**3GPP TSG-RAN WG1 #102-e R1-200xxxx**

**e-Meeting, August 17th – 28th, 2020**

**Agenda item:** 5

**Source:** 3GPP TSG RAN1 Chairman

**Title:** RAN1#102-e preparation phase on LSs

**Document for:** Discussion/Decision

# Introduction

In this document, we will summarize contributions submitted to Agenda Item 5 of RAN1#102-e, and identify a set of critical LSs (if any) that need to be addressed in the subsequent email discussion/approval phase .

# Summary

The list of contributions can be found in the References section. Herein we organize the LSs based on the respective topics. Note that the goal is to identify the LS **critical** to address during this e-Meeting.

## Incoming LSs “To RAN1”

### LTE

#### R1-2005205 LS reply on PUR transmission for NB-IoT/eMTC RAN2, Ericsson

Related contributions:

* None in AI 5.

Initial assessment:

* Noted. No subsequent email discussion. Potential RAN1 specification impact can be discussed under 6.2.1/6.2.2.

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| **Company** | **Views** |
| FUTUREWEI | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with the initial assessment. |
| ZTE | There are RAN1 specification impacts from the LS and the related TP will be discussed in 6.2.1/6.2.2. Depending on the discussion, reply LS could be needed. |
| Nokia | Agree with the initial assessment |
| Ericsson | Agree with initial assessment |

#### R1-2005211 LS on power sharing for LTE Mobility Enhancements RAN2, Ericsson

Related contributions:

* [R1-2006185](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006185.zip) On LTE DAPS power coordination Qualcomm Incorporated
* [R1-2006336](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006336.zip) [DRAFT] Reply LS on power sharing for LTE mobility enhancements ZTE
* [R1-2006337](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006337.zip) Discussion on uplink power sharing for LTE mobility enhancements ZTE
* [R1-2006925](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006925.zip) Power sharing for LTE mobility enhancements Huawei, HiSilicon
* [R1-2006926](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006926.zip) [DRAFT] LS reply to RAN2 on power sharing for LTE mobility enhancements Huawei, HiSilicon

Initial assessment:

* There are specific actions to RAN1
* Noted; reply LS is necessary – target 08/20 for email approval.

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| **Company** | **Views** |
| Huawei, HiSilicon | Reply to RAN2 is needed. RAN1 needs to first discuss the power sharing support is mandatory or can also be up to capability reporting for LTE DAPS; if capability reporting, what UE behaviour is when UE not supporting it; whether NW can enable/disable power sharing, etc. All these issues related to power sharing were discussed for NR DAPS. It does not seem practical to revisit all these issues again for LTE DAPS in this late stage of Rel-16 maintenance. |
| ZTE | Agree with the initial assessment. |
| Nokia | Agree with the initial assessment. Agree with Huawei that extensive specification work for LTE DAPS power sharing at this stage of Rel-16 work. |
| Intel | Agree with Chairman assessment. |
| Ericsson | Agree with initial assessment. Note that depending on the outcome of the discussion, there may be a need for changes in the RAN1 specifications. |

### NR

#### R1-2005203 LS on Detail MIMO MAC CE operations RAN2, Samsung

Related contributions:

* [R1-2005324](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005324.zip) Draft reply on LS on Detail MIMO MAC CE operations vivo
* [R1-2005492](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005492.zip) Draft reply LS on detail MIMO MAC CE operations ZTE
* [R1-2005650](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005650.zip) Draft reply LS to RAN2 on MIMO MAC CE operations CATT
* [R1-2005818](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005818.zip) [Draft] Reply LS on Detail MIMO MAC CE operations Lenovo, Motorola Mobility
* [R1-2005994](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005994.zip) Discussion on LS on Detail MIMO MAC CE operations OPPO
* [R1-2006077](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006077.zip) [Draft] Reply LS on remaining eMIMO issues Samsung
* [R1-2006590](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006590.zip) Draft reply LS on Detail MIMO MAC CE operations LG Electronics
* [R1-2006679](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006679.zip) Draft LS response on Detail MIMO MAC CE operations Ericsson
* [R1-2006943](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006943.zip) Draft reply LS on detail MIMO MAC CE operations Huawei, HiSilicon

Initial assessment:

* There are specific actions to RAN1
* Noted; reply LS is necessary – target 08/21 for email approval, to be managed under 7.2.6.

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| **Company** | **Views** |
| Samsung | Agree to the initial assessment. |
| FUTUREWEI | Agree with the initial assessment. |
| vivo | Agree with the initial assessment. |
| CATT | Agree with the initial assessment. |
| OPPO | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| Nokia | Agree with the initial assessment |
| Lenovo, Motorola Mobility | Agree with the initial assessment |
| Intel | Agree with assessment. LS reply is needed. |
| Ericsson | Agree with initial assessment |

#### R1-2005224 LS on feasibility of ULFPTx modes and transparent TxD for certain UE implementations RAN4, Huawei

Related contributions:

* [R1-2005325](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005325.zip) Draft reply on LS on clarification of transparent diversity feasibility vivo
* [R1-2005491](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005491.zip) Draft reply LS on feasibility of ULFPTx modes and transparent TxD for certain UE implementations ZTE
* [R1-2005651](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005651.zip) Draft reply LS to RAN4 on feasibility of ULFPTx modes and transparent TxD for certain UE implementations CATT
* [R1-2005995](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005995.zip) Discussion on feasibility of ULFPTx modes and transparent TxD for certain UE implementations OPPO
* [R1-2006080](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006080.zip) [Draft] Reply LS on clarification of transparent diversity feasibility Samsung
* [R1-2006591](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006591.zip) Draft reply LS on feasibility of ULFPTx modes and transparent TxD for certain UE implementations LG Electronics
* [R1-2006617](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006617.zip) Draft LS reply on feasibility of ULFPTx modes and transparent TxD for certain UE implementations Ericsson
* [R1-2006938](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006938.zip) Draft reply LS on feasibility of UL FPT modes and transparent TxD for certain UE implementations Huawei, HiSilicon

Initial assessment:

* There are specific actions to RAN1
* Noted; reply LS is necessary – target 08/20 for email approval, to be managed under 7.2.6.

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| **Company** | **Views** |
| Samsung | Agree to the initial assessment. |
| FUTUREWEI | Agree with the initial assessment. |
| vivo | Agree with the initial assessment. |
| CATT | Agree with the initial assessment. |
| OPPO | Agree with the initial assessment. |
| Huawei, HiSilicon | Fine with the initial assignment |
| ZTE | We agree with the initial assessment. |
| Nokia | Agree with the initial assessment. |
| Intel | Agree with assessment. LS reply is needed. |
| Ericsson | Agree with initial assessment |

#### R1-2005204 LS to RAN1 on signalling SFN bits for random access response RAN2, Ericsson

Related contributions:

* [R1-2005655](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005655.zip) Discussion on signaling SFN bits for random access response CATT
* [R1-2006647](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006647.zip) Discussion on LS to RAN1 on signaling SFN bits for random access response LG Electronics

Initial assessment:

* Noted. No subsequent email discussion Potential RAN1 specification impact can be discussed under 7.2.2.

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| **Company** | **Views** |
| Samsung | Agree to the initial assessment. |
| vivo | Agree with the initial assessment. |
| CATT | Agree to discuss potential RAN1 specification impact under 7.2.1. |
| Huawei, HiSilicon | Agree with initial assessment. There are standard impacts in 38.212 and 38.213 to reflect the LS. |
| ZTE | Agree with the initial assessment. |
| Nokia | Agree with the initial assessment |
| Lenovo, Motorola Mobility | Agree with the initial assessment |
| Intel | Agree with assessment |
| Ericsson | TPs needed; requires email discussion.  Should be handled in NR-U AI 7.2.2.2.2. |

#### R1-2005220 LS on Clarification on UE behavior after receiving the MAC CE deactivation command for semi-persistent CSI reporting in NR-U RAN4, Nokia

Related contributions:

* [R1-2005326](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005326.zip) Draft reply on LS on Clarification on UE behavior after receiving the MAC CE deactivation command for semi-persistent CSI reporting in NR-U vivo
* [R1-2006759](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006759.zip) Discussion of the LS about cancelled ACK for MAC deactivation Qualcomm Incorporated
* [R1-2006940](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006940.zip) Discussion on UE behavior after receiving the MAC CE deactivation command for semi-persistent CSI reporting in NR-U Huawei, HiSilicon

Initial assessment:

* There are specific actions to RAN1
* Noted; reply LS is necessary – target 08/20 for email approval, to be managed under 7.2.2.

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| **Company** | **Views** |
| Samsung | Agree to the initial assessment. Related Samsung contribution is available under 7.2.2.1.2 (R1-2006093) |
| FUTUREWEI | Agree with the initial assessment. |
| vivo | Agree with the initial assessment. Suggest to focus the specific question raised by RAN4, more general discussion about the UE behaviour impact due to the cancellation of UL transmission can be handled in the maintenance session. |
| Huawei, HiSilicon | Agree with initial assessment. The focus should be on answering the question from RAN4 for Rel-16 and not to discuss other cases of cancelled uplink transmissions. |
| ZTE | Agree with the initial assessment. |
| Nokia | Agree with the initial assessment. |
| Lenovo, Motorola Mobility | Agree with the initial assessment. |
| Intel | Agree with assessment |
| Ericsson | Agree with Chairman's assessment; should be handled under 7.2.2. |

#### R1-2005206 LS to RAN1 on physical layer related agreements RAN2, LG Electronics

Related contributions:

* [R1-2005649](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005649.zip) Discussion on the LS from RAN2 on physical layer related agreements CATT

Initial assessment:

* Noted. No subsequent email discussion. Potential RAN1 specification impact can be discussed under 7.2.4.

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| **Company** | **Views** |
| Samsung | Agree to the initial assessment. |
| FUTUREWEI | Agree with the initial assessment. |
| vivo | Agree with the initial assessment. |
| CATT | Agree with the initial assessment. |
| OPPO | RAN2 informed us in this LS their latest agreements relating to groupcast HARQ, mode 1 and mode 2 operations. We suggest that RAN1 should assess any impact to L1 specifications in the V2X procedure, mode 1 and mode 2 AIs, and corresponding feature leads could drive this assessment during the preparation phase (this week) and if necessary prepare TPs to incorporate these agreements in the following week(s). |
| Huawei, HiSilicon | Fine with initial assessment. |
| ZTE, Sanechips | Agree with the initial assessment. |
| Nokia | Agree with the initial assessment |
| Intel | Agree with Chairman assessment. |
| LG Electronics | Agree with Chairman’s initial assessment. To be specific, in this meeting, at least RAN1 needs to address the issue relevant to the following RAN2 agreement under AI 7.2.4.2.2 (i.e., Mode 2) and send the reply LS to RAN2.   * RAN2 agreement on mode 2: * RAN2 expects that RAN1 will discuss whether ReTX resources of a MAC PDU are reserved neither right on nor after new TX resource of the next MAC PDU for a configured sidelink grant reserved for a particular Sidelink process. |
| Ericsson | The LS contains the following text “RAN2 expects that RAN1 will discuss whether ReTX resources of a MAC PDU are reserved neither right on nor after new TX resource of the next MAC PDU for a configured sidelink grant reserved for a particular Sidelink process.”  Discussion is necessary and should be part of an e-mail discssusion. A reply LS may be necessary too. |

#### R1-2005223 Reply LS to RAN2 on UL-SL Prioritization RAN4, Futurewei

Related contributions:

* R1-2005315 Discussion of RAN4 LS on UL-SL prioritization ZTE, Sanechips

Initial assessment:

* Noted. No subsequent email discussion. Potential RAN1 specification impact can be discussed under 7.2.4.

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| **Company** | **Views** |
| Samsung | Agree to the initial assessment. |
| FUTUREWEI | Agree with the initial assessment. |
| vivo | Agree with the initial assessment. |
| CATT | Agree with the initial assessment. |
| OPPO | Agree with the initial assessment. This RAN4 LS informs RAN2 their conclusion/finding on NR-UL/-SL prioritization in a shared/same carrier frequency, which has no impact to RAN1 spec now (as we have already completed all related work). |
| Huawei, HiSilicon | Fine with initial assessment. |
| ZTE, Sanechips | We are ok to chairman’s initial assessment.  However, one of intentions in RAN4’s LS to RAN1/RAN2 is to claim that “A coexistence study has to be done to confirm that FDM is feasible for any band considered in RAN4”. The RAN1’s current status is having NO support for FDM between UL and SL in a same carrier. Further it seems unrealistic for RAN1 to turn around at this late stage to support such feature.  Therefore, if RAN1 just notes the RAN4 LS, the mismatch between RAN4 intention and RAN1 status would be kept and would not be informed to RAN4 and RAN2. This is our concern unless RAN4 LS states “to confirm that FDM is feasible …” from RAN4 perspective only. |
| Nokia | The LS is a reply to RAN2 LS and has no action to RAN1. Hence agree that no RAN1 reply LS or related email discussion is needed. The ZTE/Sanechips Tdoc on how RAN2 should interpret the RAN4 response can be discussed in the 7.2.4 if necessary. |
| Intel | Agree with Chairman assessment. |
| LG Electronics | Agree with Chairman’s initial assessment. Note that according to the approved WF (i.e., R4-2009166), RAN4 agreed to defer a discussion on whether/how to support FDMed TX of UL and SL in shared/same carrier frequency to Rel-17. With this understanding, we don’t think that there will be an impact on RAN1 sepcification/work in Rel-16. |
| Ericsson | Agree with the initial assessment |

#### R1-2005207 LS on capability bits for E-CID measurements RAN2, Huawei

Related contributions:

* [R1-2006931](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006931.zip) [Draft] Reply LS on E-CID measurement capability Huawei, HiSilicon

Initial assessment:

* Noted. No subsequent email discussion. Potential RAN1 specification impact can be discussed under 7.2.8.

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| **Company** | **Views** |
| Samsung | Agree to the initial assessment. |
| FUTUREWEI | Agree with the initial assessment. |
| vivo | Agree with the initial assessment. |
| CATT | Agree with the initial assessment. |
| OPPO | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| Nokia | Agree with the initial assessment, but the response should be taken into account in the UE feature AI rather than in 7.2.8 |
| Lenovo, Motorola Mobility | Agree with the initial assessment, however a more suitable AI for discussion would be UE features. |
| Intel | Agree with Chairman assessment. |
| Ericsson | Agree with initial assessment |

#### R1-2005208 LS on UE capability xDD differentiation for SUL/SDL bands RAN2, Samsung

Related contributions:

* [R1-2005212](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005212.zip) Reply LS on XDD-FRX Differentiation RAN2, Qualcomm
* [R1-2006082](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006082.zip) [Draft] Reply LS on UE capability xDD differentiation for SUL/SDL bands Samsung
* [R1-2006335](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006335.zip) [DRAFT] Reply LS on UE capability xDD differentiation for SUL/SDL bands ZTE
* [R1-2006934](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006934.zip) Draft LS reply on UE capability xDD differentiation for SUL/SDL bands Huawei, HiSilicon
* [R1-2006935](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006935.zip) Discussion on UE capability xDD differentiation for SUL/SDL bands Huawei, HiSilicon

Initial assessment:

* There are specific actions to RAN1
* Noted; reply LS is necessary – target 8/20 for email approval.

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| **Company** | **Views** |
| Samsung | Agree to the initial assessment. |
| vivo | Agree with the initial assessment. |
| CATT | Reply LS is not needed in this RAN1 meeting. We should get RAN4 confirmation first. |
| OPPO | Share the same view as CATT |
| Huawei, HiSilicon | [x5212](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005212.zip) is actually about a different issue from that to be discussed in other contributions. For this one (x5028), we don’t see specific actions needed to RAN1. |
| ZTE | It is fine to discuss this issue in this meeting. However, from our perspective, it seems this issue needs RAN4 confirmation first. Once RAN4 confirmation is ready, we can then discuss the potential RAN1 impacts.  Note: It seems R1-2005212 is not related to this topic here. |
| Nokia | Agree with the initial assessment. It would appear that RAN1 would need to go the feature list through line-by-line for the features that are xDD differentiated, or have a different minimum value for FDD and TDD and say what the interpretation for SUL/SDL should be. |
| Intel | Agree with Chairman assessment. Can be discussed under AI 7.2.11 |
| Ericsson | Agree with initial assessment |

#### R1-2005209 LS on NR SRS carrier switching RAN2, Qualcomm

Related contributions:

* [R1-2005466](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005466.zip) Draft reply LS on NR SRS carrier switching ZTE
* [R1-2005553](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005553.zip) Discussion for NR SRS carrier switching on SUL ZTE
* [R1-2005652](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005652.zip) Draft reply LS to RAN2 on NR SRS carrier switching CATT
* [R1-2005654](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005654.zip) Discussion on NR SRS carrier switching on SUL carrier CATT
* [R1-2006078](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006078.zip) [Draft] Reply LS on NR SRS carrier switching Samsung
* [R1-2006757](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006757.zip) Discussion on SRS carrier switching Qualcomm Incorporated
* [R1-2006945](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006945.zip) Discussion on NR SRS carrier switching Huawei, HiSilicon

Initial assessment:

* There are specific actions to RAN1
* Noted; reply LS is necessary – target 8/21 for email approval.

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| --- | --- |
| **Company** | **Views** |
| Samsung | Agree to the initial assessment. |
| FUTUREWEI | Agree with the initial assessment. |
| vivo | Agree with the initial assessment. |
| CATT | Agree with the initial assessment. |
| OPPO | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| Nokia | Agree with the initial assessment |
| Intel | Agree with assessment. LS reply is needed. Can be managed under managed under 7.2.6. |
| Ericsson | Agree with initial assessment |

#### R1-2005210 Reply LS on DCP RAN2, Huawei

Related contributions:

* [R1-2005505](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005505.zip) Discussion on reply LS on DCP vivo

Initial assessment:

* Noted. No subsequent email discussion. Potential RAN1 specification impact can be discussed under 7.2.7.

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| **Company** | **Views** |
| Samsung | Agree to the initial assessment. |
| vivo | Agree with the initial assessment. |
| CATT | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with initial assessment. |
| ZTE | Agree with the initial assessment. |
| Nokia | Agree with the initial assessment. |
| Intel | Agree with Chairman assessment. |
| Ericsson | Agree with initial assessment. |

#### R1-2005216 LS Reply on UL RTOA reference time RAN3, Ericsson

Related contributions:

* None in AI 5.

Initial assessment:

* Noted. No subsequent email discussion. Potential RAN1 specification impact can be discussed under 7.2.7.

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| **Company** | **Views** |
| Samsung | Agree to the initial assessment. |
| FUTUREWEI | Agree with the initial assessment. |
| vivo | Agree with the initial assessment.  One typo,  Potential RAN1 specification impact can be discussed under 7.2.8 |
| CATT | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment.  Positioning related specification impact should be discussed under 7.2.8 instead of 7.2.7. |
| Nokia | Agree with the initial assessment, indeed AI where the impact is to be discussed should be 7.2.8 |
| Lenovo, Motorola Mobility | Agree with the first part of the initial assessment, however related impacts should be discussed under 7.2.8 |
| Intel | Agree with Chairman assessment. Agree AI is 7.2.8 |
| Ericsson | Agree with initial assessment |

#### R1-2005222 LS on intra/inter-frequency measurement for NR positioning RAN4, Huawei

Related contributions:

* None in AI 5.

Initial assessment:

* Noted. No subsequent email discussion. Potential RAN1 specification impact can be discussed under 7.2.7.

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| --- | --- |
| **Company** | **Views** |
| Samsung | Agree to the initial assessment. |
| vivo | Agree with the initial assessment.  One typo,  Potential RAN1 specification impact can be discussed under 7.2.8 |
| OPPO | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| Nokia | Agree with the initial assessment, indeed AI where the impact is to be discussed should be 7.2.8, but our understanding is that there is no action needed in RAN1. |
| Lenovo, Motorola Mobility | Agree with the first part of the initial assessment, however related impacts should be discussed under 7.2.8 |
| Intel | Agree with Chairman assessment. Agree agenda item 7.2.8 |
| Ericsson | Agree with initial assessment |

#### R1-2005227 LS on measurement gaps for NR positioning RAN4, Ericsson

Related contributions:

* None in AI 5.

Initial assessment:

* Noted. No subsequent email discussion. Potential RAN1 specification impact can be discussed under 7.2.7.

|  |  |
| --- | --- |
| **Company** | **Views** |
| Samsung | Agree to the initial assessment. |
| FUTUREWEI | Agree with the initial assessment. |
| vivo | Agree with the initial assessment.  One typo,  Potential RAN1 specification impact can be discussed under 7.2.8 |
| CATT | Agree with the initial assessment. |
| OPPO | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| Nokia | Agree with the initial assessment. However, it would seem that the potential impact is in the UE features AI. |
| Lenovo, Motorola Mobility | Agree with the first part of the initial assessment, however related impacts could be discussed under 7.2.8 |
| Intel | Agree with Chairman assessment. Agree agenda item 7.2.8 |
| Ericsson | Agree with initial assessment |

#### R1-2005228 Response LS on criterion of pathloss measurement failure for power control of SRS for positioning RAN4, Ericsson

Related contributions:

* None in AI 5.

Initial assessment:

* Noted. No subsequent email discussion. Potential RAN1 specification impact can be discussed under 7.2.7.

|  |  |
| --- | --- |
| **Company** | **Views** |
| Samsung | Agree to the initial assessment. |
| FUTUREWEI | Agree with the initial assessment. |
| vivo | Agree with the initial assessment.  One typo,  Potential RAN1 specification impact can be discussed under 7.2.8 |
| CATT | Agree with the initial assessment. |
| OPPO | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| Nokia | Agree with the initial assessment, indeed AI where the impact is to be discussed should be 7.2.8, but our understanding is that there is no action needed in RAN1. |
| Lenovo, Motorola Mobility | Agree with the first part of the initial assessment, however potential impacts should be discussed under 7.2.8. |
| Intel | Agree with Chairman assessment. Agree agenda item 7.2.8 |
| Ericsson | Agree with initial assessment |

#### R1-2005218 Response LS on Exchange of information related to SRS-RSRP measurement resource configuration for UE-CLI RAN3, ZTE

Related contributions:

* [R1-2005518](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005518.zip) Draft reply LS on exchange of information related to SRS-RSRP measurement resource configuration for UE-CLI ZTE
* [R1-2005653](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005653.zip) Draft reply LS to RAN3 on inter-gNB exchange of SRS configuration CATT
* [R1-2006083](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006083.zip) [Draft] Reply LS on Exchange of information related to SRS-RSRP measurement resource configuration for UE-CLI Samsung
* [R1-2006450](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006450.zip) Draft reply to the LS on Exchange of information related to SRS-RSRP measurement resource configuration for UE-CLI Nokia, Nokia Shanghai-Bell
* [R1-2006451](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006451.zip) On inter-gNB exchange of SRS configuration for CLI measurement. Nokia, Nokia Shanghai-Bell
* [R1-2006944](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006944.zip) Discussion on Exchange of information related to SRS-RSRP measurement resource configuration for UE-CLI Huawei, HiSilicon

Initial assessment:

* There are specific actions to RAN1
* Noted; reply LS is necessary – target 8/20 for email approval.

|  |  |
| --- | --- |
| **Company** | **Views** |
| Samsung | Agree to the initial assessment. |
| vivo | Agree with the initial assessment. |
| CATT | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| Nokia | Agree with the initial assessment. |
| Lenovo, Motorola Mobility | Agree with the initial assessment. |
| Intel | Agree with Chairman assessment |
| Ericsson | Agree with initial assessment |

#### R1-2005219 LS on inter-frequency measurement requirement without MG RAN4, Huawei

Related contributions:

* None in AI 5.

Initial assessment:

* Noted; no subsequent email discussion.

|  |  |
| --- | --- |
| **Company** | **Views** |
| Samsung | Agree to the initial assessment. |
| vivo | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| Nokia | Agree with the initial assessment. |
| Lenovo, Motorola Mobility | Agree with the initial assessment. |
| Ericsson | Agree with initial assessment |

#### R1-2005226 Reply LS to RAN2 on dormant BWP RAN4, Futurewei

Related contributions:

* None in AI 5.

Initial assessment:

* Noted. No subsequent email discussion. Potential RAN1 specification impact can be discussed under 7.2.10.

|  |  |
| --- | --- |
| **Company** | **Views** |
| Samsung | Agree to the initial assessment. |
| FUTUREWEI | Agree with the initial assessment. |
| vivo | Agree with the initial assessment. |
| CATT | Agree with the initial assessment. |
| ZTE | We agree with the initial assessment. |
| Nokia | Agree with the initial assessment. |
| Intel | Agree with Chairman assessment. |
| Ericsson | Agree with initial assessment |

#### R1-2005231 LS on Sidelink Positioning for advanced V2X applications SAE AA TC, AT&T, LG Electronics

Related contributions:

* None.

Initial assessment:

* Noted. No subsequent email discussion.

|  |  |
| --- | --- |
| **Company** | **Views** |
| Samsung | Agree to the initial assessment. |
| FUTUREWEI | Was already handled by RAN. Agree to the initial assessment. |
| vivo | Agree with the initial assessment. |
| OPPO | Agree with the initial assessment, since the LS has been treated in RAN#88e. |
| ZTE, Sanechips | Agree with initial assessment. |
| Nokia | Agree with the initial assessment, LS trated y RAN#88e already. |
| Lenovo, Motorola Mobility | Agree with the initial assessment, LS was already discussed in RAN#88-e. |
| Intel | Agree with Chairman assessment. |
| LG Electronics | Agree with Chairman’s initial assessment. |
| Ericsson | Agree with initial assessment |

#### R1-2005232 Information regarding Harmonised Standard EN 303 687 (license-exempt 6 GHz operation) ETSI BRAN TC, Ericsson

Related contributions:

* None.

Initial assessment:

* Noted. No subsequent email discussion.

|  |  |
| --- | --- |
| **Company** | **Views** |
| Samsung | Agree to the initial assessment. |
| FUTUREWEI | Agree with the initial assessment. |
| vivo | Agree with the initial assessment. |
| Nokia | Agree with the initial assessment. |
| Intel | Agree with Chairman assessment. |
| Ericsson | Agree with Chairman's assessment. |

#### R1-2006952 LS on CSI-RS only beam correspondence RAN4, Huawei

Related contributions:

* [R1-2006939](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006939.zip) [Draft] Reply LS on CSI-RS only beam correspondence Huawei, HiSilicon
* [R1-2006079](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006079.zip) [Draft] Reply LS on CSI-RS only beam correspondence Samsung

Initial assessment:

* There are specific actions to RAN1
* Noted; reply LS is necessary – target 8/21 for email approval.

|  |  |
| --- | --- |
| **Company** | **Views** |
| Samsung | Agree to the initial assessment. |
| FUTUREWEI | Agree with the initial assessment. |
| vivo | Agree with the initial assessment. |
| CATT | Agree with the initial assessment. |
| OPPO | Agree with the initial assessment. |
| ZTE | We agree with the initial assessment. |
| Nokia | Agree with the initial assessment. |
| Lenovo, Motorola Mobility | Agree with the initial assessment. |
| Intel | Agree with initial assesemnt. LS reply is needed. Can be managed under 7.2.6. |
| Ericsson | Agree with initial assessment |

#### R1-2006953 LS on 3GPP NR Rel-16 URLLC and IIoT performance evaluation 5G Alliance for Connected Industries and Automation (5G-ACIA), Bosch, Ericsson

Related contributions:

* [R1-2006937](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006937.zip) Discussion on URLLC and IIoT performance evaluation in response to 5G-ACIA Huawei, HiSilicon

Initial assessment:

* **RAN plenary guidance:**
  + **RAN1 to open this in August and if possible, make some initial determination how much work this request entails, and provide that information to RAN. To revisit in RAN#89e and make some decisions.**
* Noted. Email discussion till 8/21 based on RAN plenary’s guidance

|  |  |
| --- | --- |
| **Company** | **Views** |
| Samsung | Agree to the initial assessment. |
| FUTUREWEI | Agree with the initial assessment. |
| vivo | Agree with the initial assessment. |
| CATT | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| Nokia | Agree with the initial assessment given the RAN guidance, although find it somewhat off that RAN asks RAN1 workload determination when this could have been determined directly by RAN as is done with all SID/WIDs. |
| Lenovo, Motorola Mobility | Agree with the initial assessment. |
| Intel | Agree with the initial assessment |
| Ericsson | Agree with initial assessment |

## Incoming LSs “CC: RAN1”

**All the following LSs are noted – no actions from RAN1 unless explicitly requested.**

* [R1-2005213](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005213.zip) LS reply to RAN4 on UE declaring beam failure due to LBT failures during active TCI switching RAN2, Ericsson
* [R1-2005214](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005214.zip) Reply LS on inter-frequency measurement without gap RAN2, Huawei
* [R1-2005215](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005215.zip) Reply LS on SCell dormancy requirement scope RAN2, Ericsson
* [R1-2005217](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005217.zip) Reply LS on Aperiodic SRS RAN3, Intel
  + [R1-2006932](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006932.zip) [Draft] Reply LS on AP SRS support Huawei, HiSilicon
* [R1-2005221](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005221.zip) LS on RAN4 IAB-MT feature list agreement RAN4, Qualcomm
* [R1-2005225](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005225.zip) LS on Rel-16 RAN4 UE features lists for NR and LTE RAN4, NTT DOCOMO
* [R1-2005229](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005229.zip) LS on CSI-RS based intra-frequency and inter-frequency Measurement definition RAN4, CATT
* [R1-2005230](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005230.zip) LS on impact of NTA offset on UE Rx-Tx time difference measurement RAN4, Ericsson

## Others

*Related to RAN2 LS in R1-2003258*

[R1-2006001](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006001.zip) Discussion on reply LS for maximum data rate calculation for NR sidelink OPPO

[R1-2006432](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006432.zip) [Draft] Reply LS on SL UE capability Ericsson

Note:

* **Already discussed in RAN1#101-e.**

Initial assessment:

* Noted; no subsequent email discussion.

|  |  |
| --- | --- |
| Company | Views |
| Samsung | Agree to the initial assessment. |
| FUTUREWEI | Agree with the initial assessment. |
| vivo | Agree with the initial assessment. |
| OPPO | In RAN1#101-e, this topic was allocated to V2X structure AI but it was not discussed due to finalization of TBS determination and remaining details for the 2nd stage SCI, which are needed to derive a response for maximum data rate calculation. Since those details in the V2X structure AI are finalized, we suggest to discuss this topic in this meeting as RAN2 needs our response to finalize their soft buffer determination work. We don’t mind this to be discussed under AI 5 or 7.2.4.1, although perhaps better here so not to take up an email thread from the V2X structure AI. |
| ZTE, Sanechips | Agree with the initial assessment. |
| Nokia | It appears that RAN2 needs RAN1 input to complete their spec and an email discussion would be needed. |
| Intel | Agree with the initial assessment |
| LG Eelectronics | In this meeting, we can resolve this issue under AI 7.2.4.1 (i.e., Physical layer structure for sidelink) and send the reply LS to RAN2. |
| Ericsson | The issue needs to be discussed in RAN1. A reply LS may be necessary. |

*Related to RAN2 LS in R1-2004936 and R1-2005070*

[R1-2006081](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006081.zip) [Draft] Reply LS on Rel-16 UE feature lists Samsung

[R1-2006758](C:\\Users\\wanshic\\OneDrive - Qualcomm\\Documents\\Standards\\3GPP Standards\\Meeting Documents\\TSGR1_102\\Docs\\R1-2006758.zip) Draft reply LS on updated Rel-16 LTE and NR parameter lists Qualcomm Incorporated

Initial assessment:

* Noted; to be managed under 7.2.11

|  |  |
| --- | --- |
| **Company** | **Views** |
| Samsung | Agree to the initial assessment. |
| FUTUREWEI | Agree with the initial assessment. |
| vivo | Agree with the initial assessment. |
| ZTE | We agree with the initial assessment. |
| Nokia | Agree with the initial assessment |
| Intel | Agree with the initial assessment |
| Ericsson | Agree with the initial assessment |

*Related to RAN2 LS in* *R1-2004922 on UL PC for NR-DC*

[R1-2006334](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006334.zip) [DRAFT] Reply LS on UL PC for NR-DC ZTE

Initial assessment:

* Noted; no subsequent email discussion. Any RAN1 impact can be discussed under 7.2.10.

|  |  |
| --- | --- |
| **Company** | **Views** |
| Samsung | Fine to discuss under 7.2.10. Related Samsung contribution is available there (R1-2006122) |
| vivo | Agree with the initial assessment. |
| ZTE | We agree with the initial assessment. |
| Nokia | Agree with the initial assesment |
| Intel | Agree with the initial assessment |
| Ericsson | Agree with the initial assessment |

# Conclusion

All incoming LSs are noted. The following are for the next phase of email discussion/approval:

* TBD

# References

[R1-2005203](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005203.zip) LS on Detail MIMO MAC CE operations RAN2, Samsung

[R1-2005204](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005204.zip) LS to RAN1 on signalling SFN bits for random access response RAN2, Ericsson

[R1-2005205](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005205.zip) LS reply on PUR transmission for NB-IoT/eMTC RAN2, Ericsson

[R1-2005206](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005206.zip) LS to RAN1 on physical layer related agreements RAN2, LG Electronics

[R1-2005207](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005207.zip) LS on capability bits for E-CID measurements RAN2, Huawei

[R1-2005208](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005208.zip) LS on UE capability xDD differentiation for SUL/SDL bands RAN2, Samsung

[R1-2005209](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005209.zip) LS on NR SRS carrier switching RAN2, Qualcomm

[R1-2005210](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005210.zip) Reply LS on DCP RAN2, Huawei

[R1-2005211](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005211.zip) LS on power sharing for LTE Mobility Enhancements RAN2, Ericsson

[R1-2005212](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005212.zip) Reply LS on XDD-FRX Differentiation RAN2, Qualcomm

[R1-2005213](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005213.zip) LS reply to RAN4 on UE declaring beam failure due to LBT failures during active TCI switching RAN2, Ericsson

[R1-2005214](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005214.zip) Reply LS on inter-frequency measurement without gap RAN2, Huawei

[R1-2005215](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005215.zip) Reply LS on SCell dormancy requirement scope RAN2, Ericsson

[R1-2005216](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005216.zip) LS Reply on UL RTOA reference time RAN3, Ericsson

[R1-2005217](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005217.zip) Reply LS on Aperiodic SRS RAN3, Intel

[R1-2005218](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005218.zip) Response LS on Exchange of information related to SRS-RSRP measurement resource configuration for UE-CLI RAN3, ZTE

[R1-2005219](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005219.zip) LS on inter-frequency measurement requirement without MG RAN4, Huawei

[R1-2005220](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005220.zip) LS on Clarification on UE behavior after receiving the MAC CE deactivation command for semi-persistent CSI reporting in NR-U RAN4, Nokia

[R1-2005221](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005221.zip) LS on RAN4 IAB-MT feature list agreement RAN4, Qualcomm

[R1-2005222](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005222.zip) LS on intra/inter-frequency measurement for NR positioning RAN4, Huawei

[R1-2005223](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005223.zip) Reply LS to RAN2 on UL-SL Prioritization RAN4, Futurewei

[R1-2005224](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005224.zip) LS on feasibility of ULFPTx modes and transparent TxD for certain UE implementations RAN4, Huawei

[R1-2005225](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005225.zip) LS on Rel-16 RAN4 UE features lists for NR and LTE RAN4, NTT DOCOMO

[R1-2005226](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005226.zip) Reply LS to RAN2 on dormant BWP RAN4, Futurewei

[R1-2005227](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005227.zip) LS on measurement gaps for NR positioning RAN4, Ericsson

[R1-2005228](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005228.zip) Response LS on criterion of pathloss measurement failure for power control of SRS for positioning RAN4, Ericsson

[R1-2005229](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005229.zip) LS on CSI-RS based intra-frequency and inter-frequency Measurement definition RAN4, CATT

[R1-2005230](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005230.zip) LS on impact of NTA offset on UE Rx-Tx time difference measurement RAN4, Ericsson

[R1-2005231](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005231.zip) LS on Sidelink Positioning for advanced V2X applications SAE AA TC, AT&T, LG Electronics

[R1-2005232](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005232.zip) Information regarding Harmonised Standard EN 303 687 (license-exempt 6 GHz operation) ETSI BRAN TC, Ericsson

[R1-2005315](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005315.zip) Discussion of RAN4 LS on UL-SL prioritization ZTE, Sanechips

[R1-2005324](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005324.zip) Draft reply on LS on Detail MIMO MAC CE operations vivo

[R1-2005325](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005325.zip) Draft reply on LS on clarification of transparent diversity feasibility vivo

[R1-2005326](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005326.zip) Draft reply on LS on Clarification on UE behavior after receiving the MAC CE deactivation command for semi-persistent CSI reporting in NR-U vivo

[R1-2005466](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005466.zip) Draft reply LS on NR SRS carrier switching ZTE

[R1-2005491](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005491.zip) Draft reply LS on feasibility of ULFPTx modes and transparent TxD for certain UE implementations ZTE

[R1-2005492](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005492.zip) Draft reply LS on detail MIMO MAC CE operations ZTE

[R1-2005505](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005505.zip) Discussion on reply LS on DCP vivo

[R1-2005518](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005518.zip) Draft reply LS on exchange of information related to SRS-RSRP measurement resource configuration for UE-CLI ZTE

[R1-2005553](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005553.zip) Discussion for NR SRS carrier switching on SUL ZTE

[R1-2005649](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005649.zip) Discussion on the LS from RAN2 on physical layer related agreements CATT

[R1-2005650](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005650.zip) Draft reply LS to RAN2 on MIMO MAC CE operations CATT

[R1-2005651](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005651.zip) Draft reply LS to RAN4 on feasibility of ULFPTx modes and transparent TxD for certain UE implementations CATT

[R1-2005652](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005652.zip) Draft reply LS to RAN2 on NR SRS carrier switching CATT

[R1-2005653](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005653.zip) Draft reply LS to RAN3 on inter-gNB exchange of SRS configuration CATT

[R1-2005654](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005654.zip) Discussion on NR SRS carrier switching on SUL carrier CATT

[R1-2005655](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005655.zip) Discussion on signaling SFN bits for random access response CATT

[R1-2005818](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005818.zip) [Draft] Reply LS on Detail MIMO MAC CE operations Lenovo, Motorola Mobility

[R1-2005994](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005994.zip) Discussion on LS on Detail MIMO MAC CE operations OPPO

[R1-2005995](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2005995.zip) Discussion on feasibility of ULFPTx modes and transparent TxD for certain UE implementations OPPO

[R1-2006001](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006001.zip) Discussion on reply LS for maximum data rate calculation for NR sidelink OPPO

[R1-2006077](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006077.zip) [Draft] Reply LS on remaining eMIMO issues Samsung

[R1-2006078](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006078.zip) [Draft] Reply LS on NR SRS carrier switching Samsung

[R1-2006079](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006079.zip) [Draft] Reply LS on CSI-RS only beam correspondence Samsung

[R1-2006080](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006080.zip) [Draft] Reply LS on clarification of transparent diversity feasibility Samsung

[R1-2006081](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006081.zip) [Draft] Reply LS on Rel-16 UE feature lists Samsung

[R1-2006082](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006082.zip) [Draft] Reply LS on UE capability xDD differentiation for SUL/SDL bands Samsung

[R1-2006083](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006083.zip) [Draft] Reply LS on Exchange of information related to SRS-RSRP measurement resource configuration for UE-CLI Samsung

[R1-2006185](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006185.zip) On LTE DAPS power coordination Qualcomm Incorporated

[R1-2006334](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006334.zip) [DRAFT] Reply LS on UL PC for NR-DC ZTE

[R1-2006335](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006335.zip) [DRAFT] Reply LS on UE capability xDD differentiation for SUL/SDL bands ZTE

[R1-2006336](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006336.zip) [DRAFT] Reply LS on power sharing for LTE mobility enhancements ZTE

[R1-2006337](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006337.zip) Discussion on uplink power sharing for LTE mobility enhancements ZTE

[R1-2006432](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006432.zip) [Draft] Reply LS on SL UE capability Ericsson

[R1-2006450](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006450.zip) Draft reply to the LS on Exchange of information related to SRS-RSRP measurement resource configuration for UE-CLI Nokia, Nokia Shanghai-Bell

[R1-2006451](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006451.zip) On inter-gNB exchange of SRS configuration for CLI measurement. Nokia, Nokia Shanghai-Bell

[R1-2006590](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006590.zip) Draft reply LS on Detail MIMO MAC CE operations LG Electronics

[R1-2006591](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006591.zip) Draft reply LS on feasibility of ULFPTx modes and transparent TxD for certain UE implementations LG Electronics

[R1-2006617](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006617.zip) Draft LS reply on feasibility of ULFPTx modes and transparent TxD for certain UE implementations Ericsson

[R1-2006647](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006647.zip) Discussion on LS to RAN1 on signaling SFN bits for random access response LG Electronics

[R1-2006679](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006679.zip) Draft LS response on Detail MIMO MAC CE operations Ericsson

[R1-2006757](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006757.zip) Discussion on SRS carrier switching Qualcomm Incorporated

[R1-2006758](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006758.zip) Draft reply LS on updated Rel-16 LTE and NR parameter lists Qualcomm Incorporated

[R1-2006759](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006759.zip) Discussion of the LS about cancelled ACK for MAC deactivation Qualcomm Incorporated

[R1-2006925](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006925.zip) Power sharing for LTE mobility enhancements Huawei, HiSilicon

[R1-2006926](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006926.zip) [DRAFT] LS reply to RAN2 on power sharing for LTE mobility enhancements Huawei, HiSilicon

[R1-2006931](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006931.zip) [Draft] Reply LS on E-CID measurement capability Huawei, HiSilicon

[R1-2006932](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006932.zip) [Draft] Reply LS on AP SRS support Huawei, HiSilicon

[R1-2006934](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006934.zip) Draft LS reply on UE capability xDD differentiation for SUL/SDL bands Huawei, HiSilicon

[R1-2006935](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006935.zip) Discussion on UE capability xDD differentiation for SUL/SDL bands Huawei, HiSilicon

[R1-2006937](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006937.zip) Discussion on URLLC and IIoT performance evaluation in response to 5G-ACIA Huawei, HiSilicon

[R1-2006938](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006938.zip) Draft reply LS on feasibility of UL FPT modes and transparent TxD for certain UE implementations Huawei, HiSilicon

[R1-2006940](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006940.zip) Discussion on UE behavior after receiving the MAC CE deactivation command for semi-persistent CSI reporting in NR-U Huawei, HiSilicon

[R1-2006943](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006943.zip) Draft reply LS on detail MIMO MAC CE operations Huawei, HiSilicon

[R1-2006944](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006944.zip) Discussion on Exchange of information related to SRS-RSRP measurement resource configuration for UE-CLI Huawei, HiSilicon

[R1-2006945](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006945.zip) Discussion on NR SRS carrier switching Huawei, HiSilicon

[R1-2006952](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006952.zip) LS on CSI-RS only beam correspondence RAN4, Huawei

[R1-2006939](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006939.zip) [Draft] Reply LS on CSI-RS only beam correspondence Huawei, HiSilicon

[R1-2006953](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_102\Docs\R1-2006953.zip) LS on 3GPP NR Rel-16 URLLC and IIoT performance evaluation 5G Alliance for Connected Industries and Automation (5G-ACIA), Bosch, Ericsson