**3GPP TSG RAN WG1 #106-e R1-210XXXX**

**e-Meeting, August 16th – 27th, 2021**

**Source: RAN1 Chair**

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

**Document for:** **Discussion and Decision**

# Introduction

This document summarizes the contributions submitted to Agenda Item 5 (Incoming Liaison Statements) in RAN1#106-e and identifies a set of LS that needs to be addressed in the email discussion phase of RAN1#106-e.

# Summary

## Incoming LSs “To RAN1”

### R1-2106405, Reply LS to RAN1 on physical layer aspects of small data transmission, RAN2 (vivo)

|  |  |
| --- | --- |
| **Initial assessment** | Email discussion under agenda item 5.2. |
| **Relevant tdocs (if any)** | R1-2106924 (CATT), R1-2107566 (Intel) |
| **Company** | **Views (if any)** |
| Nokia | A reply LS seems to be needed. To be taken in AI 5.2 |
| Samsung | Agree with chair’s initial assessment. |
| vivo | Agree with the initial assessment. |
| Intel | Agree with initial assessment.We also have related tdoc R1-2107566. We request to update ‘Relevant tdocs (if any)’ to include R1-2107566 (Intel) – modified above with track change. |
| NTT DOCOMO | Agree with the initial assessment.  |
| CATT | Agree with the initial assessment. |
| LG Electronics | Agree with the initial assessment. |
| ZTE | Agree with Chair’s initial assessment. |
| Qualcomm | Discuss the questions raised by RAN2 in AI 5.2. Reply to RAN2 after agreements/conclusions are made in RAN1.  |

### R1-2106406, LS on resource reselection trigger sl-reselectAfter, RAN2 (Apple)

|  |  |
| --- | --- |
| **Initial assessment** | Email discussion under agenda item 7.2.4. |
| **Relevant tdocs (if any)** | R1-2106849 (Samsung), R1-2106995 (CATT, GOHIGH), R1-2107222 (OPPO), R1-2107305 (Qualcomm), R1-2107530 (LG Electronics), R1-2107565 (Intel), R1-2107699 (Apple), R1-2107702 (Apple), R1-2107955 (vivo), R1-2108077 (ZTE, Sanechips), R1-2108127 (Ericsson), R1-2108132 (Ericsson), R1-2108180 (Nokia, Nokia Shanghai Bell), R1-2108183 (Huawei, HiSilicon) |
| **Company** | **Views (if any)** |
| Nokia | A reply LS seems to be needed. To be taken in AI 7.2.4 |
| Samsung | Agree with chair’s initial assessment. |
| vivo | Agree with the initial assessment. |
| OPPO | Agree with the initial assessment |
| Intel | Agree with initial assessment |
| NTT DOCOMO | Agree with the initial assessment. Discussion under 7.2.4 is needed. |
| CATT | Agree with the initial assessment. |
| LG Electronics | Since the revised version of R1-2107530 has been submitted as **R1-2108197**, we correct our company’s contribution number above accordingly. We agree with Chairman’s initial assessment. |
| Huawei, HiSilicon | Ok with initial assessment. |
| ZTE | Agree with Chair’s initial assessment. |
| Qualcomm | Agree that a reply LS is needed. |

### R1-2106407, LS response on two PUCCH capability, RAN2 (OPPO)

|  |  |
| --- | --- |
| **Initial assessment** | Noted. No subsequent email discussion needed. |
| **Company** | **Views (if any)** |
| Nokia | Agree with the initial assessment |
| Samsung | Agree with chair’s initial assessment.  |
| vivo | Agree with the initial assessment. |
| Intel | Agree with initial assessment |
| NTT DOCOMO | Agree with the initial assessment.  |
| CATT | Agree with the initial assessment. |
| LG Electronics | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with the initial assessment. |
| ZTE | Agree with Chair’s initial assessment. |
| Qualcomm | One email discussion on this is needed. In the LS, the 3rd and 4th bullets under Note 1 refer to subslot, however, the note is added for the case that a UE is configured with 2 slot-based PUCCHs. To avoid confusion, “sub-slot” in the note should be replaced by “slot”. |

### R1-2106408, Reply LS on G-RNTI and G-CS-RNTI for MBS, RAN2 (CMCC)

|  |  |
| --- | --- |
| **Initial assessment** | Noted. No subsequent email discussion needed. |
| **Company** | **Views (if any)** |
| Nokia | Agree with the initial assessment |
| Samsung | Agree with chair’s initial assessment. |
| vivo | Agree with the initial assessment. The RAN2 agreement will be taken into consideration in the MBS session.  |
| Futurewei | Agree |
| Intel | Agree with initial assessment |
| CATT | Agree with the initial assessment. |
| LG Electronics | Agree with the initial assessment. |
| Huawei, HiSilicon | RAN1 discussion will consider RAN2 agreement of supporting multiple G-RNTI and G-CS-RNTI but should focus on completing the basic functions of supporting a given G-RNTI and G-CS-RNTI when necessary. Overall, we agree with the initial assessment.  |
| ZTE | Agree with Chair’s initial assessment. The potential RAN1 impact can be handled in AI 8.12. |
| Qualcomm | Agree with the initial assessment |

### R1-2106409, Reply LS on overlapped data and SR with equal L1 priority, RAN2 (Samsung)

|  |  |
| --- | --- |
| **Initial assessment** | Noted. No subsequent email discussion needed. |
| **Company** | **Views (if any)** |
| Nokia | No reply LS needed. To be taken into account in Rel-16 URLLC PUSCH skipping discussions in AI 6.2.5 |
| Samsung | Agree with chair’s initial assessment and same understanding with Nokia (but AI 7.2.5). |
| vivo | Agree with the initial assessment. The RAN2 agreement will be taken into consideration in Rel-16 URLLC session.  |
| Intel | Agree with initial assessment (no LS reply, no subsequent discussion). We do not think the further discussion is needed for the agreement made in RAN2. |
| NTT DOCOMO | Agree with the initial assessment. To be discussed as issue#9 in AI7.2.5 |
| CATT | Agree with the initial assessment. The issue should be taken into account in AI 7.2.5. |
| LG | Agree with initial assessment. Discussion in AI 7.2.5 would consider RAN2 agreement for priority handling. |
| Huawei, HiSilicon | Agree with the initial assessment. |
| ZTE | We think the discussion on the potential RAN1 impact and reply LS is needed under AI 7.2.5 since RAN2 working assumption needs the confirmation from RAN1. |
| Qualcomm | Depends on discussions needed under AI 7.2.5, a reply LS to RAN2 may be needed.  |

### R1-2106410, LS on update for MCCH design, RAN2 (Huawei)

|  |  |
| --- | --- |
| **Initial assessment** | Email discussion under agenda item 8.12. |
| **Relevant tdocs (if any)** | R1-2107387 (CMCC), R1-2107513 (MediaTek), R1-2108066 (Huawei, HiSilicon), R1-2108067 (Huawei, HiSilicon) |
| **Company** | **Views (if any)** |
| Nokia | To be taken into account in AI 8.12. A need for reply LS depends on the outcome of those discussions. |
| Samsung | No immediate RAN1 response is required. |
| vivo | Agree with Nokia’s view.  |
| OPPO | Agree with the initial assessment |
| Futurewei | The relevant feature lead for 8.12 should take the agreements into considerations on impact to RAN1. |
| Intel | Agree with initial assessment |
| CATT | Agree with Nokia’s view. |
| LG Electronics | Agree with the initial assessment. |
| Huawei, HiSilicon | We agree RAN1 needs to discuss the potential alternatives and the discussion can take place in AI 8.12.3. We see the necessity of replying this LS to RAN2 because the alternative RAN1 selects will affect the subsequent discussion of remaining FFS for this issue in RAN2.  |
| ZTE | Agree with Chair’s initial assessment. |
| Qualcomm | No reply LS is needed. Further discussion triggered by the LS may be needed in AI 8.12.  |

### R1-2106411, LS to RAN1 on UL positioning in RRC\_INACTIVE, RAN2 (Intel)

|  |  |
| --- | --- |
| **Initial assessment** | Email discussion under agenda item 8.5. |
| **Relevant tdocs (if any)** | R1-2107177 (ZTE), R1-2108191 (Huawei, HiSilicon) |
| **Company** | **Views (if any)** |
| Nokia | No LS response needed. To be taken into account in AI 8.5. May not require a separate email thread. |
| Samsung | No immediate RAN1 response is required. |
| vivo | Agree with Nokia’s view.  |
| OPPO | It seems no RAN1 action is needed for this LS since it only tells the current status of RAN2 discussion. Thus, no email discussion is needed for it.For the SRS transmission of a UE with inactive state, it is in the scope of AI 8.5. If RAN1 makes some agreement to send an LS to RAN2, then a new RAN1 LS can be sent out, but it is not directly related to this LS. |
| Futurewei | This is important for RAN1 to proceed with UL positioning in Inactive state. RAN1 has been waiting for this decision.  |
| Intel | Agree with initial assessment |
| NTT DOCOMO | Agree with Nokia’s view. |
| CATT | The LS can be discussed in AI 8.5.6. Whether to send reply LS will depend on the RAN1’s discussion. |
| LG Electronics | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with the initial assessment.We believe the LS reply to RAN2 is needed to facilitate RAN2 completing the normative work of supporting UL positioning in RRC\_INACTIVE. |
| ZTE | We are fine with Chair’s initial assessment |
| Qualcomm | OK to have an email discussion within AI 8.5 RAN1. LS response may be needed depending on the agreements |

### R1-2106412, LS to RAN1 on parameters for on-demand PRS, RAN2 (Intel)

|  |  |
| --- | --- |
| **Initial assessment** | Email discussion under agenda item 8.5. |
| **Relevant tdocs (if any)** | R1-2106780 (ZTE), R1-2107219 (OPPO), R1-2108192 (Huawei, HiSilicon) |
| **Company** | **Views (if any)** |
| Nokia | A reply LS is needed. To be taken in AI 8.5 |
| Samsung | Agree with chair’s initial assessment. |
| vivo | Agree with the initial assessment. Vivo’s contribution on this issue was submitted to AI 8.5.6 “Discussion on inactive state positioning and on-demand PRS” |
| OPPO | Agree with the initial assessment |
| Futurewei | Agree with Chair’s recommendation.  |
| Intel | Agree with initial assessment |
| NTT DOCOMO | Agree with the initial assessment. |
| CATT | The LS can be discussed in AI 8.5.6. Whether to send reply LS will depend on the discussion results. |
| LG Electronics | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with the initial assessment. |
| ZTE | We are fine with Chair’s initial assessment |
| Qualcomm | A reply LS is needed after RAN1 reaches agreements on the parameter list. OK to have a separate email discussion within the AI 8.5. |

### R1-2106413, LS on time gap information in SCI, RAN2 (OPPO)

|  |  |
| --- | --- |
| **Initial assessment** | Email discussion under agenda item 8.11. |
| **Relevant tdocs (if any)** | R1-2106850 (Samsung), R1-2106923 (CATT, GOHIGH), R1-2107226 (OPPO), R1-2107227 (OPPO), R1-2107304 (Qualcomm), R1-2107532 (LG Electronics), R1-2107700 (Apple), R1-2107703 (Apple), R1-2107891 (Xiaomi), R1-2107957 (vivo), R1-2108130 (Ericsson), R1-2108135 (Ericsson), R1-2108181 (Nokia, Nokia Shanghai Bell), R1-2108185 (Huawei, HiSilicon) |
| **Company** | **Views (if any)** |
| Nokia | A reply LS is needed. To be taken in AI 8.11 |
| Samsung | Agree with chair’s initial assessment. |
| vivo | Agree with the initial assessment.  |
| OPPO | Agree with the initial assessment |
| Futurewei | Agree |
| Intel | Agree with initial assessment |
| NTT DOCOMO | Agree with the initial assessment. Discussion under 8.11 is needed. |
| CATT | Agree with the initial assessment. |
| LG Electronics | Agree with the initial assessment. |
| Huawei, HiSilicon | Ok with initial assessment. |
| ZTE | Agree with Chair’s initial assessment. |
| Qualcomm | Agree that a reply LS is needed. To be taken in AI 8.11 |

### R1-2106414, LS Reply on TCI State Update for L1/L2-Centric Inter-Cell Mobility, RAN2 (Samsung)

|  |  |
| --- | --- |
| **Initial assessment** | Email discussion under agenda item 8.1. |
| **Relevant tdocs (if any)** | R1-2106777 (ZTE), R1-2106852 (Samsung), R1-2107070 (Lenovo, Motorola), R1-2107283 (OPPO), R1-2107696 (Apple), R1-2107813 (LG Electronics), R1-2107963 (vivo), R1-2108063 (Huawei, HiSilicon) |
| **Company** | **Views (if any)** |
| Nokia | Email discussion thread needed, a potential reply LS depends on the outcome of the discussion. To be taken in AI8.1 |
| Samsung | Agree with chair’s initial assessment. |
| vivo | Agree with the initial assessment.  |
| OPPO | Agree with the initial assessment |
| Futurewei | Agree with the initial assessment. Whether a reply LS is needed depends on the outcome of the discussion in AI8.1. |
| Intel | Agree with initial assessment |
| NTT DOCOMO | Agree with the initial assessment. |
| CATT | Agree with the initial assessment. |
| LG Electronics | Agree with the initial assessment. |
| ZTE | We are fine with Chair’s initial assessment |
| Qualcomm | A reply LS is needed. To be taken in AI8.1 |

### R1-2106418, Reply LS to RAN1 LS on TCI State Update for L1/L2-Centric Inter-Cell Mobility, RAN3 (Samsung)

|  |  |
| --- | --- |
| **Initial assessment** | Email discussion under agenda item 8.1. |
| **Relevant tdocs (if any)** | R1-2106778 (ZTE), R1-2106853 (Samsung), R1-2107071 (Lenovo, Motorola), R1-2107284 (OPPO), R1-2107697 (Apple) , R1-2107963 (vivo), R1-2107964 (vivo), R1-2108064 (Huawei, HiSilicon) |
| **Company** | **Views (if any)** |
| Nokia | Email discussion thread needed, a potential reply LS depends on the outcome of the discussion. To be taken in AI8.1 |
| Samsung | Agree with chair’s initial assessment. |
| vivo | Agree with the initial assessment.  |
| OPPO | Agree with the initial assessment |
| Futurewei | Agree with the initial assessment. Whether a reply LS is needed depends on the outcome of the discussion in AI8.1. |
| Intel | Agree with initial assessment |
| NTT DOCOMO | Agree with the initial assessment. |
| CATT | Agree with the initial assessment. |
| LG Electronics | Agree with the initial assessment. |
| ZTE | We are fine with Chair’s initial assessment |
| Qualcomm | A reply LS is needed. To be taken in AI 8.1 |

### R1-2106419, LS on IAB resource multiplexing, RAN3 (Huawei)

|  |  |
| --- | --- |
| **Initial assessment** | Email discussion under agenda item 8.10. |
| **Relevant tdocs (if any)** | R1-2107968 (vivo), R1-2108110 (Ericsson), R1-2108111 (Ericsson) |
| **Company** | **Views (if any)** |
| Nokia | Email discussion thread needed and a reply LS needed. To be taken in AI8.10.1 |
| Samsung | Agree with chair’s initial assessment. |
| vivo | Agree with the initial assessment.  |
| Intel | Agree with initial assessment |
| NTT DOCOMO | Agree with the initial assessment.  |
| LG Electronics | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with the assessment. |
| ZTE | Agree with Chair’s initial assessment. |
| Qualcomm | Reply LS needed. Recommended discussion under AI 8.10.1. Qualcomm’s views on this LS were provided in section 5 of R1-2107365. |

### R1-2106420, LS on Inter-donor migration, RAN3 (Samsung)

|  |  |
| --- | --- |
| **Initial assessment** | Email discussion under agenda item 8.10. |
| **Relevant tdocs (if any)** | R1-2107827 (ZTE, Sanechips), R1-2107969 (vivo), R1-2108062 (Huawei, HiSilicon), R1-2108069 (Huawei, HiSilicon) |
| **Company** | **Views (if any)** |
| Nokia | Email discussion thread needed, a reply LS needed. To be taken in AI8.10.1 |
| Samsung | Agree with chair’s initial assessment. |
| vivo | Agree with the initial assessment.  |
| Intel | Agree with initial assessment |
| NTT DOCOMO | Agree with the initial assessment.  |
| LG Elecronics | Agree with the initial assessment.  |
| Huawei, HiSilicon | Agree with the assessment. |
| ZTE | Agree with Chair’s initial assessment. |
| Ericsson | Ericsson contribution R1-2108111 relates to inter-donor migration. |
| Qualcomm | Reply LS needed. Recommended discussion under AI 8.10.1. Qualcomm’s views on this LS were provided in section 5 of R1-2107365. |

### R1-2106422, Reply LS on Rel-17 uplink Tx switching, RAN4 (China Telecom)

|  |  |
| --- | --- |
| **Initial assessment** | Noted. No subsequent email discussion needed. |
| **Company** | **Views (if any)** |
| Nokia | Agree with the initial assessment. |
| Samsung | Agree with chair’s initial assessment. |
| Nokia | Agree with the initial assessment. |
| OPPO | Agree with the initial assessment |
| Intel | Agree with initial assessment |
| CATT | Agree with the initial assessment. |
| ZTE | Agree with Chair’s initial assessment. Any potential RAN1 impact can be handled under AI 5.1. |
| Qualcomm | Agree with the initial assessment. |

### R1-2106423, Reply LS on PUCCH and PUSCH repetition, RAN4 (Qualcomm)

|  |  |
| --- | --- |
| **Initial assessment** | Email discussion under agenda item 8.8. |
| **Relevant tdocs (if any)** | R1-2106786 (ZTE), R1-2107547 (LG Electronics), R1-2107959 (vivo), R1-2108177 (Ericsson), R1-2108193 (Huawei, HiSilicon) |
| **Company** | **Views (if any)** |
| Nokia | To be discussed in AI 8.8.1.3. |
| Samsung | Need an email discussion under AI 8.8.1.3. |
| vivo | Agree with the initial assessment.  |
| Intel | Agree with initial assessment |
| NTT DOCOMO | Agree with the initial assessment.  |
| CATT | Can be handled in Rel-17 CE agenda 8.8.1.3. |
| LG Electronics | Agree with the initial assessment. |
| ZTE | Agree with Chair’s initial assessment. |
| Qualcomm | Email discussion is needed under AI 8.8.1.3.  |

### R1-2106424, LS on maximum UE EIRP and conducted power, RAN4 (Intel)

|  |  |
| --- | --- |
| **Initial assessment** | Noted. No subsequent email discussion needed. |
| **Company** | **Views (if any)** |
| Nokia | Agree with the initial assessment. |
| Samsung | Agree with chair’s initial assessment. |
| vivo | Agree with the initial assessment.  |
| OPPO | This is a response LS from RAN4, RAN1 should take RAN4 responses into account in the discussion for AI 8.2.3 in this meeting. |
| Intel | Agree with initial assessment |
| NTT DOCOMO | Agree with the initial assessment.  |
| LG Electronics | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with initial assessment. |
| ZTE | Agree with Chair’s initial assessment. |
| Qualcomm | Agree with the initial assessment. |

### R1-2106425, LS on 60 GHz Time-related issues RAN4 (Apple)

|  |  |
| --- | --- |
| **Initial assessment** | Noted. No subsequent email discussion needed. |
| **Company** | **Views (if any)** |
| Nokia | Agree with the initial assessment. |
| Samsung | Agree with chair’s initial assessment. |
| vivo | Agree with the initial assessment.  |
| OPPO | This is a response LS from RAN4, RAN1 should take RAN4 responses into account in the discussion for AI 8.2 in this meeting. |
| Intel | Agree with initial assessment |
| NTT DOCOMO | Agree with the initial assessment.  |
| CATT | Agree with the initial assessment. |
| LG Electronics | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with initial assessment. |
| ZTE | Agree with Chair’s initial assessment. |
| Qualcomm | Agree with the initial assessment. |

### R1-2106426, Reply LS on L1/L2 centric inter-cell mobility RAN4 (Samsung)

|  |  |
| --- | --- |
| **Initial assessment** | Email discussion under agenda item 8.1. |
| **Relevant tdocs** | R1-2106854 (Samsung), R1-2107072 (Lenovo, Motorola), R1-2107285 (OPPO), R1-2107698 (Apple), R1-2107965 (vivo) R1-2108065 (Huawei, HiSilicon) |
| **Company** | **Views (if any)** |
| Nokia | Agree with the initial assessment. |
| Samsung | Agree with chair’s initial assessment. |
| vivo | Agree with the initial assessment.  |
| OPPO | Agree with the initial assessment |
| Futurewei | Agree with the initial assessment. |
| Intel | Agree with initial assessment |
| NTT DOCOMO | Agree with the initial assessment. |
| CATT | Agree with the initial assessment. |
| LG Electronics | Agree with the initial assessment. |
| ZTE | We are fine with Chair’s initial assessment. But, our draft LS ‘R1-2106779’ is missing in the above list of relevant tdocs. |
| Qualcomm | Agree with the initial assessment. |

### R1-2106427, Reply LS on temporary RS for efficient SCell activation in NR CA, RAN4 (Huawei)

|  |  |
| --- | --- |
| **Initial assessment** | Noted. No subsequent email discussion needed. |
| **Company** | **Views (if any)** |
| Nokia | Agree with the initial assessment. |
| Samsung | Agree with chair’s initial assessment. |
| vivo | Agree with the initial assessment.  |
| Futurewei | Agree with the initial assessment. |
| Intel | Agree with initial assessment |
| NTT DOCOMO | Agree with the initial assessment.  |
| CATT | Agree with the initial assessment. |
| ZTE | We are fine with Chair’s initial assessment. |
| Qualcomm | Agree with the initial assessment. |

### R1-2106428, Response LS on NTN UL frequency synchronization requirements, RAN4 (CATT)

|  |  |
| --- | --- |
| **Initial assessment** | Noted. No subsequent email discussion needed. |
| **Company** | **Views (if any)** |
| Nokia | Agree with the initial assessment. |
| Samsung | Agree with chair’s initial assessment. |
| vivo | Agree with the initial assessment.  |
| OPPO | This is a response LS from RAN4, RAN1 should take RAN4 responses into account in the discussion for AI 8.4.2 in this meeting. |
| Intel | Agree with initial assessment |
| NTT DOCOMO | Agree with the initial assessment. Corresponding email thread is unnecessary and future RAN1 discussion can consider this LS when needed. |
| CATT | Agree with the initial assessment. |
| LG Electronics | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with the assessment. |
| ZTE | We are fine with Chair’s initial assessment. |
| Qualcomm | Agree with the initial assessment. |

### R1-2106429, Reply LS on timing assumption for inter-cell DL measurement, RAN4 (Samsung)

|  |  |
| --- | --- |
| **Initial assessment** | Noted. No subsequent email discussion needed. |
| **Company** | **Views (if any)** |
| Nokia | Agree with the initial assessment. |
| Samsung | Agree with chair’s initial assessment. |
| vivo | Agree with the initial assessment.  |
| Futurewei | Agree with the initial assessment. |
| Intel | Agree with initial assessment |
| NTT DOCOMO | Agree with the initial assessment. |
| LG Electronics | Agree with the initial assessment. |
| ZTE | Agree with Chair’s initial assessment. |
| Qualcomm | No reply LS is needed. But an email discussed triggered by this LS is needed under AI 8.1.1 |

### R1-2106430, LS on synchronous operation between Uu and SL in TDD band n79, RAN4 (CATT)

|  |  |
| --- | --- |
| **Initial assessment** | Email discussion under agenda item 8.11. |
| **Relevant tdocs (if any)** | R1-2106851 (Samsung), R1-2107306 (Qualcomm), R1-2107531 (LG Electronics), R1-2107701 (Apple), R1-2107704 (Apple), R1-2107892 (Xiaomi), R1-2107956 (vivo), R1-2108059 (OPPO), R1-2107228 (OPPO), R1-2108075 (ZTE, Sanechips), R1-2108125 (Nokia, Nokia Shanghai Bell), R1-2108129 (Ericsson), R1-2108134 (Ericsson), R1-2108187 (Huawei, HiSilicon) |
| **Company** | **Views (if any)** |
| Nokia | Agree with the initial assessment. |
| Samsung | Agree with chair’s initial assessment. |
| vivo | Agree with the initial assessment.  |
| OPPO | Agree with the initial assessment |
| Intel | Agree with initial assessment |
| NTT DOCOMO | Agree with the initial assessment. Discussion under 8.11 is needed. |
| CATT | Agree with the initial assessment. |
| LG Electronics | After receiving the reply LS from RAN1, RAN4 can proceed with a discussion to define RF/RRM requirements related to the scenario of partially used SL with Uu in TDD band. Considering this aspect, **it would be desirable for RAN1 to approve the reply LS within the 1st week of this meeting (i.e., by August 20th) and send it to RAN4 as soon as possible**. By doing so, RAN4 will be able to proceed with the related work mentioned above during the 2nd week of this meeting (i.e.,23 – 27 August). Regarding the agenda item on which this discussion should be addressed, we agree with Chairman’s initial assessment. |
| Huawei, HiSilicon | Ok with initial assessment. |
| ZTE | Agree with Chair’s initial assessment. |
| Ericsson | Correct Ericsson contribution should be R1-2108129. |
| Qualcomm | Agree that a reply LS is needed. A email discussion is needed under AI 8.11 |

### R1-2106431, LS on UL MIMO coherence for Tx switching between two carriers, RAN4 (China Telecom)

|  |  |
| --- | --- |
| **Initial assessment** | Email discussion under agenda item 7.2.6. |
| **Relevant tdocs (if any)** | R1-2106786 (ZTE), R1-2107307 (Qualcomm), R1-2107960 (vivo), R1-2107961 (vivo) R1-2107962 (vivo) |
| **Company** | **Views (if any)** |
| Nokia | This doesn’t seem to be a Rel-16 MIMO LS, but related to Tx switching done in NR\_RF\_FR1-Core. Should be addressed in AI 7.2.12. |
| Samsung | Email discussion is needed under AI 7.2.12. |
| vivo | Agree with Nokia that AI 7.2.12 may be more appropriate.  |
| OPPO | It should be discussed in Section 7.2.12 Others |
| Intel | Agree with initial assessment. No strong preference which AI will take care of. |
| NTT DOCOMO | Agree with the initial assessment. |
| CATT | It could be handled in 7.2.12. |
| ZTE | This LS is more related to Rel-16 UL Tx switching, which can be handled under 7.2.12. |
| Qualcomm | A reply LS is needed to discussed under AI 7.2.12.  |

### R1-2106435, LS on determination of location estimates in local co-ordinates, SA2 (Ericsson)

|  |  |
| --- | --- |
| **Initial assessment** | Email discussion under agenda item 8.5. |
| **Relevant tdocs (if any)** | R1- 2107966 (vivo), R1-2108068 (Huawei, HiSilicon) |
| **Company** | **Views (if any)** |
| Nokia | Email discussion thread needed, a potential reply LS depends on the outcome of the discussion. To be taken in AI8.5. |
| Samsung | Agree with chair’s initial assessment. |
| vivo | Agree with the initial assessment.  |
| Intel | Agree with initial assessment |
| NTT DOCOMO | Agree with the initial assessment. |
| CATT | Agree with the initial assessment. |
| LG Electronics | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with the initial assessment. |
| ZTE | Agree with Chair’s initial assessment. |
| Qualcomm | Agree with the initial assessment. |

### R1-2106437, LS on 5 GHz channel access mechanism, ETSI TC BRAN

|  |  |
| --- | --- |
| **Initial assessment** | Noted. No subsequent email discussion needed. |
| **Company** | **Views (if any)** |
| Nokia | Agree with the initial assessment. |
| Samsung | Agree with chair’s initial assessment. |
| vivo | Agree with the initial assessment.  |
| Intel | Agree with initial assessment |
| NTT DOCOMO | Agree with the initial assessment.  |
| LG Electronics | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with initial assessment |
| ZTE | Agree with Chair’s initial assessment. |
| Qualcomm | Agree with the initial assessment. |

## Incoming LSs “CC: RAN1”

All the following LSs are noted. No actions from RAN1 unless explicitly requested.

R1-2106415 Reply LS on PDB for new 5QI RAN2 (Ericsson)

R1-2106416 Reply LS on Time Synchronization assistance parameters RAN2 (Nokia)

R1-2106417 LS on On-demand PRS RAN2, Ericsson

R1-2106421 Response LS on Exchange of information related to SRS-RSRP measurement resource configuration for UE-CLI RAN3 (ZTE)

R1-2106432 LS on RAN4 recommendation for the 52.6 - 71 GHz frequency range designation RAN4 (Huawei)

R1-2106433 LS on Rel-16 updated RAN4 UE features lists for LTE and NR RAN4 (CMCC)

R1-2106434 Reply LS on the intra-band and inter-band (NG)EN-DC or NE-DC Capabilities RAN4 (ZTE Corporation)

|  |  |
| --- | --- |
| **Initial assessment** | Noted. No subsequent email discussion needed. |
| **Relevant tdocs (if any)** | R1-2106727 (ZTE), R1-2106728 (ZTE), R1-2107967 (vivo) |
| **Company** | **Views (if any)** |
| Nokia | Agree with the initial assessment. |
| Samsung | Agree with chair’s initial assessment. |
| vivo | An related RAN2 LS [R1-2104162](file:///C%3A%5Cwanshic%5COneDrive%20-%20Qualcomm%5CDocuments%5CStandards%5C3GPP%20Standards%5CMeeting%20Documents%5CTSGR1_105%5CDocs%5CR1-2104162.zip) was treated but delayed in RAN#105e due to lack of RAN4 input, therefore we should treat this topic and respond to RAN2.  |
| NTT DOCOMO | According to the discussion at RAN1#105-e meeting as summarized in R1-2106180, RAN1 can discuss whether 6-24 and 6-23 can also be applicable to Type5, by taking R1-2106434 into account. RAN1 should send reply LS to RAN2 (i.e., reply to R1-2104162) according to the request from RAN2. So, we think it would be necessary to have an email discussion on this topic in RAN1#105-e. |
| CATT | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with the initial assessment [for R1-2106432] |
| ZTE | An email discussion is needed.RAN2 sent an LS R1-2104162/R2-2104550 to RAN1&RAN4 during RAN1#105-e and asked RAN1&RAN4 to provide answers for RAN2’s questions. During RAN1#105-e meeting, we achieved the following agreements and the plan is to reply RAN2’s LS in this meeting by taking RAN4’s reply LS (i.e., R1-2106434) into account. Note that, the relevant tdocs above are reply LS to the previous RAN2 LS, instead of the above RAN4 LS.

|  |
| --- |
| **[105-e-AI5-LS-02] A reply LS to** [R1-2104162](file:///C%3A%5CUsers%5Cwanshic%5COneDrive%20-%20Qualcomm%5CDocuments%5CStandards%5C3GPP%20Standards%5CMeeting%20Documents%5CTSGR1_105%5CDocs%5CR1-2104162.zip) **is necessary – email discussion/approval till 5/25 (Xingguang Wei, ZTE)**Update on 5/25:Agreement:Regarding questions mentioned in RAN2 LS [R1-2104162](file:///C%3A%5CUsers%5Cwanshic%5COneDrive%20-%20Qualcomm%5CDocuments%5CStandards%5C3GPP%20Standards%5CMeeting%20Documents%5CTSGR1_105%5CDocs%5CR1-2104162.zip)/R2-2104550,* UE feature 6-24 (ul-TimingAlignmentEUTRA-NR) is applicable to Type 1 and Type 2 (NG)EN-DC BC types.
* UE feature 6-23 (pa-PhaseDiscontinuityImpacts) is applicable to Type 1 and Type 2 (NG)EN-DC/NE-DC BC types.
* Both 6-24 (ul-TimingAlignmentEUTRA-NR) and 6-23 (pa-PhaseDiscontinuityImpacts) are used to indicate the restriction to the intra-band (NG)EN-DC/NE-DC BC part.
* RAN1 further discusses whether 6-24 (ul-TimingAlignmentEUTRA-NR) and 6-23 (pa-PhaseDiscontinuityImpacts) can be applicable to Type 5 (NG)EN-DC/NE-DC BC type by taking RAN4 discussion outcome into account.

Draft LS? 5/26 🡪 no further update. Email thread is closed. Final summary in [R1-2106180](file:///C%3A%5CUsers%5Cwanshic%5COneDrive%20-%20Qualcomm%5CDocuments%5CStandards%5C3GPP%20Standards%5CMeeting%20Documents%5CTSGR1_105%5CDocs%5CR1-2106180.zip) |

 |
| Qualcomm | Agree with the initial assessment. |

R1-2106436 Response LS on Scheduling Location in Advance to reduce Latency SA2 (CATT)

## Others

### R1-2100021 (from RAN1#104-e), LS to RAN1 on SL DRX design, RAN2 (ZTE)

|  |  |
| --- | --- |
| **Initial assessment** | Email discussion under agenda item 8.11. |
| **Relevant tdocs (if any)** | R1-2106922 (CATT, GOHIGH), R1-2107705 (Apple), R1-2107958 (vivo), R1-2108078 (ZTE, Sanechips), R1-2108079 (ZTE, Sanechips), R1-2108128 (Ericsson), R1-2108133 (Ericsson), R1-2108178 (Nokia, Nokia Shanghai Bell), R1-2108179 (Nokia, Nokia Shanghai Bell), R1-2108186 (Huawei, HiSilicon) |
| **Company** | **Views (if any)** |
| Nokia | A reply LS needed and related discussion needed. To be taken in AI 8.11. |
| Samsung | Agree with chair’s initial assessment. |
| vivo | Agree with the initial assessment. |
| OPPO | Agree with the initial assessment |
| Futurewei | Agree with the initial assessment. |
| NTT DOCOMO | Agree with the initial assessment. Discussion under 8.11 is needed. |
| CATT | Agree with the initial assessment. |
| LG Electronics | Agree with the initial assessment. |
| Huawei, HiSilicon | Ok with initial assessment. |
| ZTE | Agree with Chairman's initial assessment. Prefer to have a two-week email discussion from Aug 16th to facilitate better progress. |
| QC | Agree with the initial assessment. |

### R1-2104230 (from RAN1#105-e), LS on TA pre-compensation, RAN2 (OPPO)

|  |  |
| --- | --- |
| **Initial assessment** | Email discussion under agenda item 8.4. |
| **Relevant tdocs (if any)** | R1-2107706 (Apple) |
| **Company** | **Views (if any)** |
| OPPO | Agree with the initial assessment |
| LG Electronics | Agree with the initial assessment. |
| ZTE | In RAN1#105e, the reply LS on Q2 has been provided and continual discussion on the remaining issues (i.e., Q1 and Q3) is expected to be under AI 8.4.2. The relevant replies are still up to the progress on synchronization design and a reply LS may not be guaranteed. |
| Qualcomm | Agree with the initial assessment.  |

### R1-2104023 (from RAN1#104bis-e), LS on Status Update on XR Traffic, SA4 (Qualcomm)

|  |  |
| --- | --- |
| **Initial assessment** | Email discussion under agenda item 8.4. |
| **Relevant tdocs (if any)** | R1-2107632 (Ericsson), R1-2108182 (Huawei, HiSilicon) |
| **Company** | **Views (if any)** |
| OPPO | This should be discussed under AI 8.14 instead. Otherwise, agree with the initial assessment. |
| LG Electronics | Agree with the initial assessment. |
| Huawei, HiSilicon | There was an email discussion on this issue in RAN1#105-e. However, companies’ interest level is quite low. We assume the situation is similar to last meeting. So no email discussion on this issue seems also fine.Btw: the agenda item for XR is 8.14. |
| ZTE | The discussion should be done under 8.14 if needed. During RAN1#104b-e, there was not much interest in this topic with ZTE’s paper as the only contribution. We are OK to discuss this though a reply LS may not be guaranteed. |
| Qualcomm | Email discussion is needed under AI 8.14.  |

### R1-2104559 (from RAN1#105-e), LS on R16 V2X for PUCCH reporting and for minimum time gap, RAN2 (OPPO)

|  |  |
| --- | --- |
| **Initial assessment** | Email discussion under agenda item 7.2.4. |
| **Relevant tdocs (if any)** | R1-2107954 (vivo), R1-2108126 (Ericsson), R1-2108131 (Ericsson) |
| **Company** | **Views (if any)** |
| OPPO | In thread [105-e-NR-5G\_V2X-07], we discussed extensively different versions of response reply for Q2 in RAN2’s LS. It was noted and concluded by Wanshi that:*It seems that although different versions have been tried, there is no consensus in terms of the exact wording. I am afraid that additional time for this email thread would not help us much, particularly considering the intensive discussion already happened so far.* *As a result, let’s close the email thread without sending an LS to RAN2.*Since we are not going to recommend / suggest any update is necessary or express any concern on the MAC spec, I am not sure any practical difference to RAN2 by sensing such reply LS, especially when it says “RAN2 respectfully requests RAN1 to provide feedback in case of any concern on the MAC specification above.” Therefore, by not sending a response to RAN2 in the last meeting, this issue was closed to my understanding.If there is a strong desire to re-open this discussion to find an exact / appropriate wording that everybody can agree to, we suggest to pick up where we left off in the last meeting and not re-discuss technical issues again from the beginning. And focus only on Q2 from RAN2, where there was also no agreement to send a reply LS (expressing concerns or lack of them) for Q1 in thread [105-e-NR-5G\_V2X-02] from the last meeting. |
| LG Electronics | Agree with the initial assessment. |
| Huawei, HiSilicon | In RAN2’s LS to RAN1, i.e., x4559, the question is:***“Q2****: RAN2 respectfully requests RAN1 to provide feedback in case of any concern on the MAC specification above*.”As per Q2 above, if there is no consensus on any concern or action, RAN1 does not need to reply to RAN2.This issue has been intensively discussed in RAN1#105-e, with the issue closed by the email sent by the chairman (see OPPO’s comment above). It’s clear that there was no consensus on whether there is any concern. Considering very few companies submit Tdocs in this meeting, we consider this issue as still closed, i.e., no need for further discussion and the situation is the same as last meeting.There should be no return to this closed issue. |
| ZTE | Further email discussion is not needed. This issue has been discussed in last RAN1 meeting in the email thread [105-e-NR-5G\_V2X-02]. And RAN1 has reached an agreement for completing the corresponding RAN1 spec. There was no concern on RAN2’s WA and the MAC specification in RAN2’s LS. |
| Qualcomm | This was already discussed and concluded in RAN1 105 as part of [105-e-NR-5G\_V2X-07]. We don’t see the need to revisit this topic.  |

# Conclusions

All incoming LSs are noted. The following incoming LSs will be further discussed for possible RAN1 action in RAN1#106-e.

TBD: List of email threads