3GPP TSG-RAN WG2 Meeting #126 R2-2405701
Fukuoka, Japan, May 20 – 24, 2024

Agenda Item: 9.1

Source: Vice Chairman (Samsung)

Title: Report from session on V2X/SL, R19 NES and MOB

Document for: Approval

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

## List and Status of Offline/Email Discussions

## Approved outgoing LSs

## 4.3 V2X and Sidelink corrections Rel-15 and earlier

REL-15 and Earlier WIs related to V2x and Sidelink are in scope but not listed explicitly (long list).

This Agenda Item is treated in the V2X and Sidelink Breakout session

Tdoc Limitation: 1 tdocs

R2-2405433 Correction on transmission of SidelinkUEInformation Philips International B.V. CR Rel-13 36.331 13.17.0 5028 - F LTE\_eD2D\_Prox-Core

R2-2405434 Correction on transmission of SidelinkUEInformation Philips International B.V. CR Rel-14 36.331 14.16.0 5029 - A LTE\_eD2D\_Prox-Core

R2-2405435 Correction on transmission of SidelinkUEInformation Philips International B.V. CR Rel-15 36.331 15.21.0 5030 - A LTE\_eD2D\_Prox-Core

R2-2405436 Correction on transmission of SidelinkUEInformation Philips International B.V. CR Rel-16 36.331 16.15.0 5031 - A LTE\_eD2D\_Prox-Core

R2-2405437 Correction on transmission of SidelinkUEInformation Philips International B.V. CR Rel-17 36.331 17.8.0 5032 - A LTE\_eD2D\_Prox-Core

R2-2405438 Correction on transmission of SidelinkUEInformation Philips International B.V. CR Rel-18 36.331 18.1.0 5033 - A LTE\_eD2D\_Prox-Core

## 5.2 NR V2X

(5G\_V2X\_NRSL-Core; leading WG: RAN1; REL-16; started: Mar 19; target; Aug 20; WID: [RP-200129](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_87e/Docs/RP-200129.zip)).

CR rapporteurs will take care of miscellaneous CRs to collect small changes. Please contact / coordinate with CR rapporteur company first for small changes (e.g. non-controversial clarification/correction, editorial correction, etc.).

Tdoc Limitation: 1 tdocs

R2-2404491 Correction to RRC for SL configured grant Ericsson CR Rel-16 38.331 16.16.0 4782 - F 5G\_V2X\_NRSL-Core

R2-2404492 Correction to RRC for SL configured grant Ericsson CR Rel-17 38.331 17.8.0 4783 - A 5G\_V2X\_NRSL-Core

R2-2404493 Correction to RRC for SL configured grant Ericsson CR Rel-18 38.331 18.1.0 4784 - A 5G\_V2X\_NRSL-Core

R2-2405346 Corrections for SL RLC mode indication ZTE, Sanechips CR Rel-16 38.331 16.16.0 4825 - F 5G\_V2X\_NRSL-Core

R2-2405347 Corrections for SL RLC mode indication ZTE, Sanechips CR Rel-17 38.331 17.8.0 4826 - A 5G\_V2X\_NRSL-Core

R2-2405348 Corrections for SL RLC mode indication ZTE, Sanechips CR Rel-18 38.331 18.1.0 4827 - A 5G\_V2X\_NRSL-Core

## 6.6 NR Sidelink enhancements

(NR\_SL\_enh-Core; leading WG: RAN1; REL-17; WID: [RP-202846](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_90e/Docs/RP-202846.zip))

Tdoc Limitation: 1 tdoc

Note for RRC and MAC CRs, CR rapporteur’s summary and suggestion may be provided. CR rapporteurs will take care of miscellaneous CRs to collect small changes. Please contact / coordinate with CR rapporteur company first for small changes (e.g. non-controversial clarification/correction, editorial correction, etc.). This AI also includes in-principle agreed CRs (in-principle agreed CRs are not counted in tdoc limitation).

R2-2404494 Correction to MAC on cast type Ericsson CR Rel-16 38.321 16.15.0 1836 - F NR\_SL\_enh-Core Withdrawn

R2-2404495 Correction to MAC on cast type Ericsson CR Rel-17 38.321 17.8.0 1837 - F NR\_SL\_enh-Core

R2-2404523 Correction to MAC on cast type Ericsson CR Rel-18 38.321 18.1.0 1838 - A NR\_SL\_enh-Core

R2-2405234 Correction on tx profile for SL DRX ZTE Corporation, Sanechips CR Rel-17 38.331 17.8.0 4757 2 F NR\_SL\_enh-Core R2-2403921

R2-2405235 Correction on tx profile for SL DRX ZTE Corporation, Sanechips CR Rel-18 38.331 18.1.0 4758 2 A NR\_SL\_enh-Core R2-2403922

R2-2405413 Correction on NR SL discovery transmission Philips International B.V. CR Rel-17 38.331 17.8.0 4834 - F NR\_SL\_enh-Core

R2-2405432 Correction on NR SL discovery transmission Philips International B.V. CR Rel-18 38.331 18.1.0 4835 - A NR\_SL\_enh-Core

## 7.15 NR Sidelink evolution

(NR\_SL\_enh2; leading WG: RAN1; REL-18; WID: [RP-230077](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_99/Docs/RP-230077.zip))

Time budget: 0 TU

Tdoc Limitation: 2 tdocs

### 7.15.1 Organizational

Including incoming LSs and rapporteur inputs. CR rapporteurs are asked to continue maintaining an open issues list reflecting known issues to be handled during the maintenance phase.

R2-2404106 Reply to LS on IUC or DRX in co-channel co-existence (R1-2403573; contact: LGE) RAN1 LS in Rel-18 NR\_SL\_enh2-Core To:RAN2

R2-2404108 LS on CPE starting position for S-SSB in SL-U (R1-2403578; contact: OPPO) RAN1 LS in Rel-18 NR\_SL\_enh2-Core To:RAN2

R2-2404109 LS on updating RAN1 agreement about minimum time gap Z (R1-2403588; contact: Huawei) RAN1 LS in Rel-18 NR\_SL\_enh2-Core To:RAN2

### 7.15.2 Control plane corrections

Including RRC corrections and ASN.1 RILs. A single CR with miscellaneous corrections is requested; minor and editorial issues should be coordinated with the CR rapporteur and merged into the miscellaneous CR. Note RRC CR rapporteur’s summary and suggestion may be provided.

R2-2404167 Correction on Release-18 SL Evolution OPPO CR Rel-18 38.331 18.1.0 4646 2 F NR\_SL\_enh2 R2-2403930

R2-2404168 Left issues on RRC OPPO discussion Rel-18 NR\_SL\_enh2

Proposal 1 R2 confirm the configured carrier-set configuration for two RLC legs in case of PDCP duplication would not affect the usage of legacy-carrier before initial RRCReconfigurationCompleteSidelink message which confirms SL CA carrier(s) addition.

R2-2404171 RIL list for R18 SL OPPO report Rel-18 NR\_SL\_enh2

R2-2404200 [O324] Allowed carrier indication upon carrier addition and release OPPO discussion Rel-18 NR\_SL\_enh2

Proposal 1 R2 discuss to capture the allowed-carrier indication to lower layer due to RRCReconfigurationCompleteSidelink message confirming SL CA carrier(s) addition/release into 5.8.9.1b.2.2 / 5.8.9.1b.1.2, and remove that in 5.8.9.1a.4.

R2-2404574 Correction on TS 38.331 for SL Xiaomi discussion

Proposal 1: RAN2 to agree to clarify that the existing procedure to indicate the allowed carriers for the original RLC bearer for SRB applies to the case when PDCP duplication is not enabled.

Proposal 2: RAN2 to agree TP1 in Annex.

Proposal 3: For STCH, when duplication is configured, when the UE is in RRC\_IDLE / RRC\_INACTIVE / OOC, a UE can use any carrier within the super-set of <legacy carrier, and the carriers that the QoS flows of the unicast link associate with> but has to ensure the two RLC legs are not mapped to the same carrier.

Proposal 4: RAN2 to agree TP2 in Annex.

R2-2404216 [H162][H163] Discussion on RRC issues Huawei, HiSilicon discussion Rel-18 NR\_SL\_enh2

Proposal 1: [H162] RAN2 to confirm that SL CA can be applied when the PDCP duplication is not used.

Proposal 2: [H162] RAN2 to adopt TP1 in Annex if Proposal 1 is agreed.

Proposal 3: [H163] For RRC\_IDLE/INACTIVE UE, if SL C-LBT failure is detected for all the RB sets in RP with PSFCH and even there are still available RB set(s) in RP without PSFCH, SL RLF should be triggered for all UC connections configured with HARQenabled LCH(s).

Proposal 4: [H163] If proposal 3 is agreed, RAN2 to agree TP2 in Annex.

R2-2404318 Discussion on remaining issue of TS 38.304 NEC Corporation discussion Rel-18 NR\_SL\_enh2

Proposal 1 It is suggested to capture the UE cell selection behaviour in TS 38.304 if the UE would like to perform V2X use case with multi-carrier.

Proposal 2 If propose 1 is agreed, it is suggested to adopt the corresponding TP.

R2-2405230 [Z712][Z713]Discussion on control plane correction ZTE Corporation, Sanechips discussion Rel-18 NR\_SL\_enh2

Proposal 1 For SRB, legacy carrier is used if the SL-TxProfile of at least one associated QoS flow for the destination indicates backwardsCompatible, and adopt the TP-1 in Annex.

Proposal 2 Suggest to add “after receiving RRCReconfigurationCompleteSidelink”, and add”1/2/3” after SRB, adopt the TP-2 in annex clause.

### 7.15.3 User plane corrections

Including MAC corrections. A single CR with miscellaneous corrections is requested; minor and editorial issues should be coordinated with the CR rapporteur and merged into the miscellaneous CR. Note RRC CR rapporteur’s summary and suggestion may be provided.

R2-2404838 Correction on Release-18 Sidelink evolution LG CR Rel-18 38.321 18.1.0 1830 1 F NR\_SL\_enh2-Core R2-2403931

R2-2405685 Summary on user plane corrections LG Electronics Inc. discussion NR\_SL\_enh2 Late

**TP for SL CSI Reporting MAC CE:**

R2-2404357 Correction on Sidelink CSI reporting MAC CE LG Electronics Inc. discussion Rel-18 38.321 NR\_SL\_enh2

R2-2404217 Correction on SL CSI reporting MAC CE Huawei, HiSilicon discussion Rel-18 NR\_SL\_enh2

R2-2404358 Discussion on CSI report for Carrier Aggregation SHARP Corporation discussion NR\_SL\_enh2-Core

R2-2404385 SL CSI report Nokia discussion NR\_SL\_enh2

R2-2405232 Discussion on specification impact on SL CSI report ZTE Corporation, Sanechips, Ericsson discussion Rel-18 NR\_SL\_enh2

**Re-evaluation and pre-emption for MCSt:**

R2-2404210 Remaining issue on Re-evaluation/Pre-emption for MCSt CATT discussion

Proposal 1: Specify how MAC entity shall determine the number of consecutive slots used for re-evaluation or pre-emption in the MCSt case by down-selecting the following two options:

 Option 1: Only the resources in the first slot or the resources in all the slots of the Multi-consecutive slots transmission shall be re-evaluated or checked for pre-emption;

 Option 2: Only the resources in the first or last M consecutive slots shall be re-evaluated or checked for pre-emption.

Proposal 2: Specify the agreed option in Proposal 1 via normative texts in subclause 5.22.1.2a in MAC Spec.

P2 in R2-2404169

Proposal 2 R2 not pursue P2 in R2-2403047.

**HARQ A/N for GC and PSFCH resources:**

P4 in R2-2405231 (ZTE)

Proposal 4 It’s up to UE implementation to determine the number of candidate PSFCH resources, and adopt the TP-4 in annex clause.

P2 in R2-2404218 (Huawei)

Proposal 2: No spec impact is needed as such issue can be avoided by NW implementation (i.e. NW can configure same number of candidate PSFCH resource for different PSFCH occasions).

**SL LBT Failure reporting:**

P1 in R2-2404218 (Huawei)

 Proposal 1: RAN2 to discuss the following options to ensure that SL LBT failures are able to be reported:

  To define the start point for evaluating “SL LBT failure MAC CE(s) has not been generated”. The corresponding TP is provided in Annex – TP1 (option 1).

 UE evaluates whether the SL LBT failure MAC CE for a certain RB set has not been generated, and consider SL LBT failure MAC CE for the RB set has not been generated after the SL C-LBT failure is recovered. The corresponding TP is provided in Annex – TP2 (option 2).

P1 in R2-2404497 (Ericsson)

Proposal 1 For SL LBT failure report in case of Mode 2, no further spec change is pursued.

**Configuration of both IUC and Co-Ex:**

P3 and P4 in R2-2404169 (OPPO)

Proposal 3 For co-configuration of IUC scheme-1 and Co-Ex, revise TS 38.321 clause 5.22.1.1, so that for preferred-resource + full-sensing case, UE firstly select resource, following the additional requirement for Co-Ex, within the intersection between IUC preferred resource and full sensing resource candidates reported by lower layer, if available. Otherwise (if no available resource in the intersection), UE perform resource selection by ignoring IUC preferred resource filtering.

Proposal 4 For co-configuration of IUC scheme-2 and Co-Ex, revise TS 38.321 clause 5.22.1.2b, so that UE select resource within the full sensing resource candidates reported by lower layer following the additional requirement for Co-Ex, by excluding the conflict resource(s) for the removed resource.

**Co-Ex Correction:**

R2-2404496 Correction to resource selection for LTE-NR cochannel scenario Ericsson, LG Electronics Inc. CR Rel-18 38.321 18.1.0 1807 1 F NR\_SL\_enh2 R2-2402946

**Others:**

P4 and P5 in R2-2404218 (Huawei)

Proposal 4: When the MAC entity selects carrier(s) among the candidate carriers with increasing order of CBR from the lowest CBR, it can skip CCs that would cause the aggregated bandwidth to exceed UE capability once selected, and continue with selecting carriers among other candidate carriers with increasing order of CBR.

Proposal 5: If proposal 4 is agreed, RAN2 to adopt TP3 for TS 38.321.

P1 and P2 in R2-2404319 (NEC)

Proposal 1 Not support the feature of LTE Uu control NR sidelink for both SL-U and SL-CA.

Proposal 2 It is suggested to agree the corresponding TP1 and TP2.

R2-2404320 Clarification on SL DRX RTT timer for SL-U SHARP Corporation discussion Rel-18

P7 and P8 in R2-2404575 (Xiaomi)

Proposal 7: RAN2 to agree to delete the corresponding description on sl-lbt-FailureDetectionTimer upon BWP deactivation.

Proposal 8: RAN2 to agree with TP3 in Annex.

P1 and P2 in R2-2405231 (ZTE)

Proposal 1 If legacy carrier is indicated to be used by upper layer, UE should select legacy carrier directly without taking the CBR restriction into account, and adopt the TP-1.

Proposal 2 Add the parameter of sl-AllowedCarriers in the clause 5.22.1.4.1.1 to align the description in RRC and MAC specification, and adopt the TP-2.

P3 in R2-2405231 (ZTE):

Proposal 3 Delete the description of carrier mapping restrictions for destination selection if the UE is configured with SL relay discovery or A2X communication related resource pool, correct typo, and adopt the TP-3.

P5 in R2-2405231 (ZTE):

Proposal 5 Add “associated to the LCID” in sidelink RLC entity establishment clause, agree the draft CR-4 in Annex.

R2-2405462 Discussion on carrier selection for SL MAC CE(s) LG Electronics Inc. discussion NR\_SL\_enh2

=> Revised in R2-2405698

R2-2405698 Discussion on carrier selection for SL MAC CE(s) LG Electronics Inc. discussion NR\_SL\_enh2

Proposal 1. Carrier selection procedure for SL MAC CE(s) (i.e., SL CSI Reporting MAC CE, SL DRX Command MAC CE, SL IUC Request/Information MAC CE) is specified in 5.22.1.11.

Proposal 1-1. UE selects a carrier on which the SL IUC Request was received as a carrier for transmission of a SL IUC Information MAC CE.

Proposal 1-2. Carrier selection of SL IUC Request MAC CE, Condition based SL IUC Information MAC CE and SL DRX command MAC CE uses the same procedure as the carrier selection procedure of logical channel data.

R2-2404169 Left issues on MAC OPPO discussion Rel-18 NR\_SL\_enh2

R2-2404218 MAC corrections for SL evolution Huawei, HiSilicon discussion Rel-18 NR\_SL\_enh2

R2-2404319 Discussion on remaining issue of TS 38.321 NEC Corporation discussion Rel-18 NR\_SL\_enh2

R2-2404497 Discussion on remaining UP issues Ericsson discussion Rel-18 NR\_SL\_enh2

R2-2404575 Correction on TS 38.321 for SL Xiaomi discussion

R2-2404892 Discussion on re-evaluation and pre-emption check for MCSt vivo discussion Rel-18

R2-2405228 On group size and PSFCH occasions for SL-U Nokia discussion NR\_SL\_enh2

R2-2405231 Discussion on remaining issues on user plane for SL evo ZTE Corporation, Sanechips discussion Rel-18 NR\_SL\_enh2

## 8.5 Network Energy Saving Enh.

(Netw\_Energy\_NR\_enh-Core; leading WG: RAN1; REL-19; WID: [RP-240170](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_103/Docs/RP-240170.zip))

Time budget: 1 TU

Tdoc Limitation: 3 tdocs

### 8.5.1 Organizational

LS, Rapporteur input, including workplan, etc.

R2-2404121 LS on the conditions for triggering UL WUS transmission to request on-demand SIB1 (R1-2403779; contact: MediaTek) RAN1 LS in Rel-19 Netw\_Energy\_NR\_enh To:RAN2

### 8.5.2 On-demand SSB SCell operation

Scenarios/use cases, RAN2 spec impacts and high-level solutions.

R2-2404170 Discussion on On-Demand SSB OPPO discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404201 Discussion on on-demand SSB for NES Ericsson discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404227 On-demand SSB SCell Operation Samsung discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404261 RAN2 impacts to enable on-demand SSB SCell Intel Corporation discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404576 Discussion on on-demand SSB Xiaomi discussion

R2-2404633 Discussion on RAN2 work of on-demand SSB for Scell Apple discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404821 Issues on the procedure of on-demand SSB SCell operation Lenovo discussion Rel-19

R2-2404857 Further consideration on on-demand SSB SCell operation in connected mode ZTE Corporation, Sanechips discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404893 Discussion on on-demand SSB SCell operation vivo discussion Rel-19

R2-2404909 On-demand SSB Scell operation discussion Sony discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404931 Discussion on on-demand SSB SCell operation Spreadtrum Communications discussion Rel-19

R2-2404949 Consideration on on-demand SSB SCell operation CATT discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2405034 Discussion on on-demand SSB SCell operation CMCC discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2405076 Discussion on On-demand SSB for SCell NEC discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2405122 Discussion on on-demand SSB SCell operation for NES Huawei, HiSilicon discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2405138 On demand SSB transmission for SCell InterDigital discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2405225 On-demand SSB SCell operation LG Electronics Inc. discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2405289 Discussion on on-demand SSB SCell operation Fujitsu discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2405294 Discussion on On-demand SSB SCell Operation Qualcomm Incorporated discussion

R2-2405310 On-demand SSB SCell operation China Telecom discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2405566 On demand SSB handling Nokia discussion Rel-18 Netw\_Energy\_NR\_enh-Core

R2-2405660 Discussion on on-demand SSB procedure Quectel discussion Rel-19 Late

### 8.5.3 On-demand SIB1

Any further consideration on scenarios/use cases, UL WUS configuration, triggering conditions the UE to request on-demand SIB1, procedure of on-demand SIB1 request by RACH, other impacts on RRC idle/inactive UEs (including cell barring, etc.), any impact on RRC connected UEs, etc.

R2-2404153 Discussion on on-demand SIB1 Xiaomi discussion Rel-19

R2-2404213 Discussion on on-demand SIB1 for NES Ericsson discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404226 On-demand SIB1 Samsung discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404262 UE behaviour when (re)selecting to a NES Cell including further solution details and scenarios to support OD-SIB1 Intel Corporation discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404449 Discussion on on-demand SIB1 transmission for network energy savings Fujitsu Limited.. discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404458 Scenarios, configuration, and camping Lenovo discussion Netw\_Energy\_NR\_enh-Core

R2-2404565 Discussion on scenarios and procedure of on-demand SIB1 HONOR discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404634 Further discussion on on-demand SIB1 Apple discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404829 Discussion on on-demand SIB1 for NES Rakuten Mobile, Inc discussion Rel-19

R2-2404858 Further consideration on on-demand SIB1 in idle and inactive mode ZTE Corporation, Sanechips discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404886 Discussion on the scenarios for on-demand SIB1 Google Inc. discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404894 Discussion on on-demand SIB1 for RRC IDLE and INACTIVE UE vivo discussion Rel-19

R2-2404910 UL WUS for on-demand SIB1 Sony discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404911 On-demand SIB1 for IDLE/INACTIVE UEs Sony discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404950 Consideration on on-demandSIB1 issues CATT discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2405035 Discussion on on-demand SIB1 CMCC discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2405049 Consideration on on-demand SIB1 OPPO discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2405136 On-demand SIB1 request and reception InterDigital discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2405226 On-demand transmission of SIB1 LG Electronics Inc. discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2405275 Discussion on On-demand SIB1 and RACH handling NEC Telecom MODUS Ltd. discussion

R2-2405295 Discussion on On-demand SIB1 Qualcomm Incorporated discussion

R2-2405311 On-demand SIB1 for UEs in idle/inactive mode China Telecom discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2405356 Discussion on on-demand SIB1 Sharp discussion

R2-2405552 Discussion on on-demand SIB1 for NES CEWiT discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2405567 On demand SIB1 handling Nokia discussion Rel-18 Netw\_Energy\_NR\_enh-Core

R2-2405611 On-demand SIB1 for NES Fraunhofer IIS discussion Rel-19

R2-2405619 Discussion on on-demand SIB1 operation for NES Huawei, HiSilicon discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2405640 On-demand SIB1 for Idle/Inactive mode UEs III discussion Netw\_Energy\_NR\_enh

### 8.5.4 Adaptation of common signal/channel transmissions

Further consideration of adapation of paging occasions in time domain, legacy UE impact (including barring aspect for paging adaptation), configuration aspect for paging adaptation, RAN2 spec impact and solutions for RACH adaptation (with consideration of RAN1 progress, note study of RACH adaptation in spatial domain needs to be concluded), etc.

R2-2404183 Discussion on adaptation of common signal/channel transmissions OPPO discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404228 Adaptation of common signal/channel transmissions Samsung discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404263 RAN2 impacts to enable adaptation of paging and RACH in time Intel Corporation discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404349 Adaptation of common signal or channel Fujitsu discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404566 Discussion on adaptation of common signal/channel transmissions HONOR discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404577 Discussion on common signal adaptation Xiaomi discussion

R2-2404635 Further discussion on RAN2 work of common signal transmission adaptation Apple discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404822 Paging and PRACH adaptation for NES operation Lenovo discussion Rel-19

R2-2404851 Discussion on the paging occasion adaptation ITRI discussion Netw\_Energy\_NR\_enh-Core

R2-2404859 Further consideration on paging occasion adaptation ZTE Corporation, Sanechips discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2404895 Discussion on adaptation on common signal transmissions vivo discussion Rel-19

R2-2404932 Discussion on adaptation of common signal/channel transmissions Spreadtrum Communications discussion Rel-19

R2-2404951 Consideration on adaptation of common signalchannel transmissions CATT discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2405036 Discussion on adaptation of common signalchannel transmissions CMCC discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2405123 Discussion on adaptation of common signal/channels transmissions Huawei, HiSilicon discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2405137 Time domain adaptation of common signalling and channels InterDigital discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2405276 Paging enhancements and legacy UE barring NEC Telecom MODUS Ltd. discussion

R2-2405290 Adaptation of common signal/channel transmissions for NES Ericsson discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2405296 Discussion on Adaptation of Common Signal/Channel Transmissions Qualcomm Incorporated discussion

R2-2405428 Discussion on paging adaptation ASUSTeK discussion Rel-19 Netw\_Energy\_NR\_enh-Core

R2-2405568 Common signal aspects of NES WI Nokia discussion Rel-18 Netw\_Energy\_NR\_enh-Core

R2-2405576 Discussion on adaptation of paging signal/channel III discussion

R2-2405621 Adaptation of Common Signals and Channels for NES Fraunhofer IIS discussion Rel-19

R2-2405694 Discussion on common signal and channel adaptation LG Electronics Inc. discussion Rel-19 Netw\_Energy\_NR\_enh

## 8.6 Mobility Enhancement Ph4

(NR\_Mob\_Ph4-Core; leading WG: RAN2; REL-19; WID: [RP-240299](http://ftp.3gpp.org/tsg_ran/TSG_RAN/TSGR_103/Docs/RP-240299.zip))

Time budget: 2 TU

Tdoc Limitation: 2 tdocs

### 8.6.1 Organizational

LS, Rapporteur input, including workplan, etc.

R2-2404641 Important topics for further progress of the WI Apple, China Telecom (rapporteurs) discussion Rel-19 NR\_Mob\_Ph4-Core

### 8.6.2 Inter-CU LTM

Any further consideration on scenarios/use cases, signalling flows, spec impacts and solutions in LTM preparation phase (e.g. to what extend the RRC procedure, RRC modeling, reference configuration of R18 can be reused, etc.), early sync phase, and LTM cell switch execution phase, any further consideration on security key handling, and details on subsequent inter-CU LTM and subsequent intra-CU LTM after an inter-CU or intra-CU LTM switch, etc.

R2-2404165 Discussion on inter-CU LTM CATT discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2404271 Supporting inter-CU LTM with intra-CU LTM Intel Corporation discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2404296 Further discussion on Inter-CU LTM MediaTek inc. discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2404337 Inter CU LTM Discussion in Predictive mobility Scenarios Lekha Wireless Solutions discussion Rel-19 Late

R2-2404416 Discussion on inter-CU LTM OPPO discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2404421 Discussion on inter-CU LTM vivo discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2404464 Important aspects regarding inter-CU LTM Ericsson discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2404563 Discussion on inter-CU LTM HONOR discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2404608 Discussion on Inter-CU LTM Xiaomi discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2404642 Discussion on Inter-CU LTM topics Apple discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2404780 Discussion on inter-CU LTM Panasonic discussion

R2-2404796 Discussions security update on inter-CU LTM KDDI Corporation discussion Rel-19

R2-2404806 Discussion on Inter-CU LTM Lenovo discussion Rel-19

R2-2404826 Discussion on inter-CU LTM LG Electronics discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2404835 Radio Resource aspects for intra-CU and inter-CU LTM Rakuten Mobile, Inc discussion Rel-19

R2-2404836 Initial considerations for inter-CU LTM Rakuten Mobile, Inc discussion Rel-19

R2-2404852 Discussion on subsequent inter-CU LTM ITRI discussion NR\_Mob\_Ph4-Core

R2-2404912 LTM for Inter-CU Sony discussion Rel-19 NR\_Mob\_Ph4

R2-2404921 Discussion on inter-CU LTM NEC discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2404923 Discussion on Inter-CU LTM Spreadtrum Communications discussion Rel-19

R2-2404980 Discussion on Inter-CU LTM KT Corp. discussion

R2-2404984 Further discussion on Inter-CU LTM cell switch Transsion Holdings discussion Rel-19

R2-2405037 Discussion on Inter-CU LTM CMCC discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2405062 Discussion on inter-CU LTM ZTE Corporation discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2405111 Discussion on Inter-CU LTM Interdigital, Inc. discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2405163 On inter-CU aspects for LTM Nokia discussion Rel-19 NR\_Mob\_Ph4 Withdrawn

R2-2405221 Inter-CU LTM Huawei, HiSilicon discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2405316 Discussion on Inter-CU LTM China Telecom discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2405362 Potential issues on inter-CU LTM Kyocera discussion Rel-19 R2-2403422

R2-2405391 Further Considerations to Support Inter-CU LTM Samsung discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2405460 Discussion on security and procedures for inter-gNB LTM Qualcomm Incorporated discussion

R2-2405469 Inter-gNB LTM and moving PDCP anchor Qualcomm Incorporated, NTT DOCOMO, Sony discussion

R2-2405519 Discussion on inter-CU LTM ITL discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2405553 LTM Enhancements for Inter-CU mobility CEWiT discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2405588 Discussion on Inter-CU LTM ETRI discussion Rel-19

R2-2405620 Discussion on issues for supporting inter-CU LTM Sharp discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2405666 On inter-CU aspects for LTM Nokia discussion Rel-19

### 8.6.3 Measurement enhancements for LTM

Details of event-triggered L1 measurement reporting including configuration aspect, beam level and/or cell level measurement?, event definitions, need of L1 filtering and timeToTrigger, Hys, etc.

R2-2404166 Event-triggered L1 measurement reporting CATT discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2404297 Discussion on event-triggered L1 measurement reporting MediaTek inc. discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2404350 Measurement enhancements for LTM Fujitsu discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2404417 Discussion on event-triggered L1 measurement reporting OPPO discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2404422 Discussion on measurement enhancement for LTM vivo discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2404457 L1 Measurement enhancements Lenovo discussion NR\_Mob\_Ph4-Core

R2-2404463 Important aspects regarding event triggered L1 measurements Ericsson, T-Mobile USA discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2404564 Discussion on L1 measurement enhancements HONOR discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2404677 Measurement enhancements for LTM Apple discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2404779 Event-Triggered L1 Report for LTM Huawei, HiSilicon discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2404924 Discussion on measurement enhancements for LTM Spreadtrum Communications discussion Rel-19

R2-2404985 Discussion on measurement enhancement for LTM Transsion Holdings discussion Rel-19

R2-2405014 Discussion on LTM measurement related enhancements CMCC discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2405063 Discussion on event-triggered L1 measurement reporting ZTE Corporation discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2405077 Discussion on event triggered L1 measurement reporting NEC discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2405112 Event triggered L1 reporting for LTM Interdigital, Inc. discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2405149 On Measurement-related Enhancements for Rel-19 LTM Nokia discussion Rel-19 NR\_Mob\_Ph4 R2-2403305

R2-2405317 Discussion on event-triggered L1 measurement reporting for LTM China Telecom discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2405385 Consideration on event-triggered L1 measurement reporting Kyocera discussion Rel-19 R2-2403423

R2-2405392 Support of Event-Triggered L1 Measurement Enhancements for LTM Samsung discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2405487 Discussion on event-triggered L1 measurement reporting Xiaomi discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2405492 Measurement related enhancements for LTM LG Electronics Inc. discussion NR\_Mob\_Ph4-Core

R2-2405522 Discussion on measurement enhancements for LTM ITL discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2405607 Proposals for event triggered L1 measurement report Sharp discussion Rel-19 NR\_Mob\_Ph4-Core

R2-2405610 Discussion on event triggered L1 measurement reporting KDDI Corporation discussion Rel-19