**3GPP TSG-RAN WG1 #101-e R1-2004680**

**e-Meeting, May 25th – June 5th, 2020**

**Agenda item:** 5

**Source:** 3GPP TSG RAN1 Chairman

**Title:** RAN1#101-e preparation phase on LSs

**Document for:** Discussion/Decision

# Introduction

In this document, we will summarize contributions submitted to Agenda Item 5 of RAN1#101-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

None.

### NR

#### R1-2003252 LS to RAN1 on Guard Symbols in IAB RAN2, Samsung

Related contributions:

* [R1-2003352](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003352.zip) DraftT Reply LS on Guard Symbols in IAB vivo
* R1-2003542 About reply LS on IAB guard symbols ZTE, Sanechips
* R1-2004126 Discussions on guard symbols in IAB LG Electronics
* [R1-2004618](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004618.zip) Reply LS on Guard Symbols in IAB Huawei, HiSilicon
* [R1-2004619](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004619.zip) Discussion on Guard Symbols in IAB Huawei, HiSilicon

Initial assessment:

* There are specific actions to RAN1
* Noted; reply LS is necessary – target 5/27 for email approval, to be managed under 7.2.3.3.

**Proposed Conclusion:**

* Noted;
* Email approval till 5/27 w.r.t. reply LS to R1-2003252, to be managed under 7.2.3.3.

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| **Company** | **Views** |
| Nokia | Agree with the initial assessment |
| Samsung | Agree with the initial assessment |
| Huawei, HiSilicon | Agreed that it can be handled under 7.2.3.3 |
| ZTE/Sanechips | Agree with the initial assessment. |
| Ericsson | Agree |
| Intel | Agree with initial assessment. |

#### R1-2004685 LS on cell-specific signals/channel configurations RAN3, ZTE

Related contributions:

* [R1-2003543](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003543.zip) About reply LS for cell-specific signals/channels configurations in IAB ZTE, Sanechips
* [R1-2004620](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004620.zip) Reply LS on cell-specific signals/channel configurations Huawei, HiSilicon
* [R1-2004621](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004621.zip) Discussions on cell-specific signals/channel configurations of child IAB-DU Huawei, HiSilicon

Initial assessment:

* There are specific actions to RAN1
* Noted; reply LS is necessary – target 5/27 for email approval, to be managed under 7.2.3.3.

**Proposed Conclusion:**

* Noted;
* Email approval till 5/27 w.r.t. reply LS to R1-2004685, to be managed under 7.2.3.3.

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| **Company** | **Views** |
| Nokia | Agree with the initial assessment |
| Samsung | Agree with the initial assessment |
| Huawei, HiSilicon | Agreed that it can be handled under 7.2.3.3 |
| ZTE/Sanechips | Agree with the initial assessment. |
| Ericsson | Agree |
| Intel | Agree with initial assessment. |

#### R1-2003253 LS on the 3GPP work on the NR sidelink 5GAA WG4, Volkswagen

Related contributions:

* None

Initial assessment:

* Noted. No subsequent email discussion. Any potential RAN1 impact can be discussed under 7.2.4..

**Proposed Conclusion:**

* Noted. No subsequent email discussion. Any potential RAN1 impact can be discussed under 7.2.4..

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| **Company** | **Views** |
| Nokia | Agree with the initial assessment |
| Samsung | Agree with the initial assessment |
| OPPO | Agree with Chairman’s initial assessment. No LS reply is needed. |
| ZTE/Sanechips | Agree with the initial assessment. |
| MediaTek | Agree with the initial assessment. |
| Ericsson | We are fine with the initial assessment |
| Qualcomm | Agree with the initial assessment |

#### R1-2003255 LS on Cast type indication and MAC agreements RAN2 LG Electronics

Related contributions:

* [R1-2003350](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003350.zip) DRAFT Reply LS on Cast type indication vivo
* [R1-2003712](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003712.zip) About reply LS to RAN2 on cast type indication ZTE, Sanechips
* [R1-2004067](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004067.zip) Discussion on NR sidelink cast type indication OPPO
* [R1-2004599](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004599.zip) [Draft] LS reply to RAN2 on Cast type indication and MAC agreements Huawei, HiSilicon

Initial assessment:

* There are specific actions to RAN1
* Noted; reply LS is necessary – target 5/28 for email approval.

**Proposed Conclusion:**

* Noted;
* Email approval till 5/29 w.r.t. reply LS to R1-2003255, to be managed under 7.2.4.5

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| **Company** | **Views** |
| FUTUREWEI | Agree that a response is needed. Respond that cast type is **not** indicated in the SCI |
| CATT | Remaining work is on-going in RAN2, and reply LS is necessary. The response can be dicussed under 7.2.4.5. |
| Nokia | Agree with the initial assessment, can be discussed under 7.2.4 |
| Samsung | Agree with the initial assessment. OK to discuss under V2X agenda. |
| OPPO | Agree in principle that SL cast type indication in SCI should be discussed in RAN1. However, this topic is closely coupled with HARQ feedback option indication in SCI, which is part of SL procedure AI (7.2.4.5). It is suggested from our side that this LS and the topic are to be discussed under the SL procedure agenda (7.2.4.5). Once a conclusion/agreement is reached there, a response LS to RAN2 can be prepared after. |
| Huawei, HiSilicon | Agree with chairman’s proposed handling. |
| ZTE/Sanechips | Agree with the initial assessment. |
| MediaTek | Agree with the initial assessment. Can be discussed under 7.2.4. |
| Ericsson | The reply to the Q1 is “No” since RAN1 has not specified any mechanism to allow for distinguishing cast types in an unambiguous manner. Consequently, there is no need to reply to Q2. |
| Qualcomm | Currently, SCI can indicate cast type in some cases, e.g. groupcast with feedback option 1. Ongoing discussions in the PHY procedure AI could extend differentiation to all cases. For Q2, the UE uses cast type (groupcast type 1 or not based on SCI-2 format) to decided feedback type.  We share OPPO’s view that it would be best to prepare the LS after a conclusion is reached in PHY procedure, which has a deadline of 5/29. |

#### R1-2003256 LS to RAN1 to check the view on sidelink RAN2, Huawei

Related contributions:

* [R1-2003351](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003351.zip) DRAFT Reply LS to on sidelink HARQ process ID and RRC parameters vivo
* [R1-2003588](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003588.zip) Draft LS reply on checking the view on sidelink CATT
* [R1-2004068](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004068.zip) Discussion on RAN1's view on NR sidelink OPPO
* [R1-2004600](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004600.zip) [Draft] LS reply to RAN2 on check the view on sidelink Huawei, HiSilicon

Initial assessment:

* There are specific actions to RAN1
* Noted; reply LS is necessary – target 5/28 for email approval.

**Proposed Conclusion:**

* Noted;
* Email approval till 5/28 w.r.t. reply LS to R1-2003256, to be managed under 7.2.4.2.1

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| **Company** | **Views** |
| FUTUREWEI | Agree that a response is needed. The IIOT equation can be reused by substituting ‘slot’ for ‘symbol’ |
| CATT | Reply LS is necessary, and can be dicussed under 7.2.4.2.1. |
| Nokia | Reluctantly agree with the initial assessment, given that this LS left RAN2 in the first place and it requests RAN1 to respond. Can be discussed in 7.2.4. |
| Samsung | Agree with the initial assessment. OK to discuss under V2X agenda. |
| OPPO | Agree with Chairman’s initial assessment. Since the 3 questions in the LS cover across different SL topics in RAN1 (structure, procedure, mode 1), it is not clear the best place / AI to discuss the content of this LS. Perhaps, AI 5 is still the best place for this. |
| Huawei, HiSilicon | Agree with chairman’s proposed handling. There are several questions, making it awkward to handle under a specific WI agenda item. |
| ZTE/Sanechips | Agree with the initial assessment. |
| MediaTek | Agree with the initial assessment. Can be discussed under 7.2.4. |
| Ericsson | Regarding point 1) RAN1 sees no problem in reusing the equation. However, it is necessary to operate in terms of slots rather than symbols (i.e. use CURRENT\_slot instead of CURRENT\_symbol and have *periodicity* defined in terms of slots). RAN1 made the following related agreement:  **Agreements**:   * The HARQ process ID for each transmission in a resource corresponding to a SL configured grant is determined based on the formula used for UL configured grants.   + The mapping with the values of HPN in SCI is fixed for a TB, and is up to UE implementation.   Note: This corresponds to the HARQ process ID for the interaction between gNB and UE, if any distinction is made.  Regarding point 2), we believe that it is necessary to define one range per MCS table. It is otherwise not possible to configure the restrictions in a meaningful way. Related to this, RAN1 made the following agreement:  Agreements:   * In Mode-1, for a UE, for each of the configured MCS tables (for both DG & CG):   + If no MCS is configured, UE autonomously selects MCS from the full range of values     - Up to UE implementation     - FFS details for the MCS table   + If a single MCS is configured, the MCS is used by the UE   + If a range of two or more MCSs are configured, UE autonomously selects the MCS from the configured values     - Up to UE implementation   Regarding point 3), we do not see any reason to provide any feedback to RAN2. |
| Qualcomm | Agree with the initial assessment |

#### R1-2003257 LS on RLF Agreements RAN2, InterDigital

Related contributions:

* [R1-2003572](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003572.zip) Discussion on RAN2 LS on RLF Agreements LG Electronics

Initial assessment:

* Noted. No subsequent email discussion. Any potential RAN1 impact can be discussed under 7.2.4.

**Proposed Conclusion:**

* Noted. No subsequent email discussion. Any potential RAN1 impact can be discussed under 7.2.4

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| **Company** | **Views** |
| Nokia | Agree with the initial assessment, no reply LS needed. To be taken into account in 7.2.4 |
| Samsung | Agree with the initial assessment |
| OPPO | Agree with Chairman’s initial assessment. In our understanding, there is no RAN1 impact due to this RLF LS from RAN2. |
| Huawei, HiSilicon | Agree. |
| ZTE/Sanechips | Agree with the initial assessment. |
| MediaTek | Agree with the initial assessment. |
| Ericsson | We are fine with the initial assessment |
| Qualcomm | Agree with the initial assessment |

#### R1-2003254 Reply LS on consistent Uplink LBT failure detection mechanism RAN2, Nokia

Related contributions:

* [R1-2004007](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004007.zip) Discussion on RAN2 reply LS on consistent uplink LBT failure detection mechanism for NR-U LG Electronics
* [R1-2004502](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004502.zip) Discussion on the RAN2 Reply LS on consistent Uplink LBT failure detection mechanism Nokia, Nokia Shanghai Bell

Initial assessment:

* Noted. No subsequent email discussion/approvel for reply LS. Potential RAN1 specification impact can be discussed under NR-U.

**Proposed Conclusion:**

* Noted. No subsequent email discussion/approvel for reply LS. Potential RAN1 specification impact can be discussed under NR-U.

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| **Company** | **Views** |
| Nokia | Agree with the initial assessment, no reply LS needed. |
| Samsung | Agree with the initial assessment |
| OPPO | Agree with Mr. Chairment to discuss the spec impact under NRU AI 7.2.2.2.1 |
| Huawei, HiSilicon | Agree with Chair. It can be discussed in AI 7.2.2.2.1 |
| ZTE | Agree with the initial assessment. |
| MediaTek | Agree with the initial assessment. |
| Ericsson | We are fine with the initial assessment |
| Intel | Given the initial request from RAN2, and their latest clarification LS, no additional follow up is needed. However, some text should be added within TS 37.213 in order to indicate that a UE upon failing channel access, it shall report this to higher layers. Intel’s preference is to discuss the exact text within the channel access agenda item. |

#### R1-2003271 LS on UE declaring beam failure due to LBT failures during active TCI switching RAN4, Ericsson

Related contributions:

* [R1-2003272](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003272.zip) LS on timing reference cell adjustment under NR-U RAN4, ZTE
* [R1-2003838](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003838.zip) Draft reply LS on UE declaring beam failure due to LBT failures during active TCI switching ZTE, Sanechips
* [R1-2004092](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004092.zip) Discussion on UE declaring beam failure due to LBT failures during active TCI switching OPPO

Initial assessment:

* Noted. Email discussion/approval by 5/28. To be managed under 7.2.2.

**Proposed Conclusion:**

* Noted.
* Email discussion/approval for a potential reply LS to R1-2003271 by 5/28. To be managed under 7.2.2.2.2

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| **Company** | **Views** |
| FUTUREWEI | Initial assessment is fine; action is for either ran1 or ran2, we may decide to leave to ran2. |
| Nokia | Agree with the initial assessment, reply LS needed. |
| Samsung | Agree with FUTUREWEI, leave it up to RAN2. |
| OPPO | Agree with Mr. Chairman’s initial assessment. |
| Huawei, HiSilicion | The 1st tdoc and rest 2 tdocs are discussing different LS from RAN4. They should be discussed separately. |
| ZTE | Fine with the initial assessment for R1-2003271.  However the incoming LS R1-2003272 should be listed separately, and the following assessment can be considered:  No subsequent email discussion. Any potential RAN1 impact can be discussed under 7.2.2.2 |
| MediaTek | Agree with the initial assessment. |
| Ericsson | Discuss under sub-AI 7.2.2.2.2 |

#### R1-2003273 LS on transmit power of CSI-RS across different occasions RAN4, Huawei

Related contributions:

* [R1-2003837](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003837.zip) Draft reply LS on transmit power of CSI-RS across different occasions ZTE, Sanechips
* [R1-2003354](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003354.zip) Transmit power of CSI-RS across different occasions vivo
* [R1-2004008](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004008.zip) Discussion on RAN4 LS on transmit power of CSI-RS across different occasions for NR-U LG Electronics
* [R1-2004093](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004093.zip) Discusson on transmit power of CSI-RS across different occasions OPPO
* [R1-2004513](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004513.zip) [DRAFT] Reply LS on transmit power of CSI-RS across different occasions Nokia, Nokia Shanghai Bell
* [R1-2004624](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004624.zip) [DRAFT] Reply LS on transmit power of CSI-RS across different occasions Huawei, HiSilicon

Initial assessment:

* Noted. Email discussion/approval by 5/28. To be managed under 7.2.2.

**Proposed Conclusion:**

* Noted.
* Email approval for a reply LS to R1-2003273 by 5/28. To be managed under 7.2.2.2.2

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| **Company** | **Views** |
| FUTUREWEI | There is a clear action for RAN1, so should be handled as:  • There are specific actions to RAN1  • Noted; reply LS is necessary – target 5/28 for email approval. |
| Nokia | Agree with the initial assessment, reply LS needed |
| Samsung | OK to discuss under 7.2.2 |
| OPPO | Agree with Mr. Chairman’ initial assessment, also fine with FURTUREWEI’s proposal. |
| Huawei, HiSilicon | Agreed with Chair. It can be handled in AI7.2.2.1.2, same as RAN1#100bis-e. |
| ZTE | Agree to handle it under 7.2.2. Reply LS is necessary. |
| MediaTek | Agree with the initial assessment. |
| Ericsson | Discuss under 7.2.2.2.2 |

#### R1-2003259 LS on Intra-UE Prioritization RAN2, Nokia

Related contributions:

* [R1-2003345](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003345.zip) Draft reply LS on Intra-UE Prioritization ZTE
* [R1-2003347](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003347.zip) Discussion on Intra-UE Prioritization vivo
* [R1-2003348](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003348.zip) Draft reply LS on Intra-UE Prioritization vivo
* [R1-2003583](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003583.zip) Discussion on RAN2 LS on Intra-UE Prioritization Nokia, Nokia Shanghai Bell
* [R1-2003584](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003584.zip) [Draft] Reply LS on Intra-UE Prioritization Nokia, Nokia Shanghai Bell
* [R1-2003589](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003589.zip) Draft LS reply on Intra-UE Prioritization CATT
* [R1-2004123](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004123.zip) Discussion on Intra-UE prioritization OPPO
* [R1-2004124](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004124.zip) [Draft] Rely LS on Intra UE prioritization OPPO
* [R1-2004433](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004433.zip) Discussion on Intra-UE prioritization Qualcomm Incorporated

Initial assessment:

* There are specific actions to RAN1
* Noted; reply LS is necessary – target 5/29 for email approval. To be handled under 7.2.5.7

**Proposed Conclusion:**

* Noted.
* Email approval for a reply LS to R1-2003259 by 5/29. To be managed under 7.2.5.7

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| **Company** | **Views** |
| FUTUREWEI | The RAN2 request is important issue on its own, should only be handled under 7.2.5.7 if the email budget is increased as much to do there already. |
| CATT | It is critical and RAN2 is waiting for RAN1's reply for final decision. |
| Nokia | Agree with the initial assessment, reply LS needed. |
| Samsung | OK to discuss under 7.2.5.7 -- related contributions also can be found there. |
| OPPO | Agree with Chairman’s initial assessment. |
| Huawei, HiSilicon | gNB can configure the recoverySearchSpace as a CSS set with a lower search space set index to avoid the impact of DCI format 2\_6. gNB can handle the collision between DCI format 2\_6 and RAR addressed to C-RNTI by implementation, and there is no need of specification change.  We can send LS to RAN2 to inform the above information. |
| ZTE | Agree with the initial assessment. |
| Ericsson | We agree with initial assessment. |
| Intel | Agree with initial assessment. |

#### R1-2003260 LS on RAN2 DCP Open Issues RAN2, InterDigital

Related contributions:

* [R1-2003353](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003353.zip) Discussion on DCP Open Issues vivo
* [R1-2003484](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003484.zip) Draft reply LS on DCP Open Issues ZTE
* [R1-2003485](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003485.zip) Discussion on collision between DCP and RAR ZTE
* [R1-2003587](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003587.zip) Draft LS reply on DCP open issues CATT
* [R1-2003852](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003852.zip) Draft reply LS on RAN2 DCP open issues Samsung
* [R1-2004113](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004113.zip) Reply LS on RAN2 DCP Open Issues OPPO
* [R1-2004625](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004625.zip) Draft reply LS on RAN2 DCP Open Issues Huawei, HiSilicon
* [R1-2004626](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004626.zip) Discussion on the collision between DCP and RAR addressed to C-RNTI Huawei, HiSilicon

Initial assessment:

* There are specific actions to RAN1
* Noted; reply LS is necessary – target 5/28 for email approval.

**Proposed Conclusion:**

* Noted.
* Email approval for a reply LS to R1-2003260 by 5/28. To be managed under 7.2.7.1

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| **Company** | **Views** |
| CATT | Agree with Chairman’s assessement. Our view is that RAR should have higher priority over DCP. |
| Nokia | Reply LS needed, could be covered in AI 7.2.7.1 as this has been raised there. |
| Samsung | Agree with the initial assessment |
| OPPO | For RAR addressed to C-RNTI in other 4-step RACH or 2-step RACH cases, the gNB can also configure *ra-SearchSpace* for Type1-PDCCH CSS set with a smaller search space ID than the *SearchSpaceId* for WUS. Therefore, it can be easily by the gNB’s proper configuration to guarantee that PDCCH for RAR can be monitored with high priority than WUS thus legacy RAR procedure is not impacted. |
| ZTE | Agree with the initial assessment. |
| Ericsson | Agree with chairman’s assessment.  We propose to handle the LS reply in the UE PS AI 7.2.7.1, where some more Tdocs (including Ericsson contribution R1-2004357) provide input related to this LS. |
| Intel | Initial assessment plan looks fine |

#### R1-2003261 LS to RAN1 on agreements related to 2-step RACH RAN2, ZTE

Related contributions:

* None.

Initial assessment:

* Noted. No subsequent email discussion. Any potential RAN1 impact can be discussed under 7.2.1

**Proposed Conclusion:**

* Noted. No subsequent email discussion. Any potential RAN1 impact can be discussed under 7.2.1

|  |  |
| --- | --- |
| **Company** | **Views** |
| Nokia | No reply LS needed, to be taken into account in 7.2.1. |
| Samsung | Agree with the initial assessment |
| OPPO | Agree with Chairman's initial assessment. No LS reply is needed. |
| ZTE | Agree with the initial assessment. |
| Ericsson | We are fine with the initial assessment. |

#### R1-2003262 LS reply on uplink power control for NR-NR Dual-Connectivity RAN2, Apple

Related contributions:

* None.

Initial assessment:

* Noted. No subsequent email discussion. Any potential RAN1 impact can be discussed under 7.2.10.1

**Proposed Conclusion:**

* Noted. No subsequent email discussion. Any potential RAN1 impact can be discussed under 7.2.10.1

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| --- | --- |
| **Company** | **Views** |
| FUTUREWEI | Ok with no discussion and no reply is needed. |
| Nokia | No reply LS needed, to be taken into account in 7.2.10.1 where applicable |
| Samsung | Agree with the initial assessment |
| OPPO | Agree with the initial assessment that no email discussion is needed. |
| ZTE | Agree with the initial assessment.  The potential RAN1 impact can be discussed under 7.2.10.1 |
| MediaTek | Agree with the initial assessment. |
| Ericsson | Agree |

#### R1-2003265 LS on support for UL NR E-CID RAN3, Nokia

Related contributions:

* [R1-2004129](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004129.zip) Discussion on RAN3 LS on support for UL NR E-CID from LG Electronics

Initial assessment:

* Noted. No subsequent email discussion. Any potential RAN1 impact can be discussed under 7.2.8

**Proposed Conclusion:**

* Noted. No subsequent email discussion. Any potential RAN1 impact can be discussed under 7.2.8

|  |  |
| --- | --- |
| **Company** | **Views** |
| Nokia | Agree with the initial assessment, no reply LS needed. |
| Samsung | Agree with the initial assessment |
| OPPO | Agree with the initial assessment that no email discussion is needed. |
| ZTE | Agree with the initial assessment. |
| Ericsson | Agree with the RAN3 agreement. No further RAN1 impact expected. |

#### R1-2003258 LS on UE capability RAN2, OPPO

Related contributions:

* [R1-2004069](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004069.zip) Discussion on maximum data rate of NR sidelink OPPO
* [R1-2004601](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004601.zip) [Draft] LS reply to RAN2 on UE capability Huawei, HiSilicon

Initial assessment:

* Noted. No subsequent email discussion. Any potential RAN1 impact can be discussed under 7.2.11.4

**Proposed Conclusion:**

* Noted. No subsequent email discussion. Any potential RAN1 impact can be discussed under 7.2.4.1

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| --- | --- |
| **Company** | **Views** |
| Nokia | No reply LS needed, the RAN2 guidance impact to RAN1 perhaps be considered in 7.2.4 rather than 7.2.11.4. Even though the LS title says UE capability, it is more about the functionality. |
| Samsung | 7.2.4.1 seems suitable for corresponding discussion rather than 7.2.11.4 |
| OPPO | Semi-agree with Chairman’s initial assessment. Although the max data rate calculation is somewhat related to [Y] RBs per slot that can be decoded by a UE in FG [15-1], but the definition for the max data rate, which is what RAN2 needs, can be separately discussed without the need to finalise the value for [Y] RBs. So in the end, the discussion for this topic would be quite orthogonal to those need to be discussed in UE feature list for V2X in AI 7.2.11.4. Therefore, some slight preference from our side to handle this LS in AI 5, instead of taking time away from discussing million yellow parts in the V2X feature list. |
| Huawei, HiSilicon | This does not relate to the feature group list of 7.2.11.4, and requires some technical decisions on how to calculate overheads. The feature groups workload is already high and the effort (and GTW time) would be better spent on those issues.  We suggest handling this reply in a dedicated thread under AI 5. |
| ZTE/Sanechips | Agree with the initial assessment. |
| Ericsson | We agree with the initial assessment |
| Qualcomm | Agree with the initial assessment |

#### R1-2003268 Reply LS on CLI measurement and reporting RAN4, LG Electronics

Related contributions:

Initial assessment:

* Noted. No subsequent email discussion. Any potential RAN1 impact can be discussed under 7.2.11.11

**Proposed conclusion:**

* Noted. No subsequent email discussion. Any potential RAN1 impact can be discussed under 7.2.11.11

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| --- | --- |
| **Company** | **Views** |
| Nokia | Agree with the initial assesment |
| Samsung | Agree with the initial assessment |
| ZTE | Agree that subsequent email discussion is not needed. However, it is more proper to handle the potential impact, if any, under 7.2.12. |
| Ericsson | AGree |

#### R1-2003274 LS on NR-U SSB monitoring capabilities RAN4, Nokia

Related contributions:

* [R1-2003355](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003355.zip) Discussion on NR-U SSB monitoring capabilities vivo
* [R1-2003836](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003836.zip) Draft reply LS on NR-U SSB monitoring capabilities ZTE, Sanechips
* [R1-2003853](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003853.zip) Draft Response LS on NR-U SSB monitoring capabilities Samsung
* [R1-2004009](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004009.zip) Discussion on RAN4 LS on NR-U SSB monitoring capabilities LG Electronics
* [R1-2004094](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004094.zip) Discussion on NR-U SSB monitoring capabilities OPPO
* [R1-2004095](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004095.zip) [Draft] Reply to LS on NR-U SSB monitoring capabilities OPPO

Initial assessment:

* Noted. Reply LS is necessary. Email approval of reply LS by 5/28, to be managed under 7.2.11.2

**Proposed conclusion:**

* Noted.
* Email approval of reply LS to R1-2003274 by 5/28, to be managed under 7.2.2.2

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| --- | --- |
| **Company** | **Views** |
| FUTUREWEI | Also ok to handle under 7.2.2 like some of the other NR-U LS |
| Nokia | Agree that a reply LS is needed, but should perhaps be addressed in the NR-U AI 7.2.2.2 rather than in the UE features for NR-U AI |
| Samsung | Same view with FUTUREWEI |
| OPPO | Agree with FUTUREWEI that this could be handled under 7.2.2 in particular for the issue where UE does not support this capability. |
| ZTE | Agree with the initial assessment. OK to handle it either under 7.2.2 or under 7.2.11.2. |
| MediaTek | Reply LS is necessary. Better to handle it under 7.2.2 because it’s more related to NR-U function discussion. |
| Ericsson | We think that this LS should be discussed under NR-U AI 7.2.2.2.2 first. In our view, defining UE capabilities for N1 and N2 for cell-wide functionality that is even applicable in IDLE mode is highly undesirable. Our view is that the parameters N1 and N2 proposed by RAN4 should be fixed in specifications and not defined as a UE capability. |

#### R1-2003275 LS on RAN4 IAB-MT feature list agreement RAN4, Qualcomm

Related contributions:

* [R1-2004343](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004343.zip) Discussion on LS from RAN4 on IAB-MT feature list LG Electronics

Initial assessment:

* Noted; Any potential impact is to be handled under 7.2.11.1

**Proposed conclusion:**

* Noted; Any potential impact is to be handled under 7.2.11.3

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| --- | --- |
| **Company** | **Views** |
| Nokia | Agree with the initial assessment. The proper location is 7.2.11.3 |
| Huawei, HiSilicon | Agree that it handled under UE feature session. |
| AT&T | Agree that it is best to handle this in 7.2.11.3 |
| ZTE/Sanechips | Agree with the initial assessment. |
| Ericsson | Agree |
| Intel | Agree with initial assessment. |

#### R1-2004665 LS on Conflicting configurations RAN2, Huawei

Related contributions:

* [R1-2004428](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004428.zip) Response to LS on Conflicting Configurations Ericsson Inc.
* [R1-2004627](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004627.zip) Draft] Reply LS on Conflicting configurations Huawei, HiSilicon

Initial assessment:

* Noted; Reply LS is necessary, for email approval till 5/28, to be handled under 7.2.11.

**Proposed conclusion:**

* Noted;
* Email approval for a reply LS to R1-2004665 till 5/28 under AI5.

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| --- | --- |
| **Company** | **Views** |
| Nokia | Agree that a reply LS is needed, This could be addressed under 7.2.11, but perhaps a more proper place would be AI 5 |
| Samsung | Agree with the initial assessment |
| Huawei, HiSilicon | The LS on conflicting configurations is not relevant to UE features, but related to clarification on whether any relationship on RRC parameters from URLLC WI, NR-U WI and eMIMO WI, in order to complete the ASN.1 review of TS 38.331. Therefore, it seems section 5 is more appropriate for handling it. If it is impossible to include it in section 5, we see URLLC WI as a better place since all questions are related to URLLC, while NR-U and eMIMO are only relevant for part of the questions. |
| ZTE | Reply LS is needed. Since this LS is related with RRC configurations instead of UE feature, it is better to be handled under 7.2. |
| Ericsson | We do not see why this discussion is assigned to “7.2.11 NR Rel-16 UE Features” This RAN2 LS is about conflicting/confusing RRC parameter configurations originated by NR-U, URLLC, and eMIMO. The goal is to address 38.331 issues, not 38.306 issues. For example, the action in the LS is:  **To RAN1:**  **ACTION:** RAN2 respectfully asks RAN1 to answer the above questions, which are necessary for RAN2 to complete the ASN.1 review of TS 38.331.  Thus, in our view it makes more sense to handle this under one of: 7.2.2 (NR-U), 7.2.5(URLLC), or 7.2.6 (eMIMO). |
| Intel | AI 5 may be a more suitable place to discuss this. |

#### R1-2003267 LS on secondary DRX group for FR1+FR2 CA RAN4, Apple

Related contributions:

* None.

Initial assessment:

* Noted. No subsequent email discussion.

**Proposed conclusion:**

* Noted. No subsequent email discussion.

|  |  |
| --- | --- |
| **Company** | **Views** |
| Nokia | Agree with the initial assessment |
| Samsung | Agree with the initial assessment |
| OPPO | Agree with Chairman's initial assessment. No LS reply is needed. |
| ZTE | Agree with the initial assessment. |
| MediaTek | Agree with the initial assessment. |
| Ericsson | Agree |
| Intel | Initial assessment plan seems fine, as this is mainly for RAN2 to move forward with secondary DRX feature |

#### R1-2003269 LS on inter-frequency measurement requirement without MG RAN4, Huawei

Related contributions:

* None.

Initial assessment:

* Noted. No subsequent email discussion.

**Proposed conclusion:**

* Noted. No subsequent email discussion.

|  |  |
| --- | --- |
| **Company** | **Views** |
| Nokia | Agree with the initial assessment |
| Samsung | Agree with the initial assessment |
| ZTE | Agree with the initial assessment. |
| Ericsson | Agree |

#### R1-2003270 LS on pre-emption on CSI-RS for L3 measurement RAN4, MediaTek

Related contributions:

* [R1-2003349](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003349.zip) Discussion on premption on CSI-RS for L3 measurement vivo
* [R1-2003697](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003697.zip) Discussion on RAN4 LS on pre-emption of CSI-RS for L3 measurement MediaTek Inc.
* [R1-2004128](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004128.zip) Draft Reply LS on pre-emption on CSI-RS for L3 measurement LG Electronics
* [R1-2004581](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004581.zip) Pre-emption of CSI-RS for L3 mobility Nokia, Nokia Shanghai Bell
* [R1-2004629](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004629.zip) [Draft] LS on pre-emption on CSI-RS for L3 measurement Huawei, HiSilicon

Initial assessment:

* Noted. Email discussion with potentially a reply LS by 5/28.

**Proposed conclusion:**

* Noted
* Email discussion/approval for a potential draft LS to R1-2003270 by 5/28 under AI5.

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| --- | --- |
| **Company** | **Views** |
| FUTUREWEI | Ok to discuss during this meeting. |
| CATT | Ok to discuss in this meeting. Reply LS is not necessary, as gNB implementation can handle the situation mentioned in RAN4 LS. |
| Nokia | Agree with the initial assessment. |
| Samsung | Agree with the initial assessment. Our view is that no special handling is needed for the concerned case in the LS. |
| OPPO | We support to have a email discussion. In our view, the issue raised in the LS shall be resolved through network implementation and there is no RAN1 spec impact. |
| MediaTek | Agree with the initial assessment. Reply LS is needed if RAN1 makes any decision. |
| Ericsson | Agree |
| Intel | Agree with sending a reply.  In RAN1 #90bis, the following agreement was made:  Agreements:   * + - * For slot level monitoring periodicity, UE is not required to monitor preemption indication for a slot in which PDSCH is not scheduled       * UE is not required to monitor preemption indication in DRX slots       * UE is not required to monitor preemption indication for the deactivated DL BWP       * Note: not necessarily all of the above bullets will have spec impacts   Therefore, even for serving cell, if the UE is not scheduled, CSI-RS for L3 or CSI feedback could be pre-empted (in theory). Based on agreements, it is our understanding it is up to gNB to make sure to avoid impact to CSI-RS measurement due to pre-emption. The impact avoidance should be applicable for serving cell and also neighbour cells.  Intel’s preference is to leave to resolution up to gNB implementation, and try to not specify RRM requirements that assume UE to handle puncturing of part or all of CSI-RS resources for L3 mobility measurement by DCI format 2-1. |

#### R1-2004693 LS on Extending current NR operation to 71 GHz MulteFire AllianceTSG, InterDigital, Nokia

Related contributions:

* None

Initial assessment:

* Noted. No subsequent email discussion.

**Proposed conclusion:**

* Noted. No subsequent email discussion.

|  |  |
| --- | --- |
| **Company** | **Views** |
| MediaTek | Agree with the initial assessment. |
| Ericsson | Agree |

## Incoming LSs “CC: RAN1”

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

* [R1-2003263](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003263.zip) Reply LS on UL LBT failure recovery for the target cell RAN2, InterDigital
* [R1-2003264](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003264.zip) Response LS on SRS and SSB configuration for NR Positioning RAN2, Intel
* [R1-2003266](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003266.zip) Reply LS on TDD pattern exchange for NR-DC power control RAN3, vivo
* [R1-2003276](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003276.zip) LS on Rel-16 RAN4 UE features lists for NR and LTE RAN4, NTT DOCOMO
* [R1-2003277](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003277.zip) LS on SCell dormancy requirement scope RAN4, Ericsson
* [R1-2003278](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003278.zip) LS on UE capability for Tx switching between two uplink carriers RAN4, Apple
* [R1-2003279](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003279.zip) Reply LS on NR Positioning gNB measurement report range and granularity RAN4, Intel
* [R1-2003280](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2003280.zip) LS on report mapping for UE positioning measurement RAN4, Huawei
* [R1-2004571](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_101\Docs\R1-2004571.zip) LS on positioning SRS during DRX inactive time RAN2, Huawei

## Others

None.

# Conclusion

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

* Email approval till 5/27 w.r.t. reply LS to R1-2003252, to be managed under 7.2.3.3.
* Email approval till 5/27 w.r.t. reply LS to R1-2004685, to be managed under 7.2.3.3.
* Email approval till 5/29 w.r.t. reply LS to R1-2003255, to be managed under 7.2.4.5
* Email approval till 5/28 w.r.t. reply LS to R1-2003256, to be managed under 7.2.4.2.1
* Email discussion/approval for a potential reply LS to R1-2003271 by 5/28. To be managed under 7.2.2.2.2
* Email approval for a reply LS to R1-2003273 by 5/28. To be managed under 7.2.2.2.2
* Email approval for a reply LS to R1-2003259 by 5/29. To be managed under 7.2.5.7
* Email approval for a reply LS to R1-2003260 by 5/28. To be managed under 7.2.7.1
* Email approval of reply LS to R1-2003274 by 5/28, to be managed under 7.2.2.2
* Email approval for a reply LS to R1-2004665 till 5/28, to be handled under AI5.
* Email discussion/approval for a potential draft LS to R1-2003270 by 5/28 under AI5.

# References

R1-2003252 LS to RAN1 on Guard Symbols in IAB RAN2, Samsung

R1-2003253 LS on the 3GPP work on the NR sidelink 5GAA WG4, Volkswagen

R1-2003254 Reply LS on consistent Uplink LBT failure detection mechanism RAN2, Nokia

R1-2003255 LS on Cast type indication and MAC agreements RAN2 LG Electronics

R1-2003256 LS to RAN1 to check the view on sidelink RAN2, Huawei

R1-2003257 LS on RLF Agreements RAN2, InterDigital

R1-2003258 LS on UE capability RAN2, OPPO

R1-2003259 LS on Intra-UE Prioritization RAN2, Nokia

R1-2003260 LS on RAN2 DCP Open Issues RAN2, InterDigital

R1-2003261 LS to RAN1 on agreements related to 2-step RACH RAN2, ZTE

R1-2003262 LS reply on uplink power control for NR-NR Dual-Connectivity RAN2, Apple

R1-2003263 Reply LS on UL LBT failure recovery for the target cell RAN2, InterDigital

R1-2003264 Response LS on SRS and SSB configuration for NR Positioning RAN2, Intel

R1-2003265 LS on support for UL NR E-CID RAN3, Nokia

R1-2003266 Reply LS on TDD pattern exchange for NR-DC power control RAN3, vivo

R1-2003267 LS on secondary DRX group for FR1+FR2 CA RAN4, Apple

R1-2003268 Reply LS on CLI measurement and reporting RAN4, LG Electronics

R1-2003269 LS on inter-frequency measurement requirement without MG RAN4, Huawei

R1-2003270 LS on pre-emption on CSI-RS for L3 measurement RAN4, MediaTek

R1-2003271 LS on UE declaring beam failure due to LBT failures during active TCI switching RAN4, Ericsson

R1-2003272 LS on timing reference cell adjustment under NR-U RAN4, ZTE

R1-2003273 LS on transmit power of CSI-RS across different occasions RAN4, Huawei

R1-2003274 LS on NR-U SSB monitoring capabilities RAN4, Nokia

R1-2003275 LS on RAN4 IAB-MT feature list agreement RAN4, Qualcomm

R1-2003276 LS on Rel-16 RAN4 UE features lists for NR and LTE RAN4, NTT DOCOMO

R1-2003277 LS on SCell dormancy requirement scope RAN4, Ericsson

R1-2003278 LS on UE capability for Tx switching between two uplink carriers RAN4, Apple

R1-2003279 Reply LS on NR Positioning gNB measurement report range and granularity RAN4, Intel

R1-2003280 LS on report mapping for UE positioning measurement RAN4, Huawei

R1-2003345 Draft reply LS on Intra-UE Prioritization ZTE

R1-2003347 Discussion on Intra-UE Prioritization vivo

R1-2003348 Draft reply LS on Intra-UE Prioritization vivo

R1-2003349 Discussion on premption on CSI-RS for L3 measurement vivo

R1-2003350 DRAFT Reply LS on Cast type indication vivo

R1-2003351 DRAFT Reply LS to on sidelink HARQ process ID and RRC parameters vivo

R1-2003352 DraftT Reply LS on Guard Symbols in IAB vivo

R1-2003353 Discussion on DCP Open Issues vivo

R1-2003354 Transmit power of CSI-RS across different occasions vivo

R1-2003355 Discussion on NR-U SSB monitoring capabilities vivo

R1-2003484 Draft reply LS on DCP Open Issues ZTE

R1-2003485 Discussion on collision between DCP and RAR ZTE

R1-2003542 About reply LS on IAB guard symbols ZTE, Sanechips

R1-2003543 About reply LS for cell-specific signals/channels configurations in IAB ZTE, Sanechips

R1-2003572 Discussion on RAN2 LS on RLF Agreements LG Electronics

R1-2003583 Discussion on RAN2 LS on Intra-UE Prioritization Nokia, Nokia Shanghai Bell

R1-2003584 [Draft] Reply LS on Intra-UE Prioritization Nokia, Nokia Shanghai Bell

R1-2003587 Draft LS reply on DCP open issues CATT

R1-2003588 Draft LS reply on checking the view on sidelink CATT

R1-2003589 Draft LS reply on Intra-UE Prioritization CATT

R1-2003697 Discussion on RAN4 LS on pre-emption of CSI-RS for L3 measurement MediaTek Inc.

R1-2003712 About reply LS to RAN2 on cast type indication ZTE, Sanechips

R1-2003836 Draft reply LS on NR-U SSB monitoring capabilities ZTE, Sanechips

R1-2003837 Draft reply LS on transmit power of CSI-RS across different occasions ZTE, Sanechips

R1-2003838 Draft reply LS on UE declaring beam failure due to LBT failures during active TCI switching ZTE, Sanechips

R1-2003852 Draft reply LS on RAN2 DCP open issues Samsung

R1-2003853 Draft Response LS on NR-U SSB monitoring capabilities Samsung

R1-2004007 Discussion on RAN2 reply LS on consistent uplink LBT failure detection mechanism for NR-U LG Electronics

R1-2004008 Discussion on RAN4 LS on transmit power of CSI-RS across different occasions for NR-U LG Electronics

R1-2004009 Discussion on RAN4 LS on NR-U SSB monitoring capabilities LG Electronics

R1-2004067 Discussion on NR sidelink cast type indication OPPO

R1-2004068 Discussion on RAN1's view on NR sidelink OPPO

R1-2004069 Discussion on maximum data rate of NR sidelink OPPO

R1-2004092 Discussion on UE declaring beam failure due to LBT failures during active TCI switching OPPO

R1-2004093 Discusson on transmit power of CSI-RS across different occasions OPPO

R1-2004094 Discussion on NR-U SSB monitoring capabilities OPPO

R1-2004095 [Draft] Reply to LS on NR-U SSB monitoring capabilities OPPO

R1-2004113 Reply LS on RAN2 DCP Open Issues OPPO

R1-2004123 Discussion on Intra-UE prioritization OPPO

R1-2004124 [Draft] Rely LS on Intra UE prioritization OPPO

R1-2004126 Discussions on guard symbols in IAB LG Electronics

R1-2004127 Draft Reply LS on IAB-MT feature list LG Electronics

R1-2004128 Draft Reply LS on pre-emption on CSI-RS for L3 measurement LG Electronics

R1-2004129 Discussion on RAN3 LS on support for UL NR E-CID from LG Electronics

R1-2004343 Discussion on LS from RAN4 on IAB-MT feature list LG Electronics

R1-2004428 Response to LS on Conflicting Configurations Ericsson Inc.

R1-2004433 Discussion on Intra-UE prioritization Qualcomm Incorporated

R1-2004502 Discussion on the RAN2 Reply LS on consistent Uplink LBT failure detection mechanism Nokia, Nokia Shanghai Bell

R1-2004513 [DRAFT] Reply LS on transmit power of CSI-RS across different occasions Nokia, Nokia Shanghai Bell

R1-2004571 LS on positioning SRS during DRX inactive time RAN2, Huawei

R1-2004581 Pre-emption of CSI-RS for L3 mobility Nokia, Nokia Shanghai Bell

R1-2004599 [Draft] LS reply to RAN2 on Cast type indication and MAC agreements Huawei, HiSilicon

R1-2004600 [Draft] LS reply to RAN2 on check the view on sidelink Huawei, HiSilicon

R1-2004601 [Draft] LS reply to RAN2 on UE capability Huawei, HiSilicon

R1-2004618 [Draft] Reply LS on Guard Symbols in IAB Huawei, HiSilicon

R1-2004619 Discussion on Guard Symbols in IAB Huawei, HiSilicon

R1-2004620 [Draft] Reply LS on cell-specific signals/channel configurations Huawei, HiSilicon

R1-2004621 Discussions on cell-specific signals/channel configurations of child IAB-DU Huawei, HiSilicon

R1-2004624 [DRAFT] Reply LS on transmit power of CSI-RS across different occasions Huawei, HiSilicon

R1-2004625 Draft reply LS on RAN2 DCP Open Issues Huawei, HiSilicon

R1-2004626 Discussion on the collision between DCP and RAR addressed to C-RNTI Huawei, HiSilicon

R1-2004627 [Draft] Reply LS on Conflicting configurations Huawei, HiSilicon

R1-2004629 [Draft] Reply LS on pre-emption on CSI-RS for L3 measurement Huawei, HiSilicon

R1-2004665 LS on Conflicting configurations RAN2, Huawei