**3GPP TSG-RAN WG1 #105-e R1-210xxxx**

**e-Meeting, May 10th – 27th, 2021**

**Agenda item:** 5

**Source:** 3GPP TSG RAN1 Chair

**Title:** RAN1#105-e preparation phase on LSs

**Document for:** Discussion/Decision

# Introduction

In this document, we will summarize contributions submitted to Agenda Item 5 of RAN1#105-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

#### R1-2104158 Reply LS on timing of neighbor cell RSS-based measurements RAN2, Qualcomm

Related contributions:

* None.

Initial assessment:

* Noted. No subsequent email discussion.

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| --- | --- |
| **Company** | **Views** |
| Nokia | Agree with the initial assessment |
| Samsung | Agree with the initial assessment |
| LG | Agree with the initial assessment |

#### R1-2104159 Reply LS related to RSS based RSRQ for LTE-MTC RAN2, Huawei

Related contributions:

* [R1-2104709](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104709.zip) Discussion on RAN2 reply LS on RSS based RSRQ ZTE
* [R1-2104818](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104818.zip) Discussion on RSS-based measurements Qualcomm Incorporated
* [R1-2105941](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105941.zip) Discussion on RSS based RSRQ for LTE-MTC Huawei, HiSilicon

Initial assessment:

* Noted. Email discussion is necessary, including a possible LS, till 5/24 (name TBD, Huawei). To be handled under 6.2.1

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| --- | --- |
| **Company** | **Views** |
| Nokia | Agree with the initial assessment |
| Samsung | Agree with the initial assessment |
| ZTE | Agree with the initial assessment |
| Huawei, HiSilicon | Agree with the initial assessment |
| LG | Agree with the initial assessment |

### NR

#### R1-2104155 LS on PDB for new 5QI SA2, Ericsson

Related contributions:

* [R1-2104726](C:\\Users\\wanshic\\OneDrive - Qualcomm\\Documents\\Standards\\3GPP Standards\\Meeting Documents\\TSGR1_105\\Docs\\R1-2104726.zip) Discussion on SA2 LS on new 5QI for NTN Ericsson
* [R1-2104749](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104749.zip) Draft reply LS on New Standardized 5QIs for 5G-AIS (Advanced Interactive Services) OPPO
* [R1-2104774](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104774.zip) Discussion on LS on PDB for new 5Q OPPO
* [R1-2105199](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105199.zip) Discussion on LS on PDB for new 5QI ZTE
* [R1-2105930](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105930.zip) Discusion on PDB for new 5QI Huawei, HiSilicon
* [R1-2105948](C:\\Users\\wanshic\\OneDrive - Qualcomm\\Documents\\Standards\\3GPP Standards\\Meeting Documents\\TSGR1_105\\Docs\\R1-2105948.zip) [Draft] LS response on New Standardized 5QIs for 5G-AIS Qualcomm Inc.

Initial assessment:

* Noted. A reply LS is necessary – email discussion/approval till 5/24 (name TBD, Ericsson). To be handled under 8.4

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| --- | --- |
| **Company** | **Views** |
| Nokia | Agree with the initial assessment |
| OPPO | For the incoming LS (R1-2104155), as it is related to new 5QI for 5G satellite access, we generally agree with the initial assessment to handle this incoming LS under AI 8.4. If possible, it is even better matched to AI 8.4.4.  However, for the two draft reply LS in 4749 and 5948, they are related to SA4’s LS (R1-2102308) that we received but failed to reply during the last meeting, but we agreed try to provide a reply within this meeting. For this particular topic, we can apply similar handling as in the last meeting to be managed under 8.14. |
| Samsung | Agree with the initial assessment |
| ZTE | Agree with the initial assessment |
| Huawei, HiSilicon | Agree with the assessment |
| CATT | Agree with the assessment |
| Tencent | Agree with OPPO that the incoming LS (R1-2104155) is related to new 5QI for 5G satellite access and we agree with the initial assessment to handle this incoming LS under AI 8.4.  However, for the two draft reply LS in 4749 and 5948, they are related to SA4’s LS (R1-2102308) that we received but failed to reply during the last meeting, but we agreed try to provide a reply within this meeting also in the first week. For this particular topic, we can apply similar handling as in the last meeting to be managed under 8.14. A separate LS reply is better as Satellite and AIS are totally different topics in SA2. |
| LG | R1-2104749 and R1-2105948 are not related to NTN, but XR. Thus, we recommend those two Tdocs to be handled under AI 8.14. For other Tdocs, we agree with initial assessment. |

#### R1-2104157 Reply LS on TCI state indication at Direct SCell activation RAN2, MediaTek

Related contributions:

* None

Initial assessment:

* Noted. No subsequent email discussion.

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| --- | --- |
| **Company** | **Views** |
| Nokia | Agree with the initial assessment |
| Samsung | Agree with the initial assessment |
| ZTE | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with initial assessment. |
| Apple | Agree with initial assessment. |
| CATT | Agree with the assessment. |
| MediaTek | Agree with the initial assessment. |

#### R1-2104160 Reply LS to RAN1 on SL HARQ-ACK reporting to the gNB RAN2, Huawei

Related contributions:

* None

Initial assessment:

* Noted. No subsequent email discussion

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| **Company** | **Views** |
| Nokia | Agree with the initial assessment, no reply LS needed either. |
| Samsung | Agree with the initial assessment |
| vivo | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with the initial assessment |
| CATT | Agree with the assessment. |
| MediaTek | Agree with the initial assessment. |
| LG Electronics | We agree that there is no need for the reply LS. However, as it seems necessary to update the RAN1 specification to reflect the RAN2 agreement included in this LS, the relevant discussion can be taken under AI 7.2.4. |

#### R1-2104161 LS on RI bit width for Cat5 UE in EN-DC mode RAN2, Nokia

Related contributions:

* [R1-2104226](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104226.zip) On RI bit width for Cat5 UE in EN-DC mode Nokia, Nokia Shanghai Bell
* [R1-2104578](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104578.zip) Draft reply LS on RI bit width for Cat5 UE in EN-DC ZTE
* [R1-2104640](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104640.zip) Draft reply LS on Cat-5 with EN-DC Qualcomm Incorporated
* [R1-2105280](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105280.zip) Draft reply LS on RI bit width for Cat5 UE in EN-DC mode Samsung
* [R1-2105446](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105446.zip) Draft reply LS on RI bit width for Cat5 UE in EN-DC mode vivo
* [R1-2105935](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105935.zip) Discussion on RI bit width for Cat5 UE in EN-DC mode Huawei, HiSilicon

Initial assessment:

* Noted; a reply LS is necessary – email discussion/approval till 5/24 (name TBD, Nokia)

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| --- | --- |
| **Company** | **Views** |
| Nokia | Agree with the initial assessment. Nokia offers Karri Ranta-aho as the person to moderate the thread. |
| Samsung | Agree with the initial assessment |
| vivo | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with the initial assessment. |
| CATT | Agree with the assessment. |
| MediaTek | Agree with the initial assessment. |

#### R1-2104162 LS on the Intra-band and Inter-band (NG)EN-DC/NE-DC Capabilities RAN2, ZTE

Related contributions:

* [R1-2104319](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104319.zip) Discussion on the Intra-band and Inter-band (NG)EN-DC NE-DC Capabilities ZTE
* [R1-2104320](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104320.zip) [DRAFT] Reply LS on the Intra-band and Inter-band (NG)EN-DC NE-DC Capabilities ZTE
* [R1-2104466](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104466.zip) Discussion on the Intra-band and Inter-band (NG)EN-DC/NE-DC Capabilities CATT
* [R1-2105451](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105451.zip) Draft reply LS on the Intra-band and Inter-band (NG)EN-DC/NE-DC Capabilities vivo
* [R1-2105932](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105932.zip) Discussion on EN-DC/NE-DC UE capabilities Huawei, HiSilicon

Initial assessment:

* Noted; a reply LS is necessary – email discussion/approval till 5/25 (name TBD, ZTE)

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| **Company** | **Views** |
| Nokia | Agree with the initial assessment |
| Samsung | Agree with the initial assessment |
| vivo | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| CATT | Agree with the assessment. |
| MediaTek | Agree with the initial assessment. |
| LG | We agree with the initial assessment |

#### R1-2104163 LS to RAN1 on random value generation for RMTC-SubframeOffset RAN2, Apple

Related contributions:

* [R1-2104459](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104459.zip) Discussion on LS from RAN2 on random value generation for RMTC-SubframeOffset Ericsson
* [R1-2104838](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104838.zip) Draft reply LS on RMTC-subframeoffset ZTE, Sanechips
* [R1-2104839](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104839.zip) Discussion on the random value generation for RMTC-subframeoffset ZTE, Sanechips
* [R1-2105271](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105271.zip) Discussion on RAN2 LS on random value generation for RMTC-SubframeOffset Nokia, Nokia Shanghai Bell
* [R1-2105279](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105279.zip) Discussion on the random value generation for RMTC-SubframeOffset Samsung
* [R1-2105414](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105414.zip) Discussion on RAN2 LS on random value generation for RMTC-SubframeOffset LG Electronics
* [R1-2105450](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105450.zip) Draft Reply LS on random value generation for RMTC-SubframeOffset vivo
* [R1-2105933](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105933.zip) Discussion on random value generation for rmtc-SubframeOffset Huawei, HiSilicon
* R1-2105080 Clarification on NR-U RRM measurement operation Apple

Initial assessment:

* Noted. a reply LS is necessary – email discussion/approval till 5/24 (name TBD, Apple). To be handled under 7.2.2

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| --- | --- |
| **Company** | **Views** |
| Nokia | Agree with the initial assessment. |
| Samsung | Agree with the initial assessment |
| vivo | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| Apple | Agree with the initial assessment. Hong can moderate email discussion.  We added our relevant contribution R1-2105080 into contribution list, which was submitted in NR-U maitainance agenda AI 7.2.2. |
| MediaTek | Agree with the initial assessment. |
| LG | Agree with initial assessment |

#### R1-2104164 LS on fallback applicability for UE FeatureSetDownLinkPerCC capability fields RAN2, Ericsson

Related contributions:

* [R1-2104579](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104579.zip) Draft reply LS on fallback applicability for FeatureSetDownLinkPerCC capability fields ZTE
* [R1-2105281](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105281.zip) Draft reply LS on fallback applicability for UE FeatureSetDownLinkPerCC capability fields Samsung
* [R1-2105445](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105445.zip) Draft reply LS on fallback applicability for UE FeatureSetDownLinkPerCC capability fields vivo
* [R1-2105811](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105811.zip) Discussion regarding LS reply on fallback applicability for UE FeatureSetDownLinkPerCC capability fields Ericsson
* [R1-2105814](file:///C:\\Users\\wanshic\\OneDrive%20-%20Qualcomm\\Documents\\Standards\\3GPP%20Standards\\Meeting%20Documents\\TSGR1_105\\Docs\\R1-2105814.zip)       Remaining issues on NR Rel-16 UE features          Nokia, Nokia Shanghai Bell
* [R1-2105934](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105934.zip) Discussion on fallback applicability for UE FeatureSetDownLinkPerCC capability fields Huawei, HiSilicon

Initial assessment:

* Noted; reply LS is necessary – target 5/24 for email discussion/approval (name TBD, Ericsson). To be handled under 7.2.11.

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| --- | --- |
| **Company** | **Views** |
| Nokia | Support the initial assessment, LS response needed, to be handled in 7.2.11.  Thanks for adding the Nokia Tdoc under 7.2.11 to the list. |
| OPPO | We agree with the initial assessment. |
| Samsung | Agree with the initial assessment |
| vivo | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| CATT | Agree with the assessment. |
| MediaTek | Agree with the initial assessment. |
| LG | Agree with initial assessment |

#### R1-2104165 LS on broadcast session delivery and MCCH design RAN2, Huawei

Related contributions:

* [R1-2104576](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104576.zip) [DRAFT]   Reply LS on broadcast session delivery and MCCH design ZTE
* [R1-2104597](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104597.zip) Discussion on RAN2 LS on broadcast session delivery and MCCH design CMCC
* [R1-2105927](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105927.zip) Discussion on LS on broadcast session delivery and MCCH design Huawei, HiSilicon, CBN

Initial assessment:

* Noted; discussion is necessary including a possible LS. Can be taken as part of the normative work. To be handled under 8.12

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| --- | --- |
| **Company** | **Views** |
| CMCC | Other companies also discuss the questions from this RAN2 LS in their contributions under 8.12.3. Therefore, we think this discussion can be handled under 8.12.3 along with other contributions. |
| Nokia | Agree with the initial assessment. 8.12.3 seems like the natural home for the discussion. |
| Samsung | Agree with the initial assessment |
| vivo | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with the assessment. Discussion is definitely needed before considering a possible LS reply. |
| CATT | Agree with the assessment. This LS is critical, but no rush to reply it before RAN1 has chance to discuss about and making decision. |
| LG | Generally agree with initial assessment. We also think this discussion can be handled under 8.12.3 along with other contributions. |

#### R1-2104166 Reply LS on Introduction of DL 1024QAM for NR RAN2, Ericsson

Related contributions:

* None

Initial assessment:

* Noted; no subsequent email discussion. To be taken into account as part of Rel-17 UE feature discussion.

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| --- | --- |
| **Company** | **Views** |
| Nokia | Agree that no action needed in RAN1#105, but in addition to UE feature discussion the endorsed CR needs to be updated with the proper RRC parameter name in due course when the time for this comes. |
| Samsung | Agree with the initial assessment |
| vivo | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| CATT | Agree with the assessment. |
| MediaTek | Agree with the initial assessment. |

#### R1-2104168 Reply LS on PUCCH and PUSCH repetition RAN4, Qualcomm

Related contributions:

* [R1-2105447](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105447.zip) Discussion on RAN4 Reply LS on PUCCH and PUSCH repetition vivo

Initial assessment:

* Noted; no subsequent email discussion. To be taken into account as part of the normative work under 8.8.

|  |  |
| --- | --- |
| **Company** | **Views** |
| Nokia | Agree with the initial assessment. |
| Samsung | Agree with the initial assessment |
| vivo | Agree with the initial assessment. Depending on the discussion in 8.8, additional question may be asked to RAN4. |
| ZTE | Agree with the initial assessment. |
| CATT | Agree with the assessment. |
| MediaTek | Agree with the initial assessment. |
| LG | Agree with initial assessment |

#### R1-2104169 Second reply LS on Beam switching gaps for Multi-TRP UL transmission RAN4, Nokia

Related contributions:

* None

Initial assessment:

* Noted; on subsequent email discussion. To be taken into account as part of the normative work under 8.1.

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| --- | --- |
| **Company** | **Views** |
| Nokia | Agree with the initial assessment. |
| Samsung | Agree with the initial assessment |
| vivo | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with initial assessment (typo ‘on’ 🡪 ‘no’) in the chair’s proposal. |
| CATT | Agree with the assessment. |
| LG | Agree with initial assessment |

#### R1-2104170 Reply LS on temporary RS for efficient SCell activation in NR CA RAN4, Huawei

Related contributions:

* None.

Initial assessment:

* Noted; on subsequent email discussion. To be taken into account as part of the normative work under 8.13.

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| --- | --- |
| **Company** | **Views** |
| Nokia | Agree with the initial assessment, to be handled in 8.13.3. |
| Samsung | Agree with the initial assessment |
| vivo | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with initial assessment (typo ‘on’ 🡪 ‘no’) in the chair’s proposal. |
| Apple | Agree with the initial assessment. |
| CATT | Agree with the assessment. |
| MediaTek | Agree with the initial assessment. |

#### R1-2104171 Reply LS on UE transmit timing error RAN4, Huawei

Related contributions:

* None.

Initial assessment:

* Noted; on subsequent email discussion. To be taken into account as part of the normative work under 8.3.

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| --- | --- |
| **Company** | **Views** |
| Nokia | Agree with the initial assessment. |
| OPPO | In our view, the “RAN4 common understanding on Te” creates an inconsistency in current 38.133 text regarding to whether the reference point in TA adjustment should be “ideal DL reception timing” (driven by RAN4 common understanding on Te) or “detected first arrival path” (described by current 38.133 text). It seems RAN4 is well aware of the problem. Hopefully the RAN4 “clarification in the future” for the reference point definition would happen soon.  Anyhow the message from RAN4 is clear, and we are fine with Chairman’s assessment. |
| Samsung | Agree with the initial assessment |
| vivo | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with the assessment. |
| Apple | Agree with initial assessment. |
| CATT | Agree with the assessment.There is a typo: ‘on’ -> ‘no’. |
| LG | Agree with initial assessment |

#### R1-2104172 LS reply on NTN UL time and frequency synchronization requirements RAN4, CATT

Related contributions:

* None.

Initial assessment:

* Noted; on subsequent email discussion. To be taken into account as part of the normative work under 8.4.

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| --- | --- |
| **Company** | **Views** |
| Nokia | Agree with the initial assessment. |
| Samsung | Agree with the initial assessment |
| vivo | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| Huawei | Agree with assessment. |
| CATT | Agree with the assessment. |

#### R1-2104173 Reply LS on maximum/minimum channel bandwidths and channelization for NR operation in 52.6 to 71 GHz RAN4, Intel

Related contributions:

* None.

Initial assessment:

* Noted; on subsequent email discussion. To be taken into account as part of the normative work under 8.2.

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| --- | --- |
| **Company** | **Views** |
| Nokia | Agree with the initial assessment. |
| Samsung | Agree with the initial assessment |
| vivo | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with Chair’s assessment |
| Apple | Agree with the initial assessment. |
| CATT | Agree with the assessment. |
| LG | Agree with initial assessment |

#### R1-2104229 Reply LS on UE Sub-grouping for Paging Enhancement RAN2, MediaTek

Related contributions:

* [R1-2104467](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104467.zip) Discussion on RAN2 Reply LS on UE Sub-grouping for Paging Enhancement CATT
* [R1-2104642](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104642.zip) Draft LS reply to RAN2 on UE Sub-grouping for Paging Enhancement Qualcomm Incorporated
* [R1-2105385](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105385.zip) [Draft] Reply LS on UE Sub-grouping for Paging Enhancement MediaTek Inc.
* [R1-2105649](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105649.zip) Discussion on LS about paging sub-grouping ZTE, Sanechips

Initial assessment:

* Noted; on dedicated email discussion. To be taken into account as part of the normative work under 8.7 (including a possible LS)

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| --- | --- |
| **Company** | **Views** |
| Nokia | Agree with the initial assessment. |
| Samsung | Agree with the initial assessment |
| vivo | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment |
| Huawei, HiSilicon | We are fine with the initial assessment. |
| Apple | Agree with chair’s initial assessment. |
| CATT | Agree with the assessment. |
| MediaTek | Agree with the initial assessment. |
| LG | Agree with initial assessment |

#### R1-2104230 LS on TA pre-compensation RAN2, OPPO

Related contributions:

* [R1-2104775](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104775.zip) Discussion on LS on TA pre-compensation OPPO
* [R1-2105198](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105198.zip) Discussion on LS on TA pre-compensation ZTE
* [R1-2105481](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105481.zip) Draft reply LS on TA pre-compensation LG Electronics
* [R1-2105931](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105931.zip) Discussion on TA pre-compensation Huawei, HiSilicon

Initial assessment:

* Noted; email discussion/approval is necessary, till 5/25 (name TBD, OPPO). To be handled under 8.4.

|  |  |
| --- | --- |
| **Company** | **Views** |
| Nokia | Agree with the initial assessment. |
| OPPO | Generally agree with the initial assessment. If possible, since the topic is closely related to UL timing, this LS discussion can be categorised under AI 8.4.2. |
| Samsung | Agree with the initial assessment |
| vivo | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree that email discussion is needed but this thread can be started in the second week since the reply is dependent on the progress of the discussions on time/freqeuency synchronization in 8.4. |
| CATT | Agree with the assessment. |
| LG | Agree with initial assessment |

#### R1-2104559 LS on R16 V2X for PUCCH reporting and for minimum time gap RAN2, OPPO

Related contributions:

* [R1-2104641](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104641.zip) Draft reply to RAN2 on minimum time gap Qualcomm Incorporated
* [R1-2104753](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104753.zip) Discussion on PUCCH reporting and for minimum time gap OPPO
* [R1-2104754](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104754.zip) Draft reply LS on R16 V2X for PUCCH reporting and for minimum time gap OPPO
* [R1-2104843](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104843.zip) Discussion on the LS from RAN2 on PUCCH reporting and for minimum time gap CATT, GOHIGH
* [R1-2104883](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104883.zip) Draft reply LS on R16 V2X for PUCCH reporting and for minimum time gap Intel Corporation
* R1-2104996 Draft reply LS on R16 V2X for PUCCH reporting and for minimum time gap Intel Corporation

Withdrawn

* [R1-2105282](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105282.zip) Draft reply LS on R16 V2X for PUCCH reporting and for minimum time gap Samsung
* [R1-2105449](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105449.zip) Draft Reply LS on R16 V2X for PUCCH reporting and for minimum time gap vivo
* [R1-2105898](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105898.zip) [Draft] LS on PUCCH reporting and minimum time gap for V2X Ericsson
* [R1-2105899](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105899.zip) Discussion on RAN2 LS on PUCCH reporting and for minimum time gap for V2X Ericsson
* [R1-2105922](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105922.zip) Discussion on HARQ feedback reporting and minimum time gap Huawei, HiSilicon

Initial assessment:

* Noted; email discussion/approval is necessary, till 5/25 (name TBD, OPPO). To be handled under 7.2.4.

|  |  |
| --- | --- |
| **Company** | **Views** |
| Nokia | Agree that an email discussion is necessary, whether a reply LS is necessary depends on the outcome of this discussion. |
| OPPO | Agree with the initial assessment |
| Samsung | Agree with the initial assessment |
| vivo | Agree with the initial assessment. |
| ZTE | We don’t think the email discussion is necessary. In RAN2’s incoming LS, RAN1’s concerns have been taken into account. Considering RAN2’s concerns on LCP, and the flexibility of resource pool selection, current RAN2’s spec can be acceptable.  “RAN2 understands that it is not aligned with RAN1 agreement made in RAN1 #100-e meeting and thus discussed the issue in RAN2#113, but with no consensus to change MAC specification to align with RAN1 agreement.” |
| Huawei, HiSilicon | As ZTE indicate, there may or may not be any spec change or reply LS. We are OK to have the discussion but can also accept no discussion. |
| CATT | Agree with the assessment. |
| MediaTek | Agree with the initial assessment. |
| LG Electronics | This LS includes two separate issues (i.e., SL mode 1 and 2) that require technical discussion. So, it would be desirable that under AI 7.2.4, each issue is first discussed with an independent email thread and then the preparation of the reply LS is started with another email thread based on the outcome of email discussion. |

## Incoming LSs “CC: RAN1”

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

* [R1-2104154](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104154.zip) LS on Media-Related Services and Requirements SA4, Qualcomm
* [R1-2104156](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104156.zip) LS on Time Synchronization assistance parameters SA2, Nokia
* [R1-2104167](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104167.zip) Response LS on Scheduling Location in Advance to reduce Latency RAN2, Qualcomm
* [R1-2104174](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104174.zip) Reply LS on Introduction of Cell Grouping UE capability for NR-DC RAN4, Qualcomm
* [R1-2104175](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104175.zip) LS on Rel-16 updated RAN4 UE features lists for LTE and NR RAN4, CMCC
* [R1-2104231](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104231.zip) Reply LS to RAN4 on the capability of transparent TxD RAN2, vivo

## Others

### Related to R1-2100021 (LS to RAN1 on SL DRX design by RAN2, ZTE)

Related contributions:

* [R1-2104298](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104298.zip) [Draft] Reply LS on SL DRX design Nokia, Nokia Shanghai Bell
* [R1-2104465](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104465.zip) Discussion on LS from RAN2 on SL DRX design CATT, GOHIGH
* [R1-2104719](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104719.zip) Discussion on RAN2 LS on DRX impact Nokia, Nokia Shanghai Bell
* [R1-2104757](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104757.zip) Discussion on SL-DRX working assumption from RAN2 OPPO
* [R1-2104758](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104758.zip) Draft reply LS to RAN2 on SL DRX design OPPO
* [R1-2105448](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105448.zip) Draft Reply LS on SL DRX design vivo
* [R1-2105608](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105608.zip) [draft]Reply LS on sidelink DRX ZTE, Sanechips
* [R1-2105609](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105609.zip) Further consideration of SL DRX ZTE, Sanechips
* [R1-2105923](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105923.zip) Discussion on RAN2 LS on DRX impact Huawei, HiSilicon

Initial assessment:

* Discussed in two previous e-meetings. Email discussion/approval for the reply LS till 5/25, to be handled under 8.11 (name TBD, ZTE)

|  |  |
| --- | --- |
| **Company** | **Views** |
| Nokia | Agree with the initial assessment. |
| OPPO | Agree with the initial assessment |
| Samsung | Agree with the initial assessment |
| vivo | Agree with the initial assessment. |
| ZTE | Agree.  The reply LS is closely related to a RAN1 agreement on whether a UE is allowed to perform PSSCH monitoring for sensing, thus it's appropriate a technical discussion on this issue is done under this email thread, e.g. Whether a UE is allowed to perform PSSCH monitoring for sensing is allowed during the SL DRX inactive time. |
| Huawei, HiSilicon | Agree with the initial assessment. |
| CATT | Agree with the assessment. |
| MediaTek | Agree with the initial assessment. |
| LG Electronics | Our preference is to first have the necessary technical discussion under AI 8.11.1.1 and if the relevant decision is made, start the preparation discussion of the reply LS under AI 8.11. |

### Related to R1-2102306 (LS on Scheduling Location in Advance to reduce Latency, SA2, Qualcomm)

Related contributions:

* [R1-2104643](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104643.zip) Draft reply LS to SA2 on Scheduling Location in Advance Qualcomm Incorporated
* [R1-2105937](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105937.zip) Discussion on scheduling location in advance to reduce latency Huawei, HiSilicon

Initial assessment:

* Postponed from RAN1#104b-e. Email discussion/approval for the reply LS till 5/25, to be handled under 8.5 (name TBD, Qualcomm)

|  |  |
| --- | --- |
| **Company** | **Views** |
| Nokia | Agree with the initial assessment. |
| OPPO | Agree with the initial assessment |
| Samsung | Agree with the initial assessment |
| vivo | Agree that an email discussion is necessary. Whether a reply LS from RAN1 is necessary depends on the outcome of this discussion. |
| ZTE | Agree with the initial assessment |
| Huawei, HiSilicon | We would like to note that there are contributions submitted under 8.5.4 also discussing the issue.  R1-2104362 Discussion on latency enhancement for NR positioning vivo  R1-2104674 Enhancements for Latency Improvements for Positioning Qualcomm Incorporated  R1-2104908 NR Positioning Latency Reduction Intel Corporation  Guidance on work split regarding the normative work to support this latency reduction feature from SA2 and LS reply would be helpful. |
| CATT | This LS can be discussed, but not critical in this meeting. |

### Related to R1-2104023 (LS on Status Update on XR Traffic, SA4, Qulacomm)

Related contributions:

* [R1-2105607](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105607.zip) Reply LS to SA4 on Status Update on XR Traffic ZTE, Sanechips
* [R1-2105610](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105610.zip) About the LS on Status Update on XR Traffic Model ZTE, Sanechips
* [R1-2105833](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105833.zip) Discussion of SA4 input on XR traffic Ericsson
* [R1-2105924](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105924.zip) Discussion on LS on Status Update on XR Traffic Huawei, HiSilicon

Initial assessment:

* LS received in RAN1#104b-e. Email discussion is necessary (including a possible LS). To be handled under 8.12 as part of the normative work.

|  |  |
| --- | --- |
| **Company** | **Views** |
| Nokia | When looking at the Tdocs it is not entirely clear if an email thread for this is necessary, but given the ZTE proposal for a reply LS, it may make sense to discuss whether there is additional information to be sent to SA4 or not. We would be OK to park this and return to the topic after completing the RAN1 work on traffic models as well. |
| OPPO | Agree with the initial assessment |
| Samsung | Can be handled as part of XR normative work. |
| vivo | Agree with the initial assessment. To be handled under 8.14. |
| ZTE | An email discussion is needed. Not sure whether it's a typo given this LS is related to 8.14. The title of our contribution should be revised into [Draft]Reply LS to SA4 on Status Update on XR Traffic |
| Huawei, HiSilicon | We suggest RAN1 prioritize the discussion of remaining details of the statistical model and evaluation results based on RAN1 system-level simulation. The discussion related to this LS seems not urgent and can be delayed to future meetings.  Btw: the AI should be 8.14 instead of 8.12. R17 RAN1 XR is a Study Item, there is no normative work. |
| CATT | This LS is not critical for this meeting, and can be postponed to furture meetings. |
| MediaTek | Agree with the initial assessment though it should be handled under AI 8.14, instead of AI 8.12. |
| LG | Agree with the initial assessment. Can be discussed under 8.14. |

# Conclusion

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

* TBD

# References

[R1-2104154](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104154.zip) LS on Media-Related Services and Requirements SA4, Qualcomm

[R1-2104155](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104155.zip) LS on PDB for new 5QI SA2, Ericsson

[R1-2104156](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104156.zip) LS on Time Synchronization assistance parameters SA2, Nokia

[R1-2104157](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104157.zip) Reply LS on TCI state indication at Direct SCell activation RAN2, MediaTek

[R1-2104158](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104158.zip) Reply LS on timing of neighbor cell RSS-based measurements RAN2, Qualcomm

[R1-2104159](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104159.zip) Reply LS related to RSS based RSRQ for LTE-MTC RAN2, Huawei

[R1-2104160](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104160.zip) Reply LS to RAN1 on SL HARQ-ACK reporting to the gNB RAN2, Huawei

[R1-2104161](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104161.zip) LS on RI bit width for Cat5 UE in EN-DC mode RAN2, Nokia

[R1-2104162](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104162.zip) LS on the Intra-band and Inter-band (NG)EN-DC/NE-DC Capabilities RAN2, ZTE

[R1-2104163](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104163.zip) LS to RAN1 on random value generation for RMTC-SubframeOffset RAN2, Apple

[R1-2104164](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104164.zip) LS on fallback applicability for UE FeatureSetDownLinkPerCC capability fields RAN2, Ericsson

[R1-2104165](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104165.zip) LS on broadcast session delivery and MCCH design RAN2, Huawei

[R1-2104166](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104166.zip) Reply LS on Introduction of DL 1024QAM for NR RAN2, Ericsson

[R1-2104167](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104167.zip) Response LS on Scheduling Location in Advance to reduce Latency RAN2, Qualcomm

[R1-2104168](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104168.zip) Reply LS  on PUCCH and PUSCH repetition RAN4, Qualcomm

[R1-2104169](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104169.zip) Second reply LS on Beam switching gaps for Multi-TRP UL transmission RAN4, Nokia

[R1-2104170](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104170.zip) Reply LS on temporary RS for efficient SCell activation in NR CA RAN4, Huawei

[R1-2104171](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104171.zip) Reply LS on UE transmit timing error RAN4, Huawei

[R1-2104172](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104172.zip) LS reply on NTN UL time and frequency synchronization requirements RAN4, CATT

[R1-2104173](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104173.zip) Reply LS on maximum/minimum channel bandwidths and channelization for NR operation in 52.6 to 71 GHz RAN4, Intel

[R1-2104174](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104174.zip) Reply LS on Introduction of Cell Grouping UE capability for NR-DC RAN4, Qualcomm

[R1-2104175](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104175.zip) LS on Rel-16 updated RAN4 UE features lists for LTE and NR RAN4, CMCC

[R1-2104226](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104226.zip) On RI bit width for Cat5 UE in EN-DC mode Nokia, Nokia Shanghai Bell

[R1-2104229](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104229.zip) Reply LS on UE Sub-grouping for Paging Enhancement RAN2, MediaTek

[R1-2104230](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104230.zip) LS on TA pre-compensation RAN2, OPPO

[R1-2104231](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104231.zip) Reply LS to RAN4 on the capability of transparent TxD RAN2, vivo

[R1-2104298](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104298.zip) [Draft] Reply LS on SL DRX design Nokia, Nokia Shanghai Bell

[R1-2104319](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104319.zip) Discussion on the Intra-band and Inter-band (NG)EN-DC NE-DC Capabilities ZTE

[R1-2104320](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104320.zip) [DRAFT] Reply LS on the Intra-band and Inter-band (NG)EN-DC NE-DC Capabilities ZTE

[R1-2104465](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104465.zip) Discussion on LS from RAN2 on SL DRX design CATT, GOHIGH

[R1-2104466](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104466.zip) Discussion on the Intra-band and Inter-band (NG)EN-DC/NE-DC Capabilities CATT

[R1-2104467](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104467.zip) Discussion on RAN2 Reply LS on UE Sub-grouping for Paging Enhancement CATT

[R1-2104559](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104559.zip) LS on R16 V2X for PUCCH reporting and for minimum time gap RAN2, OPPO

[R1-2104576](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104576.zip) [DRAFT]   Reply LS on broadcast session delivery and MCCH design ZTE

[R1-2104578](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104578.zip) Draft reply LS on RI bit width for Cat5 UE in EN-DC ZTE

[R1-2104579](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104579.zip) Draft reply LS on fallback applicability for FeatureSetDownLinkPerCC capability fields ZTE

[R1-2104597](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104597.zip) Discussion on RAN2 LS on broadcast session delivery and MCCH design CMCC

[R1-2104640](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104640.zip) Draft reply LS on Cat-5 with EN-DC Qualcomm Incorporated

[R1-2104641](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104641.zip) Draft reply to RAN2 on minimum time gap Qualcomm Incorporated

[R1-2104642](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104642.zip) Draft LS reply to RAN2 on UE Sub-grouping for Paging Enhancement Qualcomm Incorporated

[R1-2104643](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104643.zip) Draft reply LS to SA2 on Scheduling Location in Advance Qualcomm Incorporated

[R1-2104709](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104709.zip) Discussion on RAN2 reply LS on RSS based RSRQ ZTE

[R1-2104719](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104719.zip) Discussion on RAN2 LS on DRX impact Nokia, Nokia Shanghai Bell

[R1-2104726](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104726.zip) Discussion on SA2 LS on new 5QI for NTN Ericsson

[R1-2104749](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104749.zip) Draft reply LS on New Standardized 5QIs for 5G-AIS (Advanced Interactive Services) OPPO

[R1-2104753](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104753.zip) Discussion on PUCCH reporting and for minimum time gap OPPO

[R1-2104754](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104754.zip) Draft reply LS on R16 V2X for PUCCH reporting and for minimum time gap OPPO

[R1-2104757](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104757.zip) Discussion on SL-DRX working assumption from RAN2 OPPO

[R1-2104758](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104758.zip) Draft reply LS to RAN2 on SL DRX design OPPO

[R1-2104774](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104774.zip) Discussion on LS on PDB for new 5Q OPPO

[R1-2104775](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104775.zip) Discussion on LS on TA pre-compensation OPPO

[R1-2104818](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104818.zip) Discussion on RSS-based measurements Qualcomm Incorporated

[R1-2104838](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104838.zip) Draft reply LS on RMTC-subframeoffset ZTE, Sanechips

[R1-2104839](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104839.zip) Discussion on the random value generation for RMTC-subframeoffset ZTE, Sanechips

[R1-2104843](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104843.zip) Discussion on the LS from RAN2 on PUCCH reporting and for minimum time gap CATT, GOHIGH

[R1-2104883](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2104883.zip) Draft reply LS on R16 V2X for PUCCH reporting and for minimum time gap Intel Corporation

R1-2104996 Draft reply LS on R16 V2X for PUCCH reporting and for minimum time gap Intel Corporation

Withdrawn

[R1-2105198](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105198.zip) Discussion on LS on TA pre-compensation ZTE

[R1-2105199](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105199.zip) Discussion on LS on PDB for new 5QI ZTE

[R1-2105279](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105279.zip) Discussion on the random value generation for RMTC-SubframeOffset Samsung

[R1-2105280](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105280.zip) Draft reply LS on RI bit width for Cat5 UE in EN-DC mode Samsung

[R1-2105281](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105281.zip) Draft reply LS on fallback applicability for UE FeatureSetDownLinkPerCC capability fields Samsung

[R1-2105282](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105282.zip) Draft reply LS on R16 V2X for PUCCH reporting and for minimum time gap Samsung

[R1-2105385](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105385.zip) [Draft] Reply LS on UE Sub-grouping for Paging Enhancement MediaTek Inc.

[R1-2105414](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105414.zip) Discussion on RAN2 LS on random value generation for RMTC-SubframeOffset LG Electronics

[R1-2105445](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105445.zip) Draft reply LS on fallback applicability for UE FeatureSetDownLinkPerCC capability fields vivo

[R1-2105446](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105446.zip) Draft reply LS on RI bit width for Cat5 UE in EN-DC mode vivo

[R1-2105447](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105447.zip) Discussion on RAN4 Reply LS on PUCCH and PUSCH repetition vivo

[R1-2105448](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105448.zip) Draft Reply LS on SL DRX design vivo

[R1-2105449](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105449.zip) Draft Reply LS on R16 V2X for PUCCH reporting and for minimum time gap vivo

[R1-2105450](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105450.zip) Draft Reply LS on random value generation for RMTC-SubframeOffset vivo

[R1-2105451](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105451.zip) Draft reply LS on the Intra-band and Inter-band (NG)EN-DC/NE-DC Capabilities vivo

[R1-2105481](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105481.zip) Draft reply LS on TA pre-compensation LG Electronics

[R1-2105607](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105607.zip) Reply LS to SA4 on Status Update on XR Traffic ZTE, Sanechips

[R1-2105608](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105608.zip) [draft]Reply LS on sidelink DRX ZTE, Sanechips

[R1-2105609](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105609.zip) Further consideration of SL DRX ZTE, Sanechips

[R1-2105610](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105610.zip) About the LS on Status Update on XR Traffic Model ZTE, Sanechips

[R1-2105649](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105649.zip) Discussion on LS about paging sub-grouping ZTE, Sanechips

[R1-2105811](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105811.zip) Discussion regarding LS reply on fallback applicability for UE FeatureSetDownLinkPerCC capability fields Ericsson

[R1-2105833](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105833.zip) Discussion of SA4 input on XR traffic Ericsson

[R1-2105898](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105898.zip) [Draft] LS on PUCCH reporting and minimum time gap for V2X Ericsson

[R1-2105899](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105899.zip) Discussion on RAN2 LS on PUCCH reporting and for minimum time gap for V2X Ericsson

[R1-2105922](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105922.zip) Discussion on HARQ feedback reporting and minimum time gap Huawei, HiSilicon

[R1-2105923](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105923.zip) Discussion on RAN2 LS on DRX impact Huawei, HiSilicon

[R1-2105924](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105924.zip) Discussion on LS on Status Update on XR Traffic Huawei, HiSilicon

[R1-2105927](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105927.zip) Discussion on LS on broadcast session delivery and MCCH design Huawei, HiSilicon, CBN

[R1-2105930](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105930.zip) Discusion on PDB for new 5QI Huawei, HiSilicon

[R1-2105931](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105931.zip) Discussion on TA pre-compensation Huawei, HiSilicon

[R1-2105932](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105932.zip) Discussion on EN-DC/NE-DC UE capabilities Huawei, HiSilicon

[R1-2105933](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105933.zip) Discussion on random value generation for rmtc-SubframeOffset Huawei, HiSilicon

[R1-2105934](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105934.zip) Discussion on fallback applicability for UE FeatureSetDownLinkPerCC capability fields Huawei, HiSilicon

[R1-2105935](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105935.zip) Discussion on RI bit width for Cat5 UE in EN-DC mode Huawei, HiSilicon

[R1-2105937](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105937.zip) Discussion on scheduling location in advance to reduce latency Huawei, HiSilicon

[R1-2105941](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105941.zip) Discussion on RSS based RSRQ for LTE-MTC Huawei, HiSilicon

[R1-2105948](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_105\Docs\R1-2105948.zip) [Draft] LS response on New Standardized 5QIs for 5G-AIS ETSI