3GPP TSG-RAN WG2 Meeting #131bis draft R2-2507702

Prague, Czech Republic, Oct. 13th-17th

Source: RAN2 Vice Chairman (CATT)

Title: Report from session on Rel-18 MIMO, Rel-19 MIMO, LPWUS, SBFD, NR Others

Agenda item: 11.2

## Organizational email discussion

* [AT131bis][200] Organizational – Rel-18 MIMO, Rel-19 MIMO, LPWUS, SBFD, NR Others (RAN2 VC)

Scope:

a) Share plans for online/offline discussions during the meeting, and

b) Share draft session notes and agreements for review

#### 7.0.2.13 NR MIMO evolution

(NR\_MIMO\_evo\_DL\_UL-Core; leading WG: RAN1; REL-18; WID: [RP-233028](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_98e/Docs/RP-223276.zip))

R2-2506731 Reply LS on maximum transmission power for STxMP (R4-2511781; contact: vivo) RAN4 LS in Rel-20 NR\_MIMO\_evo\_DL\_UL-Core To:RAN1 Cc:RAN2

* ?? Noted

On dependency of group-based beam reporting

R2-2507547 Correction on dependency of group-based beam reporting Nokia CR Rel-18 38.331 18.7.0 5543 - F NR\_MIMO\_evo\_DL\_UL-Core

R2-2507548 Correction on dependency of group-based beam reporting Nokia CR Rel-19 38.331 19.0.0 5544 - A NR\_MIMO\_evo\_DL\_UL-Core

# 8 Rel-19

## 8.4 Low-power wake-up signal and receiver for NR (LP-WUS/WUR)

(NR\_LPWUS-Core; leading WG: RAN1; REL-19; WID RP-251200)

Time budget: 0 TU

Tdoc Limitation: 3 tdocs

### 8.4.1 Organizational

LS, Rapporteur input, etc.

R2-2506727 LS on allocation of CN assigned subgroup ID for LP-WUS (R3-255941; contact: NTT DOCOMO) RAN3 LS in Rel-19 NR\_LPWUS-Core To:SA2 Cc:RAN2, RAN1

* ?? Noted

38.304

R2-2506862 List of open issues for LP-WUS 38.304 CR CATT discussion Rel-19 NR\_LPWUS-Core

R2-2506861 Corrections on LP-WUS in TS 38.304 CATT CR Rel-19 38.304 18.4.0 0447 - F NR\_LPWUS-Core

38.331

R2-2507008 LPWUS RILs resolutions (based on review file v17) vivo discussion Rel-19 NR\_LPWUS-Core

R2-2507007 Miscellaneous corrections on RRC for Rel-19 LP-WUS WUR vivo (Rapporteur) CR Rel-19 38.331 19.0.0 5503 - F NR\_LPWUS-Core

38.321

R2-2507104 Open issues on Rel-19 LPWUS 38.321 CR Apple(Rapporteur) discussion Rel-19

*Proposal 2: Confirm UE does not monitor LP-WUS when short DRX cycle is used in either DRX group when secondary DRX group is configured.*

*Proposal 3: Confirm UE enables the LP-WUS monitoring only based on RRC configuration.*

*Proposal 4: Confirm in Option 1-2 when UE is in CDRX active time but LP-WUS monitoring timer is not running, the legacy UE operation on CSI/SRS transmission in active time is applied.*

*Proposal 5: Confirm in Option 1-2 when UE is in CDRX active time and LP-WUS monitoring timer is running, the legacy UE operation on CSI/SRS transmission in active time is applied.*

The following 5 contributions are moved to 8.4.4

R2-2507639 Miscellaneous corrections for LP-WUS Ericsson CR Rel-19 38.300 19.0.0 1046 - F NR\_LPWUS-Core Revised

R2-2507640 Miscellaneous corrections for LP-WUS Ericsson CR Rel-19 38.300 19.0.0 1046 1 F NR\_LPWUS-Core R2-2507639

R2-2507369 Open issue of LP-WUS in TS37.340 ZTE Corporation, Sanechips report Rel-19 NR\_LPWUS-Core

R2-2507370 Correction on LP-WUS in TS 37.340 ZTE Corporation, Sanechips, Xiaomi CR Rel-19 37.340 19.0.0 0424 - F NR\_LPWUS-Core

R2-2507156 List of open issues for Rel-19 LP-WUS UE capabilities Huawei, HiSilicon (Rapporteur) discussion Rel-19

### 8.4.2 RRC issues

Issues related to RILs, other remaining RRC issues

Co-existence of LP-WUS in idle/inactive and paging adaptation (C026)

R2-2506864 [C026] Co-existence of LP-WUS with paging adaptation CATT discussion Rel-19 NR\_LPWUS-Core

*Proposal 1: Support the co-existence of LP-WUS and paging adaptation in RRC\_IDLE/INACTIVE.*

*Proposal 2: lpwus-PoNumPerLo-r19 is common for both legacy paging and Rel-19 paging adaptation.*

*Proposal 3: Separate lpwus-LoFrameOffsetList-r19 is introduced for Rel-19 paging adaptation.*

*Proposal 4: If separate parameter for paging adaptation with LP-WUS, i.e., separate lpwus-LoFrameOffsetList, is signaled in system information, a UE supporting paging adaptation and LP-WUS can monitor the LP-WUS occasion according the parameters.*

R2-2507009 [V001-V006, C026, H053/054, E036] Discussion on RRC open issues for LP-WUS WUR vivo discussion Rel-19 NR\_LPWUS-Core

*Proposal 9: (C026) LP-WUS could coexist with all Rel-19 features, unless critical issue is identified, detailed spec change discussed in CR phase.*

Empty UAI for report for LP-WUS time offset (E009, V001, C031, Z052)

R2-2506863 [E009][H050][V001][C031][H055]Discussion on RRC open issues CATT discussion Rel-19 NR\_LPWUS-Core

*Proposal 1: If the UE has no preference on offset for LP-WUS monitoring of the cell group, the UE do not include timeOffset in the LPWUS-OffsetPreference IE.*

R2-2507041 Discussion on [RIL] O701 Whether UE can report an empty preference time offset OPPO discussion Rel-19 NR\_LPWUS-Core

*Proposal 1 RAN2 discuss and decide the following options on whether allow UE report an empty preference time offset to NW:*

*Option1: It is allowed to report an empty preference time offset for LP-WUS monitoring to NW and adopt the TP1 in Appendix.*

*Option2: It is not allowed to report an empty preference time offset for LP-WUS monitoring to NW and adopt the TP2 in Appendix.*

UAI for disabling LP-WUS (H050, E043)

R2-2507331 [H050][H053][H054][H055] Discussion on LP-WUS RILs Huawei, HiSilicon discussion Rel-19 Late

*Proposal 1: UE can send UAI to the network indicating to disable the LP-WUS functionality or whether the LP-WUS can be enabled again.*

*Proposal 2: When to send the UAI is up to UE implementation, without additional trigger conditions/thresholds.*

R2-2507626 LP-WUS issues (E035, E036, E037, E043, 38304-2, C026) Ericsson discussion Rel-19 NR\_LPWUS-Core Late

*Proposal 9 NW can configure an exit condition for LP-WUS monitoring in connected mode based on RLM/BFD measurements.*

R2-2507236 Discussion about LP-WUS RILs H050, E043, C026, V001, Z052 and V002 ZTE Corporation, Sanechips discussion Rel-19 NR\_LPWUS-Core

*Proposal 1 [H050, E043] UE is able to notify network about its preference on whether to apply LP-WUS mechanism, preferably, via UAI.*

R2-2507344 Discussion about LP-WUS RILs E034, E035, E037, E043, V002, H050, H053, H054 Nokia discussion Rel-19 NR\_LPWUS-Core

*Proposal 2: [H050, E043] The NW can configure LR measurement triggering condition for UAI for LP-WUS.*

R2-2507350 Discussion on RIL in LP-WUS RRC Qualcomm Incorporated discussion NR\_LPWUS-Core

*Proposal 1 For both of Option 1-1 and Option 1-2, UE needs to indicate to the gNB when the UE enters or leave LP-WUS mode.*

*Proposal 2 For option 1-2, gNB needs to send a switching command to UE in order for UE switching from LP-WUS mode to legacy PDCCH monitoring with/without DCP.*

Relationship between thresholds for LP-WUS monitoring and RRM relaxation/offloading (V002-V006)

R2-2507009 [V001-V006, C026, H053/054, E036] Discussion on RRC open issues for LP-WUS WUR vivo discussion Rel-19 NR\_LPWUS-Core

*Proposal 3: (V002) The MR-based thresholds of the entry condition for R19 RRM relaxation should be lower than or equal to the thresholds of the entry condition for LP-WUS monitoring.*

*Proposal 4: (V003) The LR-based thresholds of the entry condition for R19 RRM relaxation should be lower than or equal to the thresholds of the entry condition for LP-WUS monitoring.*

*Proposal 5: (V004) The MR-based thresholds of the entry condition for serving cell RRM offloading should be higher than or equal to the thresholds of the entry condition for LP-WUS monitoring.*

*Proposal 6: (V005) The LR-based thresholds of the entry condition for serving cell RRM offloading should be higher than or equal to the thresholds of the entry condition for LP-WUS monitoring.*

*Proposal 7: (V006) The LR-based thresholds of the exit condition for serving cell RRM offloading should be higher than or equal to the thresholds of the exit condition for LP-WUS monitoring.*

R2-2507082 Remaining issues on LP-WUS paging monitoring and proposed TP to 3331,304 Xiaomi Communications, Huawei, HiSilicon, ZTE Corporation, Sanechips, Qualcomm Incorporated, Ericsson, Apple, Lenovo discussion

*Proposal 1 The UE is allowed to monitor LP-WUS when the UE is in either Rel-19 RRM offload state or in Rel-19 RRM relaxation state. No extra entry/exit condition for LP-WUS monitoring is needed.*

R2-2507236 Discussion about LP-WUS RILs H050, E043, C026, V001, Z052 and V002 ZTE Corporation, Sanechips discussion Rel-19 NR\_LPWUS-Core

*Proposal 4 [V002, V003, V004, V005] Merging LP-WUS monitoring thresholds into Offloading/Relaxation condition, e.g., UE starts the LP-WUS monitoring either in Offloading or Relaxation scenarios, there are no separate thresholds for LP-WUS monitoring.*

RAN2 impacts for Type 1 and Type 2 LR (H053, H054, E036)

R2-2507331 [H050][H053][H054][H055] Discussion on LP-WUS RILs Huawei, HiSilicon discussion Rel-19 Late

*Proposal 3: RAN2 to create the separate sets of entry/exit thresholds for both LR types defined by RAN4.*

R2-2507626 LP-WUS issues (E035, E036, E037, E043, 38304-2, C026) Ericsson discussion Rel-19 NR\_LPWUS-Core Late

*Proposal 4 Introduce a flag in SIB to prohibit Type 2 WUR to use LP-WUS in the cell e.g. when LP-WUS cannot be configured with sufficient guard band for type 2 WUR.*

TTT for RRM relaxation entry (E035)

R2-2507626 LP-WUS issues (E035, E036, E037, E043, 38304-2, C026) Ericsson discussion Rel-19 NR\_LPWUS-Core Late

*Proposal 10 NW can configure a TimeToTrigger (TTT) with the RRM relaxation entry condition.*

*Chair: Other issues if any can be discussed if time allows.*

R2-2506863 [E009][H050][V001][C031][H055]Discussion on RRC open issues CATT discussion Rel-19 NR\_LPWUS-Core

R2-2506864 [C026] Co-existence of LP-WUS with paging adaptation CATT discussion Rel-19 NR\_LPWUS-Core

R2-2506953 Discussion on LP-WUS RRC remaining issue NEC discussion Rel-19 NR\_LPWUS-Core

R2-2507009 [V001-V006, C026, H053/054, E036] Discussion on RRC open issues for LP-WUS WUR vivo discussion Rel-19 NR\_LPWUS-Core

R2-2507041 Discussion on [RIL] O701 Whether UE can report an empty preference time offset OPPO discussion Rel-19 NR\_LPWUS-Core

R2-2507082 Remaining issues on LP-WUS paging monitoring and proposed TP to 3331,304 Xiaomi Communications, Huawei, HiSilicon, ZTE Corporation, Sanechips, Qualcomm Incorporated, Ericsson, Apple, Lenovo discussion

R2-2507155 Discussion on open issues 38304-1 and 38304-3 for R19 LP-WUS Huawei, HiSilicon discussion Rel-19

R2-2507236 Discussion about LP-WUS RILs H050, E043, C026, V001, Z052 and V002 ZTE Corporation, Sanechips discussion Rel-19 NR\_LPWUS-Core

R2-2507331 [H050][H053][H054][H055] Discussion on LP-WUS RILs Huawei, HiSilicon discussion Rel-19 Late

R2-2507344 Discussion about LP-WUS RILs E034, E035, E037, E043, V002, H050, H053, H054 Nokia discussion Rel-19 NR\_LPWUS-Core

R2-2507350 Discussion on RIL in LP-WUS RRC Qualcomm Incorporated discussion NR\_LPWUS-Core

R2-2507504 RRC issues on LP-WUS InterDigital, Inc. discussion Rel-19 NR\_LPWUS-Core

R2-2507626 LP-WUS issues (E035, E036, E037, E043, 38304-2, C026) Ericsson discussion Rel-19 NR\_LPWUS-Core Late

### 8.4.3 MAC issues

Remaining MAC issues

On P1 in R2-2507104 (Proposal 1: Revisit the UE operation in LP-WUS collision for Option 1-2, which should be based on critical issues in the current RAN2 agreements. (based on contribution))

R2-2507627 LP-WUS MAC issue (Eri-001 and Proposal 1 in #213) Ericsson discussion Rel-19 NR\_LPWUS-Core

*Proposal 3 The NW can configure the number of consecutive LP-WUS monitoring occasions the UE is allowed to miss before it needs to start the lpwus-PDCCH-MonitoringTimer.*

R2-2507105 Remaining issues of LP-WUS in RRC\_CONNECTED Apple discussion Rel-19

*Proposal 1: Capture the configuration restriction that the LP-WUS cycle is shorter than long DRX cycle for Option 1-2.*

R2-2507530 LP-WUS MAC Issues ZTE Corporation, Sanechips discussion Rel-19 NR\_LPWUS-Core

*Proposal 1(Eri-001): RAN2 Confirms that UE can always be reachable, whether it monitors LP-WUS or monitors PDCCH directly.*

R2-2506865 Discussion on MAC open issues CATT discussion Rel-19 NR\_LPWUS-Core

*Proposal 1: No enhancement is needed for handling on lpwus-PDCCH-MonitoringTimer in LP-WUS collision cases.*

On P6 in R2-2507104 (Proposal 6: Further discuss the necessity to explicitly describe “option1-1/1-2” based on 38.300 description. (based on contribution))

R2-2507105 Remaining issues of LP-WUS in RRC\_CONNECTED Apple discussion Rel-19

*Proposal 3: Capture the term of Option 1-1 and Option 1-2 in TS 38.300.*

R2-2507308 LP-WUS options description InterDigital discussion Rel-19 NR\_LPWUS-Core

*Proposal: The usage of LP-WUS Option 1-1 and Option 1-2 naming convention is not applied for TS 38.300 nor TS 38.321.*

*Chair: Other issues if any can be discussed if time allows.*

R2-2506865 Discussion on MAC open issues CATT discussion Rel-19 NR\_LPWUS-Core

R2-2506923 Remaining MAC open issues for LP-WUS Lenovo discussion Rel-19

R2-2506954 Discussion on LP-WUS MAC remaining issue NEC discussion Rel-19 NR\_LPWUS-Core

R2-2506981 Discussing on remaining MAC open issues Xiaomi discussion Rel-19 NR\_LPWUS-Core

R2-2507010 Discussion on MAC open issues for LP-WUS WUR vivo discussion Rel-19 NR\_LPWUS-Core

R2-2507042 Discussion on the remaining issue on LP-WUS in RRC\_CONNECTED OPPO discussion Rel-19 NR\_LPWUS-Core

R2-2507105 Remaining issues of LP-WUS in RRC\_CONNECTED Apple discussion Rel-19

R2-2507174 MAC open issues Nokia, Nokia Shanghai Bell discussion Rel-19 NR\_LPWUS-Core

R2-2507308 LP-WUS options description InterDigital discussion Rel-19 NR\_LPWUS-Core

R2-2507351 Remaining issues in LP-WUS MAC Qualcomm Incorporated discussion NR\_LPWUS-Core

R2-2507530 LP-WUS MAC Issues ZTE Corporation, Sanechips discussion Rel-19 NR\_LPWUS-Core

R2-2507627 LP-WUS MAC issue (Eri-001 and Proposal 1 in #213) Ericsson discussion Rel-19 NR\_LPWUS-Core

### 8.4.4 Other issues

Issues related to IDLE/INACTIVE, Changes to Stage 2, UE capabilities, and other remaining issues if not covered by the previous agenda items

Low mobility criterion related

R2-2507011 Discussion on other open issues for LP-WUS WUR vivo discussion Rel-19 NR\_LPWUS-Core

*Proposal 1: (38304-1) “low mobility” criterion based on LR measurements is not needed for LP-WUS.*

*Proposal 2: (38304-3) There is no specification impact for R16 low mobility criterion when UE exits fully offloading.*

R2-2507505 Open issues on LP-WUS InterDigital, Inc. discussion Rel-19 NR\_LPWUS-Core

*Proposal 1: [38304-1] Support to evaluate low mobility criterion with LR measurements.*

*Proposal 2: [38304-3] Do not consider the specification impact on low-mobility criteria when a UE exits measurement offloading.*

38.300

R2-2507639 Miscellaneous corrections for LP-WUS Ericsson CR Rel-19 38.300 19.0.0 1046 - F NR\_LPWUS-Core Revised

=> Revised in R2-2507640

R2-2507640 Miscellaneous corrections for LP-WUS Ericsson CR Rel-19 38.300 19.0.0 1046 1 F NR\_LPWUS-Core R2-2507639

37.340

R2-2507369 Open issue of LP-WUS in TS37.340 ZTE Corporation, Sanechips report Rel-19 NR\_LPWUS-Core

*Proposal 1: For MR-DC, UE can be configured to report MCG specific UE assistance information if the MN is a gNB and/or SCG specific UE assistance information if the SN is a gNB, if it has preferred time offset for PDCCH monitoring after LP-WUS monitoring.*

*Proposal 2: UE can report preferred time offset for PDCCH monitoring after LP-WUS monitoring for MCG and/or SCG independently for NR-DC.*

R2-2507370 Correction on LP-WUS in TS 37.340 ZTE Corporation, Sanechips, Xiaomi CR Rel-19 37.340 19.0.0 0424 - F NR\_LPWUS-Core

UE capability

R2-2507156 List of open issues for Rel-19 LP-WUS UE capabilities Huawei, HiSilicon (Rapporteur) discussion Rel-19

R2-2506965 [LPWUS-Cap-OI-1] Discussion on open issue for LP-WUS UE capabilities Huawei, HiSilicon discussion Rel-19 NR\_LPWUS-Core

*Proposal: The UE capabilities for LP-WUS operation in IDLE/INACTIVE should also be added outside the Rel-19 paging container in UE capability information message. Which contents to be added can be discussed:*

*Option 1: only indicating the supported band list for LP-WUS regardless of the receiver type and other capabilities;*

*Option 2: indicating the supported band list for LP-WUS and the receiver type.*

R2-2507531 LP-WUS Other Issues ZTE Corporation, Sanechips discussion Rel-19 NR\_LPWUS-Core

*Proposal 1 (LPWUS-Cap-OI-1): RAN2 confirms that gNB can decode Rel-19 paging container (i.e., UE-RadioPagingInfo-r19) although it is defined using OCTET STRING. No further enhancement is necessary for the LP-WUS capability report.*

R2-2507253 Correction to R19 LP-WUS UE Capabilities Huawei, HiSilicon draftCR Rel-19 38.306 19.0.0 NR\_LPWUS-Core

*Chair: Other issues if any can be discussed if time allows.*

R2-2506965 [LPWUS-Cap-OI-1] Discussion on open issue for LP-WUS UE capabilities Huawei, HiSilicon discussion Rel-19 NR\_LPWUS-Core

R2-2507011 Discussion on other open issues for LP-WUS WUR vivo discussion Rel-19 NR\_LPWUS-Core

R2-2507043 Discussion on the remaining issues on RRM measurement OPPO discussion Rel-19 NR\_LPWUS-Core

R2-2507083 Remaining issues on RRM relaxation and proposed TP to TS 38.304 Xiaomi Communications discussion

R2-2507253 Correction to R19 LP-WUS UE Capabilities Huawei, HiSilicon draftCR Rel-19 38.306 19.0.0 NR\_LPWUS-Core

R2-2507352 Paging monitoring in LP-WUS CONNECTED state Qualcomm Incorporated discussion NR\_LPWUS-Core

R2-2507505 Open issues on LP-WUS InterDigital, Inc. discussion Rel-19 NR\_LPWUS-Core

R2-2507531 LP-WUS Other Issues ZTE Corporation, Sanechips discussion Rel-19 NR\_LPWUS-Core

R2-2507618 Discussion on open issues in 38.304 for LP-WUS Nokia discussion Rel-19 NR\_LPWUS-Core

R2-2507628 LP-WUS critical issues (E008, 38304-1 and -3) Ericsson discussion Rel-19 NR\_LPWUS-Core Late

## 8.11 Evolution of NR duplex operation: Sub-band full duplex (SBFD)

(NR\_duplex\_evo-Core; leading WG: RAN1; REL-19; WID: RP-251874)

Time budget: 0 TU

Tdoc Limitation: 2 tdocs

### 8.11.1 Organizational

Incoming LS, Rapporteur input, etc..

LSin

R2-2506718 Reply LS on CSI-RS based CFRA using SBFD RO (R1-2506556; contact: ZTE) RAN1 LS in Rel-19 NR\_duplex\_evo-Core To:RAN2 Cc:RAN4

* ?? Noted

38.321

R2-2507158 Summary of Rel-19 SBFD MAC open issue discussions for maintenance Samsung discussion Rel-19 NR\_duplex\_evo-Core

*Proposed WF for MAC-1:*

*Following the majority view, no correction will be considered for MAC-1 in Rapp CR. Companies that deem further discussion necessary, can submit tdoc contribution for MAC-1.*

R2-2507080 Correction on MAC spec for R19 SBFD Samsung CR Rel-19 38.321 19.0.0 2126 - F NR\_duplex\_evo-Core

R2-2506820 Open issues in TS 38.300 on Rel-19 Evolution of NR duplex operation (SBFD) CATT discussion Rel-19 NR\_duplex\_evo-Core

=> Moved to 8.11.3

### 8.11.2 MAC issues

Remaing MAC issues

MAC-2: How to clarify "the preambleReceivedTargetPower used in Msg3 transmission power derivation is that configured for legacy RO, in the case that Msg3 is transmitted in non-SBFD symbols and SBFD RACH config option 2 is configured."

R2-2507255 Discussion on the remaining MAC open issues Samsung discussion Rel-19 NR\_duplex\_evo-Core

*[MAC-2] Proposal 1: RAN2 to prioritize Options 3 and 4, over Options 1 and 2, to minimize the risk of further mis-interpretation, where*

*- Option 1: "indicate the preambleReceivedTargetPower included in the rach-ConfigCommon or the rach-ConfigCommon-r17".*

*- Option 2: "indicate the preambleReceivedTargetPower included in the rach-ConfigCommon".*

*- Option 3: "indicate the preambleReceivedTargetPower not included in the sbfd-RACH-DualConfig".*

*- Option 4: "indicate the preambleReceivedTargetPower configured for the first PRACH occasions".*

R2-2506822 Remaining Issues on Random Access CATT discussion Rel-19

*[MAC-2] Proposal 1: Positive statement is slightly preferred, that is to clarify that for RACH configuration option 2, if Msg3 PUSCH transmission is performed in non-SBFD symbols, preambleReceivedTargetPower included in rach-ConfigCommon can be used.*

R2-2507280 Remaining MAC issues on SBFD LG Electronics Inc. discussion Rel-19 NR\_duplex\_evo-Core

*Proposal 1. [MAC-2] Use the format of ‘not in yyy’ to specify that preambleReceivedTargetPower configured for non-SBFD RO is used if Msg3 PUSCH is transmitted in non-SBFD symbols*

R2-2507264 Remaining issue of SBFD Qualcomm Incorporated discussion NR\_duplex\_evo-Core

*Proposal 1: For the case that Msg3 is transmitted in non-SBFD symbols and SBFD RACH config option 2 is configured, it is to clarify the preambleReceivedTargetPower used is the one included in the RACH-ConfigCommon.*

MAC-3: Whether, and (if support) how, to support the compensation for the difference in preamble received target power between SBFD RO and legacy RO (in addition to the compensation for the power ramping difference that is already supported), for ensuring preamble transmit power continuity, during RO type switching.

R2-2507517 Discussion on SBFD MAC open issues Xiaomi discussion Rel-19 NR\_duplex\_evo-Core

*Proposal 2: [MAC-3] During RO type switching, there is no need to compensate the difference in preamble received target power between SBFD RO and legacy RO. No specification change is needed.*

R2-2507266 MAC Issues - SBFD Nokia discussion Rel-19 NR\_duplex\_evo-Core

*Proposal 1: To support the compensation for the difference in preamble received target power between SBFD RO and legacy RO (in addition to the compensation for the power ramping difference that is already supported), for ensuring preamble transmit power continuity, during RO type switching.*

*Chair: Other issues if any can be discussed if time allows.*

R2-2506822 Remaining Issues on Random Access CATT discussion Rel-19

R2-2506971 Discussion on MAC-2 and MAC-3 for SBFD ZTE Corporation discussion Rel-19 NR\_duplex\_evo-Core

R2-2507003 Discussion on residual issues for MAC spec Huawei, HiSilicon discussion Rel-19 NR\_duplex\_evo-Core

R2-2507255 Discussion on the remaining MAC open issues Samsung discussion Rel-19 NR\_duplex\_evo-Core

R2-2507264 Remaining issue of SBFD Qualcomm Incorporated discussion NR\_duplex\_evo-Core

R2-2507266 MAC Issues - SBFD Nokia discussion Rel-19 NR\_duplex\_evo-Core

R2-2507280 Remaining MAC issues on SBFD LG Electronics Inc. discussion Rel-19 NR\_duplex\_evo-Core

R2-2507363 MAC remaining issues Ericsson discussion Rel-19 NR\_duplex\_evo-Core

R2-2507517 Discussion on SBFD MAC open issues Xiaomi discussion Rel-19 NR\_duplex\_evo-Core

R2-2507576 Discussion on UE transmit power continuity during RO type switching vivo discussion Rel-19 NR\_duplex\_evo-Core

### 8.11.3 Other aspects

Issues related to RILs, other remaing RRC issues, Changes to Stage 2, UE capabilities, and other remaining issues if not covered by the previous agedam items

38.331

R2-2507000 WI SBFD ASN.1 Review file Huawei, HiSilicon (Rapporteur) discussion Rel-19 NR\_duplex\_evo-Core

R2-2507001 WI SBFD ASN.1 Comments file Huawei, HiSilicon (Rapporteur) discussion Rel-19 NR\_duplex\_evo-Core

R2-2506999 Corrections to WI SBFD Huawei, HiSilicon (Rapporteur) CR Rel-19 38.331 19.0.0 5499 - F NR\_duplex\_evo-Core

C100, C104, L701

R2-2506972 Discussion on RIL [C100][C104][L701] ZTE Corporation discussion Rel-19 NR\_duplex\_evo-Core

*Proposal 1: For RIL C100, in BeamfailureRecoveryConfig, support to add ‘or of the fallback CBRA’ in the field description of ra-OccasionType, instead of deleting ‘of CFRA’.*

*Proposal 2: For RIL C104, move the ra-OccasionType-r19 to be under CFRA field in RACH-ConfigDedicated, and to add ‘or of the fallback CBRA’ in the field description.*

*Proposal 3: For RIL L701, there is no need to restrict that rach-ConfigCommon and sbfd-RACH-DualConfig with same FeatureCombination should be provided in the same additionalRACH-Config.*

R2-2507281 [L701][C100][C104] RIL issues on SBFD LG Electronics Inc. discussion Rel-19 NR\_duplex\_evo-Core

*Proposal 1. [L701] Configure rach-ConfigCommon and sbfd-RACH-DualConfig in the same additionalRACH-Config IE, if the both rach-ConfigCommon and sbfd-RACH-DualConfig are configured for a specific FeatureCombination.*

*Proposal 3. [C100][C104] Clarify that ra-OccasionType in BeamFailureRecoveryConfig and RACH-ConfigDedicated IE indicates the second PRACH occasions for CFRA or for fallback case from CFRA to CBRA to be used by a SBFD aware UE.*

38.300

R2-2506820 Open issues in TS 38.300 on Rel-19 Evolution of NR duplex operation (SBFD) CATT discussion Rel-19 NR\_duplex\_evo-Core

R2-2506823 Introduction of Rel-19 Evolution of NR duplex operation (SBFD) CATT CR Rel-19 38.300 18.6.0 1008 2 F NR\_duplex\_evo-Core R2-2506604

R2-2507002 Discussion on issues for Stage-2 spec Huawei, HiSilicon discussion Rel-19 NR\_duplex\_evo-Core

R2-2507364 Remaining issue for Stage 2 spec Ericsson discussion Rel-19 NR\_duplex\_evo-Core

R2-2507508 SBFD with CA for stage-2 spec InterDigital, Inc. discussion Rel-19 NR\_duplex\_evo-Core

*Chair: Other issues if any can be discussed if time allows.*

R2-2506972 Discussion on RIL [C100][C104][L701] ZTE Corporation discussion Rel-19 NR\_duplex\_evo-Core

R2-2507002 Discussion on issues for Stage-2 spec Huawei, HiSilicon discussion Rel-19 NR\_duplex\_evo-Core

R2-2507267 Other Aspects of SBFD Nokia discussion Rel-19 NR\_duplex\_evo-Core

R2-2507281 [L701][C100][C104] RIL issues on SBFD LG Electronics Inc. discussion Rel-19 NR\_duplex\_evo-Core

R2-2507364 Remaining issue for Stage 2 spec Ericsson discussion Rel-19 NR\_duplex\_evo-Core

R2-2507507 RRC issues on SBFD InterDigital, Inc. discussion Rel-19 NR\_duplex\_evo-Core

R2-2507508 SBFD with CA for stage-2 spec InterDigital, Inc. discussion Rel-19 NR\_duplex\_evo-Core

R2-2507518 Discussion on SBFD RRC open issues Xiaomi discussion Rel-19 NR\_duplex\_evo-Core

R2-2507577 Discussion on RRC Remaining issues for SBFD vivo discussion Rel-19 NR\_duplex\_evo-Core

## 8.12 NR MIMO Phase 5

(NR\_MIMO\_Ph5-Core; leading WG: RAN1; REL-19; WID: [RP-242394](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_105/Docs/RP-242394.zip))

Time budget: 0 TU

Tdoc Limitation: 2 tdocs

### 8.12.1 Organizational

LSs and rapporteur input, etc.

R2-2506738 LS on event triggered L1-RSRP reporting if eventDetectionTimeWindowLength-r19 is configured (R4-2512232; contact: Qualcomm) RAN4 LS in Rel-19 NR\_MIMO\_Ph5-Core To:RAN1 Cc:RAN2

* ?? Noted

38.321

R2-2507497 Report of Rel-19 MIMO MAC open issues for maintenance Samsung discussion Rel-19 NR\_MIMO\_Ph5-Core

*Contribution only if there are further comments or strong concerns:*

*Proposal 3: During FR2 UL gap, the UE performs PUCCH transmission for UE Initiated Report Indication (for both mode-A and mode-B) and transmission of CG Type 1 for mode-B UE-initiated CSI reporting. Consider the proposed TP as baseline.*

*Proposal 4: To determine DRX Active Time at symbol n, UE considers UE Initiated Report Indication sent for mode-A UE-initiated CSI reporting until 4 ms prior to symbol n when evaluating all DRX Active Time conditions. Adopted the proposed TP.*

*Proposal 6: The existing Aperiodic CSI Trigger State Subselection MAC CE is used for CSI trigger state subselection for UEI-CSI reporting. Adopted the proposed TP.*

*Proposal 7: for UEI reporting, MAC does not consider overlapping handling for 1) mode-A/B PUCCH resource overlapping with other resources and 2) mode-B PUSCH resource overlapping with other resources. No MAC impact.*

38.331

R2-2507593 Review file for MIMO ASN.1 review Ericsson discussion Late

R2-2507594 Comment file for MIMO ASN.1 review Ericsson discussion Late

R2-2507592 Corrections for MIMO Phase 5 Ericsson CR Rel-19 38.331 19.0.0 5548 - F NR\_MIMO\_Ph5-Core Late

### 8.12.2 MAC issues

Remaining MAC issues

UE behavior for the different caes, a) the TAT for mode-B PUSCH is expired while the TAT for PUCCH is running, and b) if the TAT for mode-B PUCCH is expired while the TAT for PUSCH is running, clears the CG for UEI

R2-2506847 Discussion on remaining MAC issue China Telecom discussion NR\_MIMO\_Ph5-Core

*Proposal 1[Issue-1]: Prefer Option-1, i.e., release the associated PUCCH. And it is OK with both TPs.*

R2-2507021 Discussion on MAC open issues for UEI BMR vivo discussion Rel-19 NR\_MIMO\_Ph5-Core

*Proposal 1 Upon STAG TAT expiry associated with a SCell configured with a UEI report configuration with Mode B, if the PUCCH resource of the UEI report configuration is configured on a PCell or PUCCH-SCell of a different TAG with a running TAT, the UE:*

*Option 2a: does not release the PUCCH resource. If a UEI beam report is triggered for the SCell, the UE transmits the PUCCH and does not transmit the PUSCH for the UEI beam report.*

*Option 2b: does not release the PUCCH resource. If a UEI beam report is triggered for the SCell, the UE does not transmit the PUCCH for the UEI beam report.*

R2-2507199 Remaining MAC issues in MIMO Ofinno discussion Rel-19 NR\_MIMO\_Ph5-Core

*Proposal 1 For mode-B UEI reporting, PUCCH and Type1 CG PUSCH can be associated with different TAGs. If the TAT (associated with a sTAG) for Type1 CG PUSCH is expired while the TAT for PUCCH is running, RAN2 to discuss and down-select one of the following options:*

*Option 1: UE releases the PUCCH. (Adopt the TP in the Appendix 1).*

*Option 2: UE does not release the PUCCH and not transmit the UEIRI on the PUCCH. (Adopt the TP in the Appendix 2).*

*Proposal 2 For mode-B UEI reporting, PUCCH and Type1 CG PUSCH can be associated with different TAGs. If the TAT (associated with a sTAG) for PUCCH is expired while the TAT for Type1 CG PUSCH is running, the UE clears the Type1 CG PUSCH. (Adopt the TP in the Appendix 3).*

UEIRI on PUCCH if the BWP configured with mode-B PUSCH is deactivated

R2-2507154 [Issue-2] Discussion on MAC remaining issue for MIMO SHARP Corporation discussion NR\_MIMO\_Ph5-Core

*Proposal 1: UE does not transmit a PUCCH for beam measurement report notification in Mode B if the UL BWP for the associated PUSCH is deactivated.*

R2-2507600 Consideration on the Remaining MAC Issues of UEIBM ZTE Corporation discussion Rel-19 NR\_MIMO\_Ph5-Core

*Proposal 2: If the BWP carrying the Mode-B CG PUSCH is deactivated, the UE shall not transmit the UEI Report Indication on PUCCH. RAN2 is to confirm whether this should be specified as a defined behavior or left to network implementation to avoid.*

TAT expired for any TCI state of multi-panel SDM for sDCImTRP 2TA

R2-2506941 Discussion on remaining MAC issues CATT discussion Rel-19 NR\_MIMO\_Ph5-Core

*Proposal 3 [Issue-5]: If UE is configured with sDCI mTRP two TA and UL multi-panel transmission with SDM mode, UE clears the CG resource if at least one TCI state indicated by the DCI for the CG resource is associated with the expired TAT.*

R2-2507199 Remaining MAC issues in MIMO Ofinno discussion Rel-19 NR\_MIMO\_Ph5-Core

*Proposal 4 When a serving cell is configured with multipanelSchemeSDM and with two TAGs, to avoid unsuccessfully decoding due to only partial PUSCH transmission/MIMO layer/TRP has valid TA, RAN2 to discuss and down-select one of the following options:*

*• Option 1: UE clears any CG/PUSCH for SP-CSI if any of the two activated TCI states for the CG/PUSCH for SP-CSI is associated with a TAG of an expired TAT. (Adopt the TP in the Appendix 5).*

*• Option 2: UE does not transmit any CG/PUSCH for SP-CSI if any of the two activated TCI states for the CG/PUSCH for SP-CSI is associated with a TAG of an expired TAT. (Adopt the TP in the Appendix 6).*

R2-2507498 MAC open issues Samsung discussion Rel-19 NR\_MIMO\_Ph5-Core

*Proposal 3: For multipanelSchemeSDM, UE clear the CG/PUSCH for SP-CSI if all of the activated TCI state(s) for the CG/PUSCH for SP-CSI is associated with the TAG(s) of the expired TAT(s). This is aligned with legacy behaviour; no change is needed for this.*

*Proposal 4: For multi-panel SDM scheme, NW should ensure to indicate in DCI both two TCI states with running TAT(s) for multipanelSchemeSDM, so that UE can use the indicated TCI states to transmits all MIMO layers of the TB. Discuss whether to specify that “UE does not transmit any uplink transmission via multi-panel SDM scheme if any TCI state to be applied for the multi-panel SDM transmission is associated to a TAG for which the TAT is expired.”*

DRX active time for mode-A UEI reporting

R2-2507498 MAC open issues Samsung discussion Rel-19 NR\_MIMO\_Ph5-Core

*Proposal 4 [Issue-10]: For mode-A UEIBR, keep the current wording in the MAC spec that UE considers the DRX as active time while a PDCCH scheduling a mode-A UE-initiated CSI report on PUSCH has not been received after transmitting UE Initiated Report Indication on PUCCH.*

R2-2507265 MAC Open issues Nokia discussion Rel-19 NR\_MIMO\_Ph5-Core

*Proposal 2: If a PDCCH scheduling a mode-A UEI CSI report is not received after transmission of UEIRI, UE stays in the active state until the next PUCCH ressource for transmitting UE Initiated Report Indication. No MAC spec change.*

R2-2507209 Remaining issues on UEI beam reporting LG Electronics Inc. discussion Rel-19 NR\_MIMO\_Ph5-Core

*Proposal 3. For Mode-A, RAN2 introduce a new timer to handle Active time based on UEI reporting.*

*Proposal 4. For Mode-A, the new timer is started upon UEIRI transmission and is stopped upon expiry of the timer.*

*Chair: Other issues if any can be discussed if time allows.*

R2-2506847 Discussion on remaining MAC issue China Telecom discussion NR\_MIMO\_Ph5-Core

R2-2506906 Discuss on MIMO MAC issues CMCC discussion Rel-19 NR\_MIMO\_Ph5-Core Withdrawn

R2-2506941 Discussion on remaining MAC issues CATT discussion Rel-19 NR\_MIMO\_Ph5-Core

R2-2507021 Discussion on MAC open issues for UEI BMR vivo discussion Rel-19 NR\_MIMO\_Ph5-Core

R2-2507154 [Issue-2] Discussion on MAC remaining issue for MIMO SHARP Corporation discussion NR\_MIMO\_Ph5-Core

R2-2507199 Remaining MAC issues in MIMO Ofinno discussion Rel-19 NR\_MIMO\_Ph5-Core

R2-2507209 Remaining issues on UEI beam reporting LG Electronics Inc. discussion Rel-19 NR\_MIMO\_Ph5-Core

R2-2507265 MAC Open issues Nokia discussion Rel-19 NR\_MIMO\_Ph5-Core

R2-2507377 MAC issues for MIMO Huawei, HiSilicon discussion Rel-19 NR\_MIMO\_Ph5-Core

R2-2507498 MAC open issues Samsung discussion Rel-19 NR\_MIMO\_Ph5-Core

R2-2507539 Discussion on MIMO MAC open issues ASUSTeK, Ofinno, Ericsson discussion Rel-19 38.321 NR\_MIMO\_Ph5-Core

R2-2507600 Consideration on the Remaining MAC Issues of UEIBM ZTE Corporation discussion Rel-19 NR\_MIMO\_Ph5-Core

### 8.12.3Others

Issues related to RILs, other remaining RRC issues, Changes to Stage 2, and other issues if not covered by the previous agenda items

Coexistence of UL-only TRP and (C)-LTM (H403)

R2-2507376 RRC issues for MIMO Huawei, HiSilicon discussion Rel-19 NR\_MIMO\_Ph5-Core Late

*Proposal 4: Confirm that, when the TA is already acquired, it is possible to perform an initial (RACH-less) uplink transmission to a cell configured with intra-cell asymmetric DL sTRP/UL mTRP using a pre-stored PL offset for the TCI state used.*

*Proposal 5: Leave it to the mobility enhancement session (whether) to specify the necessary signalling.*

R2-2506852 Clarification on the coexistence between LTM or CLTM and UL-only TRP OPPO discussion Rel-19 NR\_MIMO\_Ph5-Core

*LTM*

*Proposal 1: For both Rel-18 LTM and Rel-19 LTM, the configuration (including pathloss offset) of the asymmetric DL sTRP/UL mTRP can be included in the LTM candidate configuration, without adding the pathloss offset in (enhanced) LTM Cell Switch Command MAC CE.*

*Proposal 2: The UL-only TRP is not used for the early RACH procedure of LTM. No extra specification change is needed.*

*C-LTM*

*Proposal 3: The gNB by implementation can include the configuration (including pathloss offset) of the asymmetric DL sTRP/UL mTRP in the candidate configuration of C-LTM. No extra specification change is needed.*

*Proposal 4: The UL-only TRP is not used for the early RACH procedure for C-LTM. No extra specification change is needed.*

R2-2507605 [Z408][K103][H400][H403][Z409]RIL Issues for MIMO ZTE Corporation discussion Rel-19 NR\_MIMO\_Ph5-Core

*Proposal 2: No need to include the PL offset in the LTM Cell Switch Command.*

*Proposal 3: RAN2 should first clarify the usage scenario for configuring the PL offset for the candidate cell, and subsequently determine whether and how to include it.*

R2-2507499 RIL S001 H403 Samsung discussion Rel-19 NR\_MIMO\_Ph5-Core

*Proposal 2: Not pursue H403, i.e., pathloss offset is not supported for LTM candidate TCI states.*

On servCellIndex for mode-B CG (Z408, K103, H400)

R2-2507376 RRC issues for MIMO Huawei, HiSilicon discussion Rel-19 NR\_MIMO\_Ph5-Core Late

*Proposal 2: Remove servCellIndex-r19 in modeB-r19 in CSI-ReportUE-IBR-r19.*

R2-2507565 Discussion on remaining RRC issue China Telecom discussion

*Proposal 1: servCellIndex-r19 in CSI-ReportConfig -> reportTransmissionMode-r19 -> pusch-ResourceOfModeB-19 can be optional field.*

R2-2507540 Discussion on RIL [K103] ASUSTeK discussion Rel-19 38.331 NR\_MIMO\_Ph5-Core

*Proposal 1: (RIL-K103) Use a single parameter ConfiguredGrantConfigIndexMAC to indicate Type-1 CG PUSCH resource for the PUSCH transmission in mode-B UE-initiated beam reporting.*

S001

R2-2507499 RIL S001 H403 Samsung discussion Rel-19 NR\_MIMO\_Ph5-Core

*Proposal 1: For S001, add in field description that cri-TypeI-SinglePanelRI-Restriction-r19 and cri-TypeI-SinglePanelN1-N2-CBSR-r19 are optionally present if codebookType is set to typeI-SinglePanel, cri-TypeII-RI-Restriction-r19 and cri-TypeII-N1-N2-CBSR-r19 are optionally present if codebookType is set to typeII-r16. They are not configured together with codebookType in codebookConfig-r19.*

Z409

R2-2507605 [Z408][K103][H400][H403][Z409]RIL Issues for MIMO ZTE Corporation discussion Rel-19 NR\_MIMO\_Ph5-Core

*Proposal 4: Send an LS to RAN1 to confirm whether there is a need to define additionalOneSlotOffsetDoppler-r19 as a list.*

N122, C252, C253

R2-2507549 Stage 2 and RRC aspects Nokia discussion Rel-19 NR\_MIMO\_Ph5-Core Late

*Proposal 3: [N122] Generalize and use the same field description for pathlossOffset under TCI-State and TCI-UL-State IEs, clarifying that the field applies to TCI states of UL-only TRPs; use existing conditional presence tag “JointTCI” in TCI-State IE to distinguish the joint TCI state case.*

H401

R2-2507376 RRC issues for MIMO Huawei, HiSilicon discussion Rel-19 NR\_MIMO\_Ph5-Core Late

*Proposal 3: Ask RAN1:*

*- whether RAN1 will capture the UE behaviour for the case where a report is triggered while there are no resources for UEIRI transmission or mode-B transmission in the active BWP;*

*- whether there is a particular reason why the resources for UEIRI transmission and for mode-B transmission on PUSCH are in a single BWP (unlike Rel-15 CSI reporting on PUCCH), which could make the above scenario difficult to avoid.*

Stage 2

R2-2507549 Stage 2 and RRC aspects Nokia discussion Rel-19 NR\_MIMO\_Ph5-Core Late

*Proposal 1: Clarify the asymmetric TRP scenario in TS 38.300 according to the text proposal in Annex A.*

*Chair: Other issues if any can be discussed if time allows.*

R2-2506852 Clarification on the coexistence between LTM or CLTM and UL-only TRP OPPO discussion Rel-19 NR\_MIMO\_Ph5-Core

R2-2507376 RRC issues for MIMO Huawei, HiSilicon discussion Rel-19 NR\_MIMO\_Ph5-Core Late

R2-2507499 RIL S001 H403 Samsung discussion Rel-19 NR\_MIMO\_Ph5-Core

R2-2507540 Discussion on RIL [K103] ASUSTeK discussion Rel-19 38.331 NR\_MIMO\_Ph5-Core

R2-2507549 Stage 2 and RRC aspects Nokia discussion Rel-19 NR\_MIMO\_Ph5-Core Late

R2-2507565 Discussion on remaining RRC issue China Telecom discussion

R2-2507605 [Z408][K103][H400][H403][Z409]RIL Issues for MIMO ZTE Corporation discussion Rel-19 NR\_MIMO\_Ph5-Core

R2-2507657 [K103][H402] Discussion on RIL related issues CATT discussion Rel-19 NR\_MIMO\_Ph5-Core

## 8.20 NR Others

Tdoc limit: 2

Specific items may be allocated to a breakout session for treatment.

Impacts from Other RAN WGs and TSGs that has no separate TU budget in RAN2. LS ins for Rel-19 specific WIs/SIs that has no RAN WI.

Additional tdocs on top of limit can be allowed for co-sourced contribution with 3 or more companies

### 8.20.1 RAN4

RRC Signaling for power domain enhancement

R2-2506730 LS on RRC signalling for power domain enhancement (R4-2511759; contact: Huawei) RAN4 LS in Rel-19 NR\_ENDC\_RF\_Ph4-Core To:RAN2

CSSF enhancement

R2-2506736 Reply LS on CSSF optimization for NR RRM Phase 5 (R4-2512161; contact: Apple) RAN4 LS in Rel-19 NR\_RRM\_Ph5-Core To:RAN2

Rx BSF optimization

R2-2506739 LS on Rx BSF optimization for NR RRM Phase 5 (R4-2512333; contact: CICT RAN4 LS in Rel-19 NR\_RRM\_Ph5-Core To:RAN2

R2-2506788 Report of [Post131][225][NR\_Others] On Rx BSF optimization (CATT) CATT discussion Rel-19 NR\_RRM\_Ph5-Core

R2-2506789 Introduction of Rx BSF optimization for NR RRM Ph5 CATT draftCR Rel-19 38.331 18.6.0 B NR\_RRM\_Ph5-Core

R2-2507613 Fast Beam Sweeping Factor Nokia discussion Rel-19 NR\_RRM\_Ph5-Core Late

UE capability for 6Rx UE

R2-2506735 LS on Release Independence of 6Rx (R4-2511898; contact: T-Mobile) RAN4 LS in Rel-19 NR\_ENDC\_RF\_Ph4-Core To:RAN2 Cc:RAN1

R2-2506987 [DRAFT] Reply LS on Release Independence of 6Rx Qualcomm Incorporated, T-Mobile LS out Rel-19 NR\_ENDC\_RF\_Ph4-Core To:RAN4 Cc:RAN1

R2-2507171 Discussion on release independent of 6Rx vivo discussion Rel-19

UE capability for Low band CA

R2-2506733 LS on capability of NR\_LBCA\_Sw (R4-2511863; contact: Huawei) RAN4 LS in Rel-19 NR\_LBCA\_Sw To:RAN2

R2-2506947 Discussion on UE capability of low band CA via switching Huawei, HiSilicon discussion Rel-19 NR\_LBCA\_Sw

R2-2507124 UE capability for LBCA via switching Apple discussion Rel-19 NR\_LBCA\_Sw

R2-2507601 Consideration on the LBCA Capability Signaling ZTE Corporation discussion Rel-19 NR\_LBCA\_Sw

R2-2507603 Backwards compatibility for low NR band carrier aggregation switching Ericsson discussion

On capability for intra-band non-collocated EN-DC/NR-CA deployment

R2-2507606 Consideration on the Type 2 and Type 4 UE Capability Reporting ZTE Corporation discussion Rel-19 NonCol\_intraB\_ENDC\_NR\_CA\_Ph2-Core

*Chair: the other documents will be handled in other sessions.*

R2-2506742 LS on UE Capability for Rel.19 Ku band VSAT (R4-2512658; contact: Chunghwa Telecom, Sharp) RAN4 LS in Rel-19 NR\_NTN\_Ku\_bands To:RAN2

R2-2506933 Introduction of Ku band Huawei, HiSilicon CR Rel-19 38.331 19.0.0 5492 - B NR\_NTN\_Ku\_bands

R2-2506934 Introduction of Ku band Huawei, HiSilicon CR Rel-19 38.306 19.0.0 1356 - B NR\_NTN\_Ku\_bands

R2-2507193 UE Capability for Rel-19 Ku Band VSAT (R4 60-1/60-2) Sharp, CHTTL, SES discussion Rel-19 NR\_NTN\_Ku\_bands

R2-2507194 Draft 38.306 CR for Rel-19 NTN Ku Band Sharp, CHTTL, SES draftCR Rel-19 38.306 19.0.0 NR\_NTN\_Ku\_bands

R2-2507195 Draft 38.331 UE capability CR for Rel-19 NTN Ku Band Sharp, CHTTL, SES draftCR Rel-19 38.331 19.0.0 NR\_NTN\_Ku\_bands

R2-2507383 The introduction of NTN VSAT FR1 capabilities in 38.306 Nokia, Nokia Shanghai Bell draftCR Rel-19 38.306 19.0.0 NR\_NTN\_Ku\_bands

R2-2507384 The introduction of NTN VSAT FR1 capabilities in 38.331 Nokia, Nokia Shanghai Bell draftCR Rel-19 38.331 19.0.0 NR\_NTN\_Ku\_bands

### 8.20.2 Other WGs

MINT related

R2-2506707 LS on Broadcasting Information on Disaster Condition of a PLMN from E-UTRAN in Case of Disaster Condition (C1-255678; contact LGE) CT1 LS in Rel-19 MINT\_Ph2 To:RAN2 Cc:SA2

R2-2507567 Introduction of MINT in EPS LG Electronics Inc., Nokia discussion Rel-19 MINT\_Ph2

R2-2507568 CR to 36.331 Introduction of MINT in EPS LG Electronics Inc., Nokia CR Rel-19 36.331 19.0.0 5171 - B MINT\_Ph2

R2-2507569 CR to 36.304 Introduction of MINT in EPS LG Electronics Inc. CR Rel-19 36.331 19.0.0 5172 - B MINT\_Ph2 Withdrawn

R2-2507570 CR to 36.304 Introduction of MINT in EPS LG Electronics Inc., Nokia CR Rel-19 36.304 19.0.0 0886 - B MINT\_Ph2

R2-2507571 CR to 36.306 Introduction of MINT in EPS LG Electronics Inc., Nokia CR Rel-19 36.306 19.0.0 1932 - B MINT\_Ph2

R2-2507572 CR to 36.300 Introduction of MINT in EPS LG Electronics Inc., Nokia CR Rel-19 36.300 19.0.0 1437 - B MINT\_Ph2

R2-2506826 Support for MINT in EPS (MINT\_Ph2) Google discussion Rel-19 R2-2506190

R2-2506827 Introduction of MINT in EPS Google CR Rel-19 36.331 18.6.0 5155 1 B TEI19 R2-2506192

R2-2506829 Introduction of MINT in EPS Google CR Rel-19 36.306 18.5.0 1924 1 B TEI19 R2-2506193

R2-2506830 Introduction of MINT in EPS Google CR Rel-19 36.300 18.5.0 1431 1 B TEI19 R2-2506194

R2-2507175 Impacts of MINT-EPS feature on RAN2 specifications Lenovo discussion Rel-19 MINT\_Ph2

On RAT restriction

R2-2506705 Reply LS on UE usage of the RAT restrictions (C1-255319; contact: Apple) CT1 LS in Rel-19 ECRATU To:RAN2 Cc:CT4, RAN

Moved from 8.19.2

R2-2507100 Restriction on RAT utilization Apple, OPPO, InterDigital, Huawei, HiSilicon, Nokia, Samsung, Ericsson draftCR Rel-19 25.304 18.0.0 B ECRATU

On suspension of trace production

R2-2506756 LS on temporary suspension of trace production (S5-253909; contact: Ericsson) SA5 LS in Rel-19 TraceQoE\_OAM To:RAN3, RAN2

R2-2507394 Discussion on LS temporary suspension of trace production L.M. Ericsson Limited LS out Rel-19 To:SA5 Cc:RAN3

Other topics with LSin

R2-2506749 Reply LS on energy saving indication from CN to RAN (S2-2507784; contact: LGE) SA2 LS in Rel-19 EnergySys To:RAN3 Cc:RAN2

R2-2506758 Reply to RAN2 LS on Number of UEs in RRC\_INACTIVE state with data transmission (S5-254084; contact: China Telecom) SA5 LS in Rel-19 PM\_KPI\_5G\_Ph4 To:RAN2 Cc:RAN3

*Chair: the other documents will be handled in other sessions.*

R2-2506706 Reply LS to SA4 on the RAN simulation assumptions for ULBC (C1-255650; contact: Qualcomm) CT1 LS in Rel-19 FS\_ULBC To:SA4 Cc:SA2, SA1, RAN1, RAN2, RAN4

R2-2506716 Reply LS on the RAN simulation assumptions for ULBC (R1-2506541; contact: Qualcomm) RAN1 LS in Rel-19 FS\_ULBC To:SA4 Cc:RAN4, RAN2, SA2, CT1

R2-2506732 Response LS on the RAN simulation assumptions for ULBC (R4-2511782; contact: Xiaomi) RAN4 LS in Rel-20 FS\_ULBC To:SA4 Cc:RAN2, RAN1, SA2

R2-2506746 Reply LS on the RAN simulation assumptions for ULBC (S2-2507578; contact: Qualcomm) SA2 LS in Rel-20 FS\_ULBC To:SA4 Cc:RAN1, RAN2, RAN4, SA1, CT1

R2-2506754 LS on bundling period and SPS for ULBC (S4aA250258; contact: Qualcomm) SA4 LS in Rel-20 FS\_ULBC To:RAN2 Cc:RAN1

## List of post meeting email discussions

*Template (will be deleted in the final report)*

* [AT131bis][20x][MIMOevo/LPWUS/SBFD/MIMO\_Ph5/NR\_Others] xxxxx (xxxx)

Scope: xxx

Intended outcome: Summary/Proposals in R2-25xxxxx for xxxx.

Deadline: xxx

* [Post131bis][20x][MIMOevo/LPWUS/SBFD/MIMO\_Ph5/NR\_Others] xxxxx (xxxx)

Scope: xxx

Intended outcome: Summary/Proposals for xxxx

Deadline: xxx