-Core, NR\_redcap-Core, NR\_slice-Core

R2-2201026 Updated - [Post116-e][515][RACH partitioning] MAC Procedure aspects (ZTE) email discussion Rapporteur (ZTE Corporation) discussion R2-2200049

R2-2201031 MAC procedure aspects of RACH partitioning ZTE corporation, Sanechips discussion

R2-2201474 Further discussion on common RA procedure LG Electronics Inc. discussion Rel-17 NR\_SmallData\_INACTIVE-Core, NR\_slice-Core, NR\_redcap-Core, NR\_cov\_enh-Core

R2-2201589 Selection of RACH partition Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_SmallData\_INACTIVE-Core

R2-2201628 Discussion on RACH Partitioning in RA Procedure Aspect vivo discussion Rel-17 R2-2110927 Late

## 8.19 Coverage Enhancements

(NR\_cov\_enh-Core; leading WG: RAN1; REL-17; WID: RP-211566)

Time budget: 0.5

Tdoc Limitation: 1 tdoc

Common aspects related to RACH indication (in MSG1) / RACH partitioning shall be submitted to 8.18

### 8.19.1 Organizational

Rapporteur input, incoming LS etc.

R2-2200206 Preamble and RACH resource configuration Samsung Electronics Co., Ltd discussion Rel-17 NR\_cov\_enh-Core, NR\_SmallData\_INACTIVE-Core, NR\_slice-Core

R2-2200515 Running 38300 CR for NR coverage enhancements China Telecom draftCR Rel-17 38.300 16.8.0 B NR\_cov\_enh-Core

R2-2200602 Running 38321 CR for NR coverage enhancements ZTE Corporation draftCR Rel-17 38.321 16.7.0 B NR\_cov\_enh-Core

R2-2201553 RACH partitioning for Rel-17 features Ericsson other Rel-17

R2-2201616 RRC running CR for CE Huawei, HiSilicon draftCR Rel-17 38.331 16.7.0 B NR\_cov\_enh-Core

### 8.19.2 General

RAN2 impact tech proposals.

R2-2200192 Issues on coverage enhancements Qualcomm Incorporated discussion Rel-17 NR\_cov\_enh-Core

R2-2200207 RA Procedure Aspects Samsung Electronics Co., Ltd discussion Rel-17 NR\_cov\_enh-Core, NR\_SmallData\_INACTIVE-Core, NR\_slice-Core

R2-2200251 Discussion on CE’s impact on UL carrier selection OPPO discussion Rel-17 NR\_cov\_enh-Core

R2-2200269 Considerations on requesting Msg3 repetition NEC Corporation discussion Rel-17 NR\_cov\_enh-Core

R2-2200272 Remaining issues related to coverage enhancement Xiaomi discussion Rel-17

R2-2200421 Consideration on RAN2 impacts of Msg3 repetition CATT discussion Rel-17 NR\_cov\_enh-Core

R2-2200603 Remaining issues on Msg3 repetition in CE ZTE Corporation, Sanechips discussion Rel-17 NR\_cov\_enh-Core

R2-2201177 Further Discussion on RAN2 Impacts of Msg3 Repetition vivo discussion Rel-17 NR\_cov\_enh

R2-2201426 Remaining issues for supporting Msg3 repetition LG Electronics Inc. discussion Rel-17 NR\_cov\_enh-Core

R2-2201554 RNTI collision problem for Rel-17 features Ericsson other Rel-17

R2-2201590 RAN2 aspects for Coverage Enhancement Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_cov\_enh-Core

R2-2201598 On Type A PUSCH repetitions for Msg3 Ericsson discussion Rel-17 NR\_cov\_enh

R2-2201617 Remaining issues on RAN2 support of Msg3 PUSCH repetition Huawei, HiSilicon discussion Rel-17 NR\_cov\_enh-Core

## 8.20 Extending NR operation to 71GHz

(NR\_ext\_to\_71GHz-Core; leading WG: RAN1; REL-17; WID: RP-212637)

Time budget: 0.5

Tdoc Limitation: 2 tdocs

Note: RAN2 is to prioritize protocol support of RAN1 design and not on optimizations on items not discussed in RAN1

R2-2201032 Consideration on LBT impact ZTE corporation, Sanechips discussion

R2-2201033 Consideration on RRC and MAC running CR ZTE corporation, Sanechips discussion

### 8.20.1 Organizational

Including LSs, any rapporteur inputs and results of running CR email discussions [217] and [218]

Including input running Stage-2 CR from the specification rapporteur (which does not count against the Tdoc limits)

Including rapporteur input on remaining open issues needed to close the WI.

R2-2200017 Running CR to 38306 for NR operation for up to 71G Intel Corporation draftCR Rel-17 38.306 16.7.0 B NR\_ext\_to\_71GHz-Core

R2-2200018 Running CR to 38331 on UE capability for 71G Intel Corporation draftCR Rel-17 38.331 16.7.0 B NR\_ext\_to\_71GHz-Core

R2-2200076 LS on initial access for 60 GHz (R1-2112805; contact: Intel) RAN1 LS in Rel-17 NR\_ext\_to\_71GHz To:RAN2

R2-2200078 LS on RA-RNTI and MSGB-RNTI for 480 and 960 kHz (R1-2112832; contact: Intel) RAN1 LS in Rel-17 NR\_ext\_to\_71GHz To:RAN2

R2-2200718 List of issues for completion of FR2-2 Work (Rapporteur Input) Qualcomm Incorporated discussion

R2-2200720 Running Stage-2 CR for Extending NR operation to 71GHz Qualcomm Incorporated draftCR Rel-17 38.300 16.8.0 B NR\_ext\_to\_71GHz-Core

R2-2200940 Open issue list of RRC CR for 71 GHz Ericsson (rapporteur) discussion Rel-17 NR\_ext\_to\_71GHz-Core

### 8.20.2 General

Including discussion on UP aspects based on RAN1 progress (e.g. RLC RTT, RACH, L2 buffer sizes)

Including discussion on latest L1 parameters from RAN1 that were not yet accounted for in the running CR discussions

Including discussion on RRC and MAC impacts not yet covered in the running CR discussions

Including further discussion on UE capability aspects based on latest information from RAN1/4 and previous RAN2 meeting (e.g. FR2-1/2 differentiation, whether to use per-band signalling for FR2-2-specific capabilities, whether L2 buffer requires additional capabilities etc.)

Including discussion on whether any existing features require modifications due to FR2-2 (e.g. IDC, LBT)

R2-2200006 Extending NR operation to 71 GHz Ericsson draftCR Rel-17 38.331 16.7.0 NR\_ext\_to\_71GHz

R2-2200274 Consideration on support of directional LBT Xiaomi discussion Rel-17

R2-2200460 Remaining UE capability issues on NR operation for upto 71GHz Intel Corporation discussion Rel-17 NR\_ext\_to\_71GHz-Core

R2-2200461 UP and CP impact on NR operation for upto 71GHz Intel Corporation discussion Rel-17 NR\_ext\_to\_71GHz-Core

R2-2200480 Discussion about RAN2 impacts of Ext 52-71GHz Huawei, HiSilicon discussion Rel-17 NR\_ext\_to\_71GHz-Core

R2-2200481 Discussion about UE capabilities of Ext 52-71GHz Huawei, HiSilicon discussion Rel-17 NR\_ext\_to\_71GHz-Core

R2-2200706 Discussion on potential LBT impacts Lenovo, Motorola Mobility discussion Rel-17 NR\_ext\_to\_71GHz-Core

R2-2200732 Discussion on L2 buffer size Samsung discussion Rel-17 NR\_ext\_to\_71GHz-Core

R2-2200733 Discussion on UAI enhancement for operation in FR2-2 Samsung discussion Rel-17 NR\_ext\_to\_71GHz-Core

R2-2200884 Initial access aspects Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_ext\_to\_71GHz-Core

R2-2200885 RA-RNTI Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_ext\_to\_71GHz-Core

R2-2200941 Remaining protocol aspects Ericsson discussion Rel-17 NR\_ext\_to\_71GHz-Core

R2-2200942 Remaining RRC aspects Ericsson discussion Rel-17 NR\_ext\_to\_71GHz-Core

R2-2201014 Impacts of directional LBT on MAC procedure OPPO discussion Rel-17

R2-2201015 On the issues of RA-RNTI and Initial Access OPPO discussion Rel-17

R2-2201284 Remaining issues for Ext 71GHz vivo Mobile Com. (Chongqing) discussion Rel-17 NR\_ext\_to\_71GHz-Core

R2-2201424 Discussion on RAN1 LS and L2 buffer size LG Electronics Inc. discussion Rel-17 NR\_ext\_to\_71GHz-Core

R2-2201425 Discussion on LBT impact based on RAN1 conclusions LG Electronics Inc. discussion Rel-17 NR\_ext\_to\_71GHz-Core

## 8.21 TEI17

Time budget: 1.5 TU

Note that TEI17 will have low priority in 2022 Q1. Normal treatment resumed in Q2.

### 8.21.1 TEI proposals initiated by other groups

Including incoming LSes. This AI may be deprioritized at current meeting.

R2-2200434 Introduction of RACH triggers for T\_ADV in NR E-CID [NRTADV] Huawei, HiSilicon, Ericsson, CATT, NTT DOCOMO, Deutsche Telecom, Polaris Wireless, ZTE Corporation CR Rel-17 38.300 16.8.0 0399 - B TEI17

[000] Proposed Postponed

### 8.21.2 TEI proposals initiated by RAN2

Tdoc Limitation: No input on new (= not agreed to be progressed) proposals is expected at current meeting, Exception: The long email discussion after last meeting will be treated. Including outcome of [Post116-e][087][TEI17] Explicit SI start position for SI Scheduling (Ericsson)

SI Scheduling

Treat Online W2

R2-2200046 Report on Explicit SI start position for SI Scheduling Ericsson discussion

R2-2201071 Explicit Indication of SI Scheduling start position Ericsson, Verizon, Softbank, Deutsche Telekom CR Rel-17 38.331 16.7.0 2869 - B TEI17

R2-2201085 System information scheduling enhancements for Rel-17 MediaTek Inc. discussion Rel-17 TEI17

R2-2201086 Updating 80ms hardcoded offset with shortest configured SI-Periodicity offset for positioning SI Scheduling MediaTek Inc., Ericsson, Verizon, Softbank, Apple, Deutsche Telekom CR Rel-17 38.331 16.7.0 2870 - B TEI17

R2-2201392 Discussion on SI Scheduling vivo discussion TEI17

**PO Alignment**

R2-2201140 Discussion on UE capability signaling of inactiveStatePO-Determination-r17 in LTE Lenovo, Motorola Mobility discussion Rel-17 TEI17

[000] proposed postponed

Not Treated

R2-2201498 EPS fallback enhancements in Rel-17 Huawei, HiSilicon, CMCC, China Telecom, China Unicom, LG Uplus discussion Rel-17 TEI17

R2-2200423 EPS Fallback Lenovo, Motorola Mobility discussion Rel-17 TEI17

R2-2201320 Discussion on EPS fallback enhancement Apple discussion Rel-17 TEI17

R2-2201401 Redirection enhancement on EPS Fallback vivo discussion Rel-17 TEI17

R2-2201402 38331 CR for Redirection enhancement on EPS Fallback vivo CR Rel-17 38.331 16.7.0 2873 - B TEI17

R2-2201403 38306 CR for Redirection enhancement on EPS Fallback vivo CR Rel-17 38.306 16.7.0 0671 - B TEI17

R2-2201398 Early measurement for EPS Fallback vivo,CMCC, softback, China Telecom,China Unicom, Vodafone, Ericsson discussion Rel-17 TEI17

R2-2201399 38331 CR for Early measurement for EPS Fallback vivo,CMCC, softback, China Telecom,China Unicom, Vodafone CR Rel-17 38.331 16.7.0 2872 - B TEI17

R2-2201400 38306 CR for Early measurement for EPS Fallback vivo,CMCC, softback, China Telecom,China Unicom, Vodafone CR Rel-17 38.306 16.7.0 0670 - B TEI17

R2-2201472 Configuration of chronological order for performing inter-frequency measurements BT Plc., Ericsson, Vodafone, T-Mobile USA, Qualcomm discussion Rel-17

R2-2201559 Secondary DRX enhancement Ericsson, Verizon, Qualcomm Inc, T-Mobile USA Inc., Deutsche Telekom other Rel-17 TEI17

R2-2200723 Discussion on Secondary DRX Enhancement LG Electronics Deutschland discussion Rel-17 TEI17

R2-2201130 SDAP end-marker in RLC UM Apple, Futurewei, Spreadtrum, FGI, Asia Pacific Telecom discussion Rel-17 TEI17

R2-2201518 DRX HARQ RTT timer for one-shot HARQ feedback LG Electronics discussion NR\_unlic-Core

R2-2201519 CR for DRX HARQ RTT Timer for one-shot HARQ-ACK LG Electronics CR Rel-17 38.321 16.7.0 1183 - F NR\_unlic-Core

## 8.22 NR and MR-DC measurement gap enhancements

(NR\_MG\_enh-Core; leading WG: RAN4; REL-17; WID: RP-211591)

Time budget: 0.5

Tdoc Limitation: 3 tdocs

Includes: Pre-configured MG pattern(s) (fast MG configuration) - protocol impacts of the mechanisms of activation/deactivation of MG following a DCI or timer based BWP switch, e.g., per BWP MG configuration based on RAN4 input,

Multiple concurrent and independent MG patterns [RAN4, RAN2]. Specification of protocol impacts for multiple concurrent and independent MG patterns based on RAN4 input

Network Controlled Small Gap (NCSG) specification - Procedures and signaling for NCSG patterns.

R2-2200496 Discussion on concurrent MG patterns Samsung discussion

R2-2200497 Preconfigured measurement gap patterns Samsung discussion

R2-2200498 On Network Controlled Small Gaps Samsung discussion

R2-2201310 Inter-node signalling design on multiple concurrent gaps for MR-DC DENSO CORPORATION discussion NR\_MG\_enh-Core

### 8.22.1 Organizational

Rapporteur Input

R2-2200125 LS on R17 NR MG enhancements – Pre-configured MG (R4-2120302; contact: CATT, Intel) RAN4 LS in Rel-17 NR\_MG\_enh-Core To:RAN2

R2-2200126 LS on multiple concurrent MGs (R4-2120304; contact: Huawei) RAN4 LS in Rel-17 NR\_MG\_enh-Core To:RAN2

R2-2200127 LS on NCSG (R4-2120306; contact: Apple) RAN4 LS in Rel-17 NR\_MG\_enh-Core To:RAN2 Cc:RAN1

R2-2200835 RRC signaling of measurement gap enhancements Huawei, HiSilicon draftCR Rel-17 38.331 16.7.0 NR\_MG\_enh-Core

R2-2201241 Progress on MG enhancement WI MediaTek Inc., Intel discussion

### 8.22.2 Pre-configured MG patterns

R2-2201687 Summary of 8.22.2 MGE: pre-configured measurement gap Intel

R2-2200219 Stage 3 detail for pre-configured gap Intel Corporation discussion Rel-17 NR\_MG\_enh-Core

R2-2200222 Draft running CR to 38331 for pre-configured measurement gap to support case 5 Intel Corporation draftCR Rel-17 38.331 16.7.0 B NR\_MG\_enh-Core

R2-2200223 Draft running CR to 38331 for pre-configured measurement gap to support case 4 and 5 Intel Corporation draftCR Rel-17 38.331 16.7.0 B NR\_MG\_enh-Core

R2-2200492 Discussion on Pre-configured MG OPPO discussion Rel-17 NR\_MG\_enh-Core

R2-2200499 Discussion on Pre-Configured MG CATT discussion Rel-17 NR\_MG\_enh-Core

R2-2200585 Discussion on per-configured measurement gap vivo discussion Rel-17 NR\_MG\_enh-Core

R2-2200606 Discussion on Pre-Configured MG ZTE Corporation, Sanechips discussion Rel-17 NR\_MG\_enh-Core

R2-2200832 Discussion on Pre-configured MG Huawei, HiSilicon discussion Rel-17 NR\_MG\_enh-Core

R2-2201011 Discussion on support of Pre-Configured Measurement Gap Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MG\_enh-Core

R2-2201247 Discussion on pre-configured MG MediaTek Inc. discussion

R2-2201272 Discussion on Pre-configured MG Xiaomi Communications discussion

R2-2201287 Pre-configured measurement gap LG Electronics discussion

R2-2201288 Draft LS on NW-Controlled activationdeactivation of pre-configured MG LG Electronics LS out To:RAN4

R2-2201567 Pre-configured measurement gaps Ericsson discussion Rel-17 NR\_MG\_enh-Core

R2-2201107 RAN2 impact from Rel-17 Pre-MG Apple discussion NR\_MG\_enh-Core

### 8.22.3 Multiple concurrent and independent MG patterns

R2-2201672 [Pre116bis][012][MGE] Summary of 8.22.3 Multiple concurrent and independent MG patterns (MediaTek) MediaTek Inc.

R2-2200220 Stage 3 detail for concurrent gap Intel Corporation discussion Rel-17 NR\_MG\_enh-Core

R2-2200462 Draft running CR to 38331 for concurrent measurement gap Intel Corporation draftCR Rel-17 38.331 16.7.0 B NR\_MG\_enh-Core

R2-2200493 Discussion on Concurrent MG OPPO discussion Rel-17 NR\_MG\_enh-Core

R2-2200500 Discussion on Concurrent MG CATT discussion Rel-17 NR\_MG\_enh-Core

R2-2200586 Discussion on multiple concurrent and independent MG patterns vivo discussion Rel-17 NR\_MG\_enh-Core

R2-2200607 Association configuration of concurrent measurement gap ZTE Corporation, Sanechips discussion Rel-17 NR\_MG\_enh-Core

R2-2200833 Discussion on Concurrent MG Huawei, HiSilicon discussion Rel-17 NR\_MG\_enh-Core

R2-2201012 Discussion on support of Concurrent Measurement Gap Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MG\_enh-Core

R2-2201274 Discussion on Concurrent MG Xiaomi Communications discussion

R2-2201283 Discussion on concurrent gap MediaTek Inc. discussion

R2-2201286 Concurrent measurement gap LG Electronics discussion

R2-2201568 Concurrent measurement gaps Ericsson discussion Rel-17 NR\_MG\_enh-Core

R2-2201108 Discussion on Rel-17 concurrent gap Apple discussion NR\_MG\_enh-Core

### 8.22.4 Network Controlled Small Gap

R2-2201678 Summary of AI 8.22.4 Network Controlled Small Gap (Apple) Apple

R2-2200494 Discussion on NCSG OPPO discussion Rel-17 NR\_MG\_enh-Core

R2-2200501 MGDiscussion on NCSG CATT discussion Rel-17 NR\_MG\_enh-Core

R2-2200587 Discussion on NCSG vivo discussion Rel-17 NR\_MG\_enh-Core

R2-2200834 Discussion on NCSG Huawei, HiSilicon discussion Rel-17 NR\_MG\_enh-Core

R2-2201013 Discussion on support of Network Controlled Small Gaps (NCSG) Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_MG\_enh-Core

R2-2201106 RAN2 impact from Rel-17 NCSG Apple, MediaTek Inc. discussion NR\_MG\_enh-Core

R2-2201569 Network Controlled Small Gap Ericsson discussion Rel-17 NR\_MG\_enh-Core

## 8.23 Uplink Data Compression (UDC)

(NR\_UDC\_enh-Core; leading WG: RAN2; REL-17; WID: RP-211203)

Time budget: 0.5

Tdoc Limitation: 1 tdocs

### 8.23.1 Organizational

Rapporteur input etc.

Planning

R2-2201276 Work plan for NR UDC CATT Work Plan Rel-17 NR\_UDC-Core R2-2111066

CRs

R2-2201277 Introduction of the support for UDC in NR CATT, CMCC, Huawei, HiSilicon, MediaTek, Ericsson, China Unicom, China Telecom, OPPO, ZTE, Samsung draftCR Rel-17 38.300 16.8.0 B NR\_UDC-Core

R2-2201278 Introduction of the support for UDC in NR CATT, CMCC, Huawei, HiSilicon, MediaTek, Ericsson, China Unicom, China Telecom, OPPO, ZTE, Samsung draftCR Rel-17 38.331 16.7.0 B NR\_UDC-Core

R2-2201279 Introduction of the support for UDC in NR CATT, CMCC, Huawei, HiSilicon, MediaTek, Ericsson, China Unicom, China Telecom, OPPO, ZTE, Samsung draftCR Rel-17 38.323 16.6.0 B NR\_UDC-Core

R2-2201280 Introduction of the support for UDC in NR CATT, CMCC, Huawei, HiSilicon, MediaTek, Ericsson, China Unicom, China Telecom, OPPO, ZTE, Samsung draftCR Rel-17 38.306 16.7.0 B NR\_UDC-Core

R2-2201281 Introduction of the support for UDC in NR CATT, CMCC, Huawei, HiSilicon, MediaTek, Ericsson, China Unicom, China Telecom, OPPO, Samsung draftCR Rel-17 37.340 16.8.0 B NR\_UDC-Core

### 8.23.2 General

Including outcome of [Post116-e][088][UDC] UDC initial discussion (CATT).

Treat Online first

R2-2200039 Report of [Post116-e][088][UDC] UDC initial discussion (CATT)? CATT discussion Rel-17 NR\_UDC-Core

R2-2200977 Discussion on UDC support in NR Huawei, HiSilicon discussion Rel-17 NR\_UDC-Core

R2-2200495 Limit UL data rate for UDC in UE capability MediaTek Inc. discussion

R2-2200581 Issue on UDC continuation Samsung Electronics Polska discussion NR\_UDC-Core

R2-2200724 Remaining issues on NR UDC Qualcomm Incorporated discussion Rel-17 NR\_UDC-Core

R2-2200932 Consideration on NR UDC OPPO discussion Rel-17 NR\_UDC-Core

R2-2201129 Open topics on UDC functionality Apple discussion Rel-17 NR\_UDC-Core

R2-2201227 Furhter Consideration on UDC in NR ZTE Corporation,Sanechips discussion Rel-17 NR\_UDC-Core

R2-2201282 Clarifications on NR UDC applicable scenarios CATT, CMCC discussion Rel-17 NR\_UDC-Core

R2-2201361 Discussion on remaining issues for UDC LG Electronics discussion

=> Revised in R2-2201650

R2-2201650 Discussion on remaining issues for UDC LG Electronics, Ericsson discussion

## 8.24 NR R17 Other

Time budget: 1.5 TU

Includes items and topics without specific R2 Agenda Item. Includes LS in for R17 items not in a specific R2 Agenda Item. In general incoming LSes are always treated with high priority regardless if specific AI or TU allocation exists.

### 8.24.1 RAN4 led Items

e.g. TxD, TX switching, BCS4/5

PUCCH SCell activation I

offline + online

* [AT116bis-e][033][NR17] (Huawei)

 Scope: Treat R2-2200086, R2-2201341, R2-2201502, R2-2201503, R2-2201504. Determine agreeable parts, identify parts for online CB.

 Intended outcome: 1 Report, 2 Reply LS, Draft CRs if applicable.

 Deadline: 1 On-Line CB Thu W1, 2 EOM

R2-2200086 Reply LS on beam information of PUCCH SCell in PUCCH SCell activation procedure (R1-2112858; contact: Huawei) RAN1 LS in Rel-17 NR\_RRM\_enh2-Core To:RAN4 Cc:RAN2

R2-2201341 PUCCH SCell activation Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_RRM\_enh2-Core

R2-2201502 Further discussion on beam information of PUCCH SCell in PUCCH SCell activation (RAN1 LS) Huawei, HiSilicon discussion Rel-17 NR\_RRM\_enh2-Core

R2-2201503 Draft LS Reply on beam information of PUCCH SCell in PUCCH SCell activation procedure Huawei, HiSilicon LS out Rel-17 NR\_RRM\_enh2-Core To:RAN1, RAN4

R2-2201504 Draft CR to TS38.321 for Beam information reporting via MAC CE for PUCCH SCell activation Huawei, HiSilicon draftCR Rel-17 38.321 16.7.0 NR\_RRM\_enh2-Core

R2-2201505 Draft CR to TS38.331 for Beam information reporting via MAC CE for PUCCH SCell activation Huawei, HiSilicon draftCR Rel-17 38.331 16.7.0 NR\_RRM\_enh2-Core

PUCCH SCell activation II

Offline, Conditional start

* [AT116bis-e][034][NR17] PUCCH SCell activation invalid TA (CATT)

 Scope: Delay start of this discussion until R1 has replied to the LS in R2-2200133/R4-2120420, and take the R1 reply into account. Treat R2-2200133, R2-2200891, R2-2200892

 Intended outcome: Report, Approved LS out.

 Deadline: EOM

R2-2200133 LS on interruption for PUCCH SCell activation in invalid TA case (R4-2120420; contact: MediaTek, CATT) RAN4 LS in Rel-17 NR\_RRM\_enh2-Core To:RAN1, RAN2

R2-2200891 Discussion on interruption for PUCCH SCell activation in invalid TA case CATT discussion Rel-17 NR\_RRM\_enh2-Core

R2-2200892 [Draft] Reply LS on interruption for PUCCH SCell activation in invalid TA case CATT LS out Rel-17 NR\_RRM\_enh2-Core To:RAN4 Cc:RAN1

DC location reporting

offline + online

* [AT116bis-e][035][NR17] DC Location Reporting (Qualcomm)

 Scope: Treat R2-2200117, R2-2201059, R2-2201436, R2-2200306. Aim to clarify what RAN2 need to do. Initial Collection of comments. Pave the way for on-line discussion on way forward.

 Intended outcome: Report

 Deadline: For Online CB Thu W1.

R2-2200117 LS on DC location for >2CC (R4-2119965; contact: Qualcomm) RAN4 LS in Rel-17 NR\_RF\_FR2\_req\_enh2-Core To:RAN2

R2-2201059 DC location for >2UL CCs Nokia, Nokia Shanghai Bell discussion Rel-17 NR\_RF\_FR2\_req\_enh2-Core

R2-2201436 Discussion on the DC location report for more than 2CC Huawei, HiSilicon discussion Rel-17 NR\_RF\_FR1-Core

R2-2200306 DC location reporting for more than 2 CCs Qualcomm Incorporated discussion Rel-17 NR\_RF\_FR2\_req\_enh2-Core

UL TX Switching

Offline, can do online CB Mon W2 if needed

* [AT116bis-e][036][NR17] UL TX switching Enh (China Telecom)

 Scope: Treat R2-2200120, R2-2201499, R2-2201500, R2-2201501, R2-2200516. R2-2200519, R2-2200517, R2-2200518, Take into account R2-2200095.

 1: Determine agreeable parts, parts that need CB on-line if any 2: agree updated Running CRs that reflect agreeable parts / agreements.

 Intended outcome: 1 Report, 2 endorsed running CRs

 Deadline: 1 for online CB Mon W2 if CB is needed, 2 EOM

R2-2200120 LS on UL-MIMO coherence for Rel-17 Tx switching (R4-2120039; contact: China Telecom) RAN4 LS in Rel-17 NR\_RF\_FR1\_enh-Core To:RAN2 Cc:RAN1

R2-2201499 Remaining issues to support R17 UL Tx switching enhancement Huawei, HiSilicon, China Telecom, CATT discussion Rel-17 NR\_RF\_FR1\_enh

R2-2201500 RRC configuration to support R17 UL Tx switching enhancements Huawei, HiSilicon, China Telecom, CATT draftCR Rel-17 38.331 16.7.0 NR\_RF\_FR1\_enh

R2-2200516 Running CR to TS 38.306 to support Tx switching enhancements China Telecom, Huawei, HiSilicon, Apple, CATT draftCR Rel-17 38.306 16.7.0 B NR\_RF\_FR1\_enh R2-2110424

R2-2201501 Running CR to TS38.331 to support Tx switching enhancements Huawei, HiSilicon, China Telecom, Apple, CATT draftCR Rel-17 38.331 16.7.0 B NR\_RF\_FR1\_enh R2-2109225

R2-2200519 Discussion on UL MIMO coherence for UL Tx switching China Telecom, Huawei, HiSilicon discussion Rel-17 NR\_RF\_FR1\_enh

R2-2200517 Draft CR to TS 38.306 on UE capability for UL-MIMO coherence for Rel-17 Tx switching China Telecom, Huawei, HiSilicon draftCR Rel-17 38.306 16.7.0 F NR\_RF\_FR1\_enh

R2-2200518 Draft CR to TS 38.331 on UE capability for UL-MIMO coherence for Rel-17 Tx switching China Telecom, Huawei, HiSilicon draftCR Rel-17 38.331 16.7.0 F NR\_RF\_FR1\_enh

FR2 CA BW class

Offline only (if possible)

* [AT116bis-e][037][NR17] FR2 CA BW class (Nokia)

 Scope: Treat R2-2200118, R2-2200839, R2-2200840, R2-2200841, R2-2200843, R2-2201385. Progress the topic, Determine agreeable parts, for agreeable parts, agree CRs, approve reply LS out if agreeable.

 Intended outcome: Report, agreed in principle CRs, Approved LS out if applicable.

 Deadline: EOM (or earlier if online CB is needed, can CB W2).

R2-2200118 LS on release independence aspects of newly introduced FR2 CA BW Classes and CBM/IBM UE capability “both” (R4-2119966; contact: Nokia) RAN4 LS in Rel-17 NR\_RF\_FR2\_req\_enh2-Core To:RAN2

R2-2200839 Introduction of FR2 FBG2 CA BW classes Nokia Italy CR Rel-17 38.331 16.7.0 2867 - B NR\_RF\_FR2\_req\_enh2-Core

R2-2200840 Introduction of CBM/IBM UE capability “both” Nokia Italy CR Rel-17 38.331 16.7.0 2868 - B NR\_RF\_FR2\_req\_enh2-Core

R2-2200841 Introduction of CBM/IBM UE capability “both” Nokia Italy CR Rel-17 38.306 16.7.0 0668 - B NR\_RF\_FR2\_req\_enh2-Core

R2-2200843 Reply LS on release independence aspects of newly introduced FR2 CA BW Classes and CBM/IBM UE capability Nokia Italy LS out Rel-17 NR\_RF\_FR2\_req\_enh2-Core To:RAN4

R2-2201385 Introduction of new FR2 CA bandwidth classes Xiaomi Communications discussion Rel-17 NR\_RF\_FR2\_req\_enh2-Core

FR2 UL Gap

Offline + online

* [AT116bis-e][038][NR17] FR2 UL Gap (Apple)

 Scope: Treat R2-2200122, R2-2201105. Aim to clarify what is needed in R2, determine agreeable parts, open points, pave the way for online disc.

 Intended outcome: Report

 Deadline: CB online Mon W2.

R2-2200122 LS on UL gap in FR2 RF enhancement (R4-2120058; contact: Apple) RAN4 LS in Rel-17 NR\_RF\_FR2\_req\_enh2-Core To:RAN2

R2-2201105 RAN2 impact from UL gap in FR2 RF enhancement Apple discussion NR\_RF\_FR2\_req\_enh2

HST

Offline only

* [AT116bis-e][039][NR17] RRM enh for HST (CMCC)

 Scope: Treat R2-2200123, R2-2201334, R2-2201335, R2-2201336, R2-2200864, R2-2200865. 1 Determine what RAN2 need to do / agreeable parts 2 endorse Draft CRs.

 Intended outcome: Report, endorsed Draft CRs.

 Deadline: EOM (assume no online CB)

R2-2200123 LS on signalling for RRM enhancements for Rel-17 NR FR1 HST (R4-2120286; contact: CMCC) RAN4 LS in Rel-17 NR\_HST\_FR1\_enh To:RAN2

R2-2201334 Discussion on the signaling for RRM enhancement for Rel-17 HST Huawei, HiSilicon discussion

R2-2201335 On the signaling for RRM enhancements for Rel-17 HST Huawei, HiSilicon draftCR Rel-17 38.331 16.7.0 B NR\_HST\_FR1\_enh

R2-2201336 On the UE capabilities for RRM enhancements for Rel-17 HST Huawei, HiSilicon draftCR Rel-17 38.306 16.7.0 B NR\_HST\_FR1\_enh

R2-2200864 Introduction of RRM enhancements for Rel-17 NR FR1 HST CMCC, Ericsson draftCR Rel-17 38.331 16.7.0 B NR\_HST\_FR1\_enh

R2-2200865 Introduction of RRM enhancements for Rel-17 NR FR1 HST CMCC, Ericsson draftCR Rel-17 38.306 16.7.0 B NR\_HST\_FR1\_enh

**BCS4/BCS5**

Offline only

* [AT116bis-e][040][NR17] BCS4/BCS5 (xiaomi)

 Scope: Treat R2-2201371, R2-2201372

 Intended outcome: Agreed in principle CRs.

 Deadline: Friday W1

R2-2201371 Introduction of BCS4 and BCS5 Xiaomi Communications, Samsung, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, OPPO, Huawei, HiSilicon, ZTE Corporation, Sanechips CR Rel-17 38.331 16.7.0 2871 - B NR\_BCS4-Core

R2-2201372 Introduction of BCS4 and BCS5 Xiaomi Communications, Samsung, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, OPPO, Huawei, HiSilicon, ZTE Corporation, Sanechips CR Rel-17 38.306 16.7.0 0669 - B NR\_BCS4-Core

HO with PSCell

Offline only

* [AT116bis-e][041][NR17] HO with PSCell (MediaTek)

 Scope: Treat R2-2200124, R2-2201673 (late), make a reply LS.

 Intended outcome: Approved LS out

 Deadline: Friday W1

R2-2200124 LS on HO with PSCell from NR SA to EN-DC (R4-2120298; contact: MediaTek) RAN4 LS in Rel-17 NR\_RRM\_enh2-Core To:RAN2

R2-2201673 Draft Reply LS on HO with PSCell from NR SA to EN-DC MediaTek Inc.

### 8.24.2 RAN1 led Items

e.g. DSS

* [AT116bis-e][042][NR17] DSS (Ericsson)

 Scope: Treat R2-2200294, R2-2201039, R2-2201040, R2-2201396, R2-2201618. If possible, offline only, if needed CB W2. 1 Determine Agreeable parts 2 Update Running CR(s) to reflect agreeable parts.

 Intended outcome: Report, Endorsed updated CR.

 Deadline: Friday W1

R2-2200294 DSS and RA Procedure Samsung Electronics Co., Ltd discussion Rel-17 LTE\_NR\_DC\_enh2

R2-2201039 RRC running CR for DSS Ericsson draftCR Rel-16 38.331 16.7.0 NR\_DSS\_enh

R2-2201040 RAN2 impact in DSS WI Ericsson discussion NR\_DSS\_enh

R2-2201396 Discussion on Cross-Carrier Scheduling from sSCell to P(S)Cell vivo discussion NR\_DSS\_enh

R2-2201618 Remaining issues on cross-carrier scheduling from SCell to P(S)Cell Huawei, HiSilicon discussion Rel-17 NR\_DSS-Core

### 8.24.3 Other

MINT

Offline

* [AT116bis-e][043][NR17] MINT (Ericsson)

 Scope: Take into account submitted documents incl Reply LS from CT1. Update Running CR to reflect Reply LS from CT1, and other discussion if agreeable. 1 Determine agreeable parts, and points for online CB if any. 2 endorse updated CR

 Intended outcome: Report, endorsed CR

 Deadline: 1 Friday W1 (can CB W2 if needed), 2 EOM

R2-2200061 Response to reply LS on UAC enhancements and system information extensions for minimization of service interruption (C1-217156; contact: Nokia) CT1 LS in Rel-17 MINT To:RAN2

R2-2200151 Reply LS on LS on MINT functionality for Disaster Roaming (S3-214416; contact: LGE) SA3 LS in Rel-17 MINT To:SA2 Cc:SA5, CT1, CT4, CT6, RAN2, SA, CT, RAN

R2-2201471 Resolving open isseus for supporting disaster roaming LG Electronics discussion Rel-17

R2-2201437 Introduction of MINT for LTE Huawei, HiSilicon CR Rel-17 36.331 16.7.0 4751 - B MINT

R2-2201141 Further discussion on support of MINT feature in AS Lenovo, Motorola Mobility discussion Rel-17 MINT

R2-2201142 Introduction of MINT feature in TS 38.306 Lenovo, Motorola Mobility draftCR Rel-17 38.306 16.7.0 B MINT

R2-2201143 Introduction of MINT feature in TS 36.306 Lenovo, Motorola Mobility draftCR Rel-17 36.306 16.7.0 B MINT

R2-2201552 Remaining issues for MINT Ericsson other Rel-17

R2-2201550 Introduction of MINT Ericsson draftCR Rel-17 38.331 16.7.0 B TEI17

R2-2201551 Introduction of MINT Ericsson draftCR Rel-17 36.331 16.7.0 B TEI17

RRC Resume Security

Offline only

* [AT116bis-e][044][NR17] RRC resume security (NTT DOCOMO)

 Scope: Reply to LS in R2-2200154. Consider R2-2201506, R2-2201161, R2-2201162 (chair comment: pl consider also that R2 doesn’t need to reply to aspects typically in R3 domain).

 Intended outcome: Approved LS out

 Deadline: EOM

R2-2200154 LS Reply on security protection of RRCResumeRequest message (S3-214539; contact: NTT DOCOMO) SA3 LS in Rel-17 FS\_5GFBS To:RAN2, RAN3

R2-2201506 Security protection on RRCResumeRequest message (SA3 LS) Huawei, HiSilicon discussion Rel-17 FS\_5GFBS

R2-2201161 Clarifications on security protection of RRCResumeRequest message Ericsson discussion Rel-17 FS\_5GFBS

R2-2201162 [Draft] Reply LS on security protection of RRCResumeRequest message Ericsson LS out Rel-17 FS\_5GFBS To:SA3, RAN3

Duplicate Measurement

Offline only

* [AT116bis-e][045][NR17] Duplicate Measurement Reply LS (Qualcomm)

 Scope: Treat R2-2200135, R2-2201083, R2-2201084. Make a reply LS

 Intended outcome: Approved reply LS

 Deadline: Friday W1

R2-2200135 LS on Duplicate Measurements when SCell is a Neighbor Cell (R5-217991; contact: Qualcomm) RAN5 LS in Rel-15 5GS\_NR\_LTE-UEConTest To:RAN2

R2-2201083 Response LS on duplicated measurements for SCell Nokia, Nokia Shanghai Bell LS out Rel-17 To:RAN5

R2-2201084 On duplicated measurement results when SCell is a neighbour Nokia, Nokia Shanghai Bell discussion Rel-17

EVEX

R2-2200155 Reply LS to CT3 Questions and Feedback on EVEX (S4-211647; contact: Qualcomm) SA4 LS in Rel-17 EVEX To:CT3 Cc:SA2, SA3, SA6, RAN2

[000] Proposed Noted (no action)

# 9 Rel-17 EUTRA Work Items

## 9.0 EUTRA Rel-17 General

Tdoc Limitation: 0 tdocs

No documents should be submitted to 9.0. Please submit to 9.0.x

### 9.0.1 L1 parameters and cross-WI RRC aspects

Including RRC details on L1 parameters for Rel-17 WIs that require discussion in the common session or are related to multiple Rel-17 WIs.

This Agenda item will not be treated and no input is expected.

### 9.0.2 Feature Lists and UE capabilities

Corrections to UE capabilities should be taken up with the 36.331 and 36.306 specification editors before submitting to avoid CR duplication. If this is not done, the contribution may not be treated.

This Agenda item will not be treated and no input is expected.

R2-2200090 LS on updated Rel-17 RAN1 UE features list for LTE (R1-2112901; contact: NTT DOCOMO, AT&T) RAN1 LS in Rel-17 NB\_IOTenh4\_LTE\_eMTC6, LTE\_NBIOT\_eMTC\_NTN, LTE\_terr\_bcast\_bands\_part1, NR\_SL\_enh To:RAN2 Cc:RAN4

## 9.1 NB-IoT and eMTC enhancements

(NB\_IOTenh4\_LTE\_eMTC6-Core; leading WG: RAN1; REL-17; WID: RP-211340)

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

Email max expectation: 4 threads

### 9.1.1 Organizational

Including outcome of [Post116-e][306][NBIOT/eMTC R17] 36.300 running CR (Huawei)

Including outcome of [Post116-e][307][NBIOT/eMTC R17] 36.331 running CR (Qualcomm)

Including outcome of [Post116-e][308][NBIOT/eMTC R17] 36.304 running CR (Nokia)

Including outcome of [Post116-e][309][NBIOT/eMTC R17] 36.306 running CR (ZTE)

R2-2200027 [Running CR] Introduction of NB-IoT/eMTC Enhancements Qualcomm Incorporated draftCR Rel-17 36.331 16.7.0 B NB\_IOTenh4\_LTE\_eMTC6-Core R2-2110692

R2-2200029 Running CR: Introduction of additional enhancements for NB-IoT and eMTC ZTE Corporation, Sanechips draftCR Rel-17 36.306 16.7.0 B NB\_IOTenh4\_LTE\_eMTC6-Core

R2-2200048 Running CR: Introduction of Rel-17 enhancements for NB-IoT and eMTC Huawei draftCR Rel-17 36.300 16.7.0 B NB\_IOTenh4\_LTE\_eMTC6-Core R2-2110477

R2-2200058 [Running CR] Introduction of NB-IoT/eMTC Enhancements Nokia draftCR Rel-17 36.304 16.6.0 B NB\_IOTenh4\_LTE\_eMTC6-Core

R2-2200093 LS on channel quality reporting for NB-IoT (R1-2112971; contact: Huawei) RAN1 LS in Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core To:RAN2, RAN4

### 9.1.2 NB-IoT neighbor cell measurements and corresponding measurement triggering before RLF

Including outcome of [Post116-e][310][NBIOT/eMTC R17] RLF measurements (Qualcomm)

Contributions invited on open issues not covered by email discussion

R2-2200028 Report of [Post116-e][310][NBIOT/eMTC] RLF measurements Qualcomm Incorporated report Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

R2-2200675 On remaining issues for connected mode measurements for RLF Nokia, Nokia Shanghai Bells discussion Rel-17

R2-2200681 Remaining FFSs on connected mode measurement ZTE Corporation, Sanechips discussion NB\_IOTenh4\_LTE\_eMTC6-Core

R2-2201020 Consideration on open issues for neighbour cell measurement in RRC connected state Qualcomm Incorporated discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

R2-2201077 Discussion on connected mode measurement in NB-IoT Ericsson discussion Rel-17

R2-2201534 Support of Early rLF THALES discussion Late

### 9.1.3 NB-IoT carrier selection based on the coverage level, and associated carrier specific configuration

Including outcome of [Post116-e][311][NBIOT/eMTC R17] NB-IoT carrier selection (ZTE)

Contributions invited on open issues not covered by email discussion

R2-2200030 Report of [Post116-e][311] NB-IoT carrier selection ZTE Corporation, Sanechips discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

R2-2200633 The remaining issues on enhanced paging carrier selection Spreadtrum Communications discussion Rel-17

R2-2200676 Further details on coverage level based paging carrier selection Nokia, Nokia Shanghai Bells discussion Rel-17

R2-2200682 Remaining FFSs on CEL-based paging carrier selection ZTE Corporation, Sanechips discussion NB\_IOTenh4\_LTE\_eMTC6-Core

R2-2200866 Discussion on the issue for Random Access on multicarrier for NB-IoT CMCC discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

R2-2200867 Solution for random access issue on multiCarrier in NB-IoT CMCC draftCR Rel-17 36.331 16.7.0 B NB\_IOTenh4\_LTE\_eMTC6-Core

R2-2200868 Solution for random access issue on multiCarrier in NB-IoT CMCC draftCR Rel-17 36.321 16.6.0 B NB\_IOTenh4\_LTE\_eMTC6-Core

R2-2200922 Discussion on details of paging carrier selection MediaTek Inc. discussion NB\_IOTenh4\_LTE\_eMTC6-Core

R2-2201021 Paging carrier selection with hysteresis Qualcomm Incorporated discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

R2-2201022 Signalling for coverage-based paging carrier selection Qualcomm Incorporated discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

R2-2201076 Remaining issues of carrier selection Ericsson discussion Rel-17

### 9.1.4 Other

Includes WI objectives led by other WGs.

R2-2200677 On thje open issues for 16QAM for NB-IoT Nokia, Nokia Shanghai Bells discussion Rel-17

R2-2200683 Remaining FFSs on 16QAM for NB-IoT and 1736bits TBS for eMTC ZTE Corporation, Sanechips discussion NB\_IOTenh4\_LTE\_eMTC6-Core

R2-2201078 Support of 16-QAM for unicast in UL and DL in NB-IoT Ericsson discussion Rel-17

R2-2201448 Introduction of Rel-17 enhancements for NB-IoT and eMTC Huawei, HiSilicon draftCR Rel-17 36.302 16.1.0 B NB\_IOTenh4\_LTE\_eMTC6-Core

R2-2201449 CQI reporting for 16QAM DL Huawei, HiSilicon discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

R2-2201450 UE capabilities and FDD/TDD, EPC/5GC differentiation Huawei, HiSilicon discussion Rel-17 NB\_IOTenh4\_LTE\_eMTC6-Core

## 9.2 NB-IoT and eMTC support for NTN

(LTE\_NBIOT\_eMTC\_NTN; leading WG: RAN1; REL-17; WID: RP‑211601)

Time budget: 0.5 TU

Tdoc Limitation: 3 tdocs (+1 for 9.2.5)

Email max expectation: 3 threads

RP 93e: An LS was sent to SA asking about NAS support for discontinous coverage and WUS. Understanding that RAN work on discontinous coverage shall continue for now (also WUS work if any is needed).

### 9.2.1 Organizational

Rapporteur Input, incoming LSes

On specific request, we will reply to the following LS (it was already replied from NR NTN session for NR). LS contact company is asked to organize such reply. If desired, companies may submit one more tdoc beyond limit for information, for the purpose to help facilitating the reply: R2-2109307 LS on extended NAS supervision timers at satellite access (C1-215074; contact: Ericsson) CT1 LS in Rel-17 5GSAT\_ARCH-CT To:RAN2 Cc:RAN2

LS in

R2-2200064 Reply LS on EPS support for IoT NTN in Rel-17 (C1-217258; contact: MediaTek) CT1 LS in Rel-17 LTE\_NBIOT\_eMTC\_NTN, IoT\_SAT\_ARCH\_EPS To:SA2, RAN2, CT, RAN, SA Cc:CT4, RAN3

R2-2200084 LS on GNSS Validity duration for IoT NTN (R1-2112848; contact: MediaTek) RAN1 LS in Rel-17 LTE\_NBIOT\_eMTC\_NTN To:RAN2

R2-2200146 Reply LS on EPS support for IoT NTN in Rel-17 (S2-2109344; contact: MediaTek) SA2 LS in Rel-17 LTE\_NBIOT\_eMTC\_NTN, IoT\_SAT\_ARCH\_EPS To:RAN, CT, CT1, SA, RAN2 Cc:RAN3, CT3, CT4

CRs

Note that RRC CR has been updated with latest L1 parameters

* [AT116bis-e][046][IoT-NTN] RRC Misc (Huawei)

 Scope: Review of the last update IN R2-2201451 (including Latest L1 parameters). This phase of the discussion is offline only. If issues are found, capture as editors notes (or in an annex etc).

 Intended outcome: Report

 Deadline: Initial review during W1.

R2-2201451 Running CR - Support of Non-Terrestrial Network in NB-IoT and eMTC Huawei draftCR Rel-17 36.331 16.7.0 B LTE\_NBIOT\_eMTC\_NTN R2-2111436

Extended NAS supervision timers

Online first – Shall we reply with numbers or without numbers?

R2-2201602 Discussion on IoT NTN reply LS to CT1 on extended NAS supervision timers Ericsson discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2201603 Draft reply LS to CT1 on IoT NTN extended NAS supervision timers Ericsson LS out Rel-17 LTE\_NBIOT\_eMTC\_NTN, 5GSAT\_ARCH-CT To:CT1 Cc:RAN3, SA2

R2-2201619 Discussion on reply on extended NAS supervision timers for IoT NTN Nokia, Nokia Shanghai Bell discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2201452 Extended NAS timers for IOT NTN Huawei, HiSilicon discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

Moved here

### 9.2.2 Support of Non continuous coverage

Open Issues: which IEs to reuse, how to transfer the IEs to the UEs, whether any other aspects need to be specified.

R2-2201688 [Pre116bis][014][IOT-NTN] Summary of 9.2.2 Support of Non continuous coverage (MediaTek) MediaTek Inc

R2-2200217 Discussion on remaining issues on Non continuous coverage Intel Corporation discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2200252 Discussion on the support of discontinuous coverage for IoT over NTN OPPO discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2200440 Details on the support of the discontinuous coverage Qualcomm Incorporated discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

R2-2200623 On Discontinuous coverage in IoT-NTN MediaTek Inc. discussion

R2-2200634 Discussion on the remaining issue of non-continuous coverage Spreadtrum Communications discussion Rel-17

R2-2200651 Discussion on the support of discontinuous coverage for IoT over NTN Transsion Holdings discussion Rel-17

R2-2200691 Discussion on supporting non-continuous coverage CATT discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2200694 Remaining FFSs on discontinuous coverage in IoT NTN ZTE Corporation, Sanechips discussion FS\_LTE\_NBIOT\_eMTC\_NTN

R2-2200713 Discussion on discontinuous coverage Xiaomi discussion

R2-2200768 Prediction of coverage discontinuity for IoT NTN Lenovo, Motorola Mobility discussion Rel-17

R2-2200769 Enhancement for idle UE power saving in discontinuous coverage Lenovo, Motorola Mobility discussion Rel-17

R2-2200850 Discussion on open issues for support of Non continuous coverage CMCC discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2201009 Discussion on remaining aspects of discontinuous coverage in IoT NTN Nokia, Nokia Shanghai Bell discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2201017 On satellite ephemeris information types for discontinuous coverage in IoT-NTN Sateliot, Gatehouse discussion

R2-2201181 Support of discontinuos coverage Apple discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN R2-2110071

R2-2201453 Discussion on non continuous coverage Huawei, HiSilicon discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2201546 Support of Discontinuous Coverage for IoT-NTN Interdigital, Inc. discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2201599 Discontinuous coverage in IoT NTN Ericsson discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2201620 Support for Discontinuous Coverage NB IoT NTN Rakuten Mobile, Inc discussion Rel-17

### 9.2.3 User Plane Impact

Expect to converge on UP agreements based on NR NTN progress. Expect to address Open Issues.

R2-2201655 [Pre116bis][015][IOT-NTN] Summary of 9.2.3 User Plane Impact (OPPO) OPPO discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN-Core

R2-2200253 Discussion on UP impact for IoT over NTN OPPO discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2200692 Discussion on TA information reporting for IoT NTN CATT discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2200698 Remaining FFSs on UP in IoT NTN ZTE Corporation, Sanechips discussion FS\_LTE\_NBIOT\_eMTC\_NTN

R2-2200878 Remaining issues on UP aspects for IoT-NTN CMCC discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2201010 On User Plane left issues for IoT NTN Nokia, Nokia Shanghai Bell discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2201454 User plane for IOT NTN Huawei, HiSilicon discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2201631 User plane aspects of NB-IoT and LTE-M in NTNs Ericsson discussion

### 9.2.4 Control Plane Impact

Expect to converge on CP agreements based on NR NTN progress. Expect to address open issues, e.g. as indicated in the RRC Running CR: TAC removal in SIB, NB-IOT: whether TAC list is per PLMN or shared between PLMN, Trigger(s) for reading NTN SIB, Handling of UL Synchronisation validity timer / timer expiry, Need for a mechanism to prevent legacy / non-NTN capable UE to access a NTN cell, Location reporting via RRC, Handling of GNSS fix validity.

RRC signalling details to be addressed offline.

R2-2201660 [Pre116bis][016][IOT-NTN] Summary of 9.2.4 Control Plane Impact (Huawei) Huawei

R2-2201455 Control plane for IOT NTN Huawei, HiSilicon discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2200218 Discussion on new barring bit Intel Corporation discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2200254 Discussion on CP impact for IoT over NTN OPPO discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2200273 RAN2 aspects of UL sync validity timer and GNSS position validity Xiaomi discussion Rel-17

R2-2200441 UL synchronization validity timer in RRC\_CONNECTED Qualcomm Incorporated discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN R2-2109966

R2-2200442 Discussion on the GNSS validity duration Qualcomm Incorporated discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

R2-2200622 On GNSS Validity Duration in IoT-NTN MediaTek Inc. discussion

R2-2200624 Validity Timer Expiry and Synchronization Loss in IoT-NTN MediaTek Inc. discussion

R2-2200673 Further discussion on remaining control plane issues for IoT-NTN control plane Nokia, Nokia Shanghai Bells discussion Rel-17

R2-2200693 Discussion on the open issues of CP impact CATT discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2200699 Remaining FFSs on CP in IoT NTN ZTE Corporation, Sanechips discussion FS\_LTE\_NBIOT\_eMTC\_NTN

R2-2200714 Discussion on RRC idle mode issues for IoT NTN Xiaomi discussion

R2-2200770 Serving and neighboring ephemeris in system information for IoT NTN Lenovo, Motorola Mobility discussion Rel-17

R2-2200871 Remaining Issues of CP Impact of IoT over NTN CMCC discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2201182 Provision of ephemeris Apple discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN R2-2110072

R2-2201197 Soft TAC update NEC Telecom MODUS Ltd. discussion

R2-2201547 Location Reporting in RRC\_CONNECTED Interdigital, Inc. discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2201548 TAC validity timer Interdigital, Inc. discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2201600 Control plane aspects of IoT NTN Ericsson discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

### 9.2.5 UE Capabilities

For an initial discussion of UE capabilities, there may be an offline effort,

* [AT116bis-e][047][IoT-NTN] UE capabilities (Nokia)

 Scope: Take into account proposals of documents submitted under 9.2.5, find agreements if possible (can agree offline), identify open points. This discussion is offline only.

 Intended outcome: Report

 Deadline: EOM

R2-2200255 Discussion on IoT NTN UE capabilities OPPO discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2200443 Discussion on UE capabilities Qualcomm Incorporated discussion Rel-17 FS\_LTE\_NBIOT\_eMTC\_NTN

R2-2200674 Analysis on IoT-NTN UE capability requirements Nokia, Nokia Shanghai Bells discussion Rel-17

R2-2200702 Consideration on UE capability report for IoT NTN ZTE Corporation, Sanechips discussion FS\_LTE\_NBIOT\_eMTC\_NTN

R2-2200875 RAN2 UE Feature List for IoT NTN CMCC discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2201456 Discussion on UE capability Huawei, HiSilicon discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

R2-2201601 IoT NTN capabilities Ericsson discussion Rel-17 LTE\_NBIOT\_eMTC\_NTN

## 9.3 EUTRA R17 Other

Time budget: 0 TU

Tdoc Limitation: No limitation but the AI may be entirely deprioritized depending on available time.

Email max expectation: 2 threads

This agenda item may be deprioritized in this meeting.

For TEI17, ONLY incoming LSes and tdocs related to replying to the LSs.

R2-2200153 LS on LTE User Plane Integrity Protection (S3-214462; contact: Vodafone) SA3 LS in Rel-17 UPIP\_SEC\_LTE To:RAN2, RAN3 Cc:SA, RAN

R2-2200209 Introduction of new bands and bandwidth allocation for LTE-based 5G terrestrial broadcast Qualcomm Incorporated CR Rel-17 36.331 16.7.0 4750 - B LTE\_terr\_bcast\_bands\_part1-Core

R2-2200368 On introducing height information reporting in MDT reports KDDI Corporation, Ericsson draftCR Rel-17 36.331 16.7.0 B TEI17

R2-2200370 On introducing height information reporting in MDT reports KDDI Corporation, Ericsson draftCR Rel-17 37.320 16.7.0 B TEI17

R2-2200371 On introducing height information reporting in MDT reports KDDI Corporation, Ericsson draftCR Rel-17 36.306 16.7.0 TEI17

R2-2201513 Draft CR to TS 36.331 to support UP IP for EPC connected architectures using NR PDCP Huawei, HiSilicon, Vodafone draftCR Rel-17 36.331 16.7.0 UPIP\_SEC\_LTE

R2-2201514 Draft CR to TS 38.331 to support UP IP for EPC connected architectures using NR PDCP Huawei, HiSilicon, Vodafone draftCR Rel-17 38.331 16.7.0 UPIP\_SEC\_LTE

R2-2201515 Draft CR to TS 36.300 to support UP IP for EPC connected architectures using NR PDCP Huawei, HiSilicon, Vodafone draftCR Rel-17 36.300 16.7.0 UPIP\_SEC\_LTE

R2-2201516 Draft CR to TS 37.340 to support UP IP for EPC connected architectures using NR PDCP Huawei, HiSilicon, Vodafone draftCR Rel-17 37.340 16.8.0 UPIP\_SEC\_LTE

R2-2201517 Draft CR to TS 38.323 to support UP IP for EPC connected architectures using NR PDCP Huawei, HiSilicon, Vodafone draftCR Rel-17 38.323 16.6.0 UPIP\_SEC\_LTE

R2-2201525 Discussion on LTE User Plane Integrity Protection (SA3 LS) Huawei, HiSilicon discussion Rel-17 UPIP\_SEC\_LTE

R2-2201621 Proposal to respond to SA3 LS S3-214462 (R2-2200153) on LTE User Plane Integrity Protection VODAFONE Group Plc discussion Rel-17

## 9.4 NR and EUTRA Inclusive language

Time budget: N/A

RAN coordinator for inclusive language is Gino Masini (Ericsson).

CRs were endorsed/agreed-in-principle at R2#112-e. Final approval is expected when R17 TSes are to be created and at that point CRs need to be updated towards latest TS version and submitted again.

Including any updates to the RAN2-endorsed inclusive language CRs ( e.g. for inter-group consistency, inter-group review etc)

This Agenda item will not be treated and no input is expected.

R2-2200159 Reply LS on Inclusive language for ANR (S5-216197; contact: Huawei) SA5 LS in Rel-17 TEI17 To:RAN2 Cc:RAN3, RAN, SA