**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)

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| **Initial assessment** | Email discussion under agenda item 5.2. |
| **Relevant tdocs (if any)** | R1-2106924 (CATT) |
| **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. |

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

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| **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. |

### 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. |

### 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.  |

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

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| --- | --- |
| **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.  |

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

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| --- | --- |
| **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.  |

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

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| --- | --- |
| **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.  |

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

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| --- | --- |
| **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” |

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

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| --- | --- |
| **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.  |

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

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| **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.  |

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

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| --- | --- |
| **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.  |

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

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| --- | --- |
| **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.  |

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

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| --- | --- |
| **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.  |

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

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| --- | --- |
| **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. |

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

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| --- | --- |
| **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.  |

### 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.  |

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

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| --- | --- |
| **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.  |

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

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| **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.  |

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

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| **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.  |

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

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| --- | --- |
| **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.  |

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

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| --- | --- |
| **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.  |

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

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| **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), R1-2108075 (ZTE, Sanechips), R1-2108125 (Nokia, Nokia Shanghai Bell), R1-2108127 (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.  |

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

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| **Initial assessment** | Email discussion under agenda item 7.2.6. |
| **Relevant tdocs (if any)** | R1-2106786 (ZTE), R1-2107228 (OPPO), 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.  |

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

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| --- | --- |
| **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.  |

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

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| --- | --- |
| **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.  |

## 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)

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| --- | --- |
| **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.  |

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)

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| **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. |

# 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