**3GPP TSG RAN WG1 #107-e R1-210XXXX**

**e-Meeting, November 11th – 19th, 2021**

**Source: RAN1 Chair**

**Title: Incoming LS handling for RAN1#107-e**

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

# Introduction

This document summarizes the contributions submitted to Agenda Item 5 (Incoming Liaison Statements) in RAN1#107-e and identifies a set of LS that needs to be addressed in the email discussion phase of RAN1#107-e.

# Summary

## Incoming LSs “To RAN1”

### *LTE\_eMTC5-Core*

R1-2110754 Reply LS on RSS-based RSRQ RAN4, Huawei

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| **Initial assessment** | RAN1 to consider RAN4 response as part of the ongoing work under agenda item 6. |
| **Company** | **Views (if any)** |
| Nokia, NSB | No specific RAN1 action, no separate thread needed. OK with the initial assessment. |
| Samsung | Agree with the initial assessment. |
| Huawei, HiSilicon | No RAN1 action is needed. |
| ZTE | Agree with the initial assessment. No RAN1 discussion/action is needed. |

### *NR\_IIOT-Core*

R1-2110755 LS to RAN1 on UL skipping with LCH-based prioritization RAN2, vivo

**Relevant tdoc(s) under agenda item 5:**

R1-2112409 Draft reply LS on UL skipping with LCH prioritization Huawei, HiSilicon

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| **Initial assessment** | RAN1 to consider RAN2 response as part of the ongoing work under agenda item 7.2.5 including need for a reply LS. |
| **Company** | **Views (if any)** |
| Nokia, NSB | Agree with the initial assessment. Nokia input addressing the matter in R1-2111682 |
| NTT DOCOMO | Agree with the initial assessment |
| Samsung | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with the Chairman’s initial assessment. Besides the HW input in this matter in AI 5 which is copied above, it is also part of our discussion paper R1-2110814 in 7.2.5 on the broader aspects related to LCH based prioritization and UL skipping. |
| vivo | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment |
| Qualcomm | Agree that whether RAN1 confirms the RAN2’s WA or not can be discussed under AI 7.2.5. |

### *Initial state of elements controlled by MAC CEs*

R1-2110756 LS on initial state of elements controlled by MAC CEs RAN2, Huawei

**Relevant tdoc(s) under agenda item 5:**

R1-2110969 Draft reply LS on initial state of elements controlled by MAC CEs vivo

R1-2111208 Draft Reply LS on initial state of elements controlled by MAC CEs CATT

R1-2111710 Draft reply LS on initial state of elements controlled by MAC CEs Samsung

R1-2111789 [Draft] Reply LS on initial state of elements controlled by MAC CEs ZTE

R1-2111936 Views on initial state of elements controlled by MAC CEs Huawei, HiSilicon

R1-2111937 Draft Reply LS on initial state of elements controlled by MAC CEs Huawei, HiSilicon

R1-2112186 Draft reply LS on initial state of elements controlled by MAC CEs Qualcomm Incorporated

R1-2112328 Discussion regarding LS reply on initial state of elements controlled by MAC CEs Ericsson

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| **Initial assessment** | Response LS needed. To be handled under agenda item 5. Separate email thread: [107-e-AI5-LSs-01]. |
| **Company** | **Views (if any)** |
| Nokia, NSB | Agree with the initial assessment |
| CATT | Agree with the initial assessment. |
| NTT DOCOMO | Agree with the initial assessment |
| Samsung | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree. |
| vivo | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |

### *NR\_L1enh\_URLLC-Core*

R1-2110757 LS on PDCCH Blind Detection in CA RAN2, Huawei

**Relevant tdoc(s) under agenda item 5:**

R1-2110906 [Draft] Reply LS on PDCCH Blind Detection in CA ZTE

R1-2110971 Discussion on RAN2 LS on PDCCH Blind Detection in CA vivo

R1-2111709 Discussion on RAN2 LS on blind detection in CA Samsung

R1-2112407 Draft reply LS on PDCCH Blind Detection in CA Huawei, HiSilicon

R1-2111168 On UE features for PDCCH Blind Detection in CA Nokia, Nokia Shanghai Bell

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| **Initial assessment** | Response LS needed. To be handled under agenda item 7.2.5. Separate email thread: [107-e-NR-L1enh-URLLC-01]. |
| **Company** | **Views (if any)** |
| Nokia, NSB | Nokia Tdoc submitted to 7.2.11 (R16 UE features) in R1-2111168, added to the list above. Could be handled in 7.2.11 rather than 7.2.5, but what matters is that it is handled. |
| CATT | Agree with the initial assessment. |
| NTT DOCOMO | As pointed by Nokia, the same issue is also discussed in AI 7.2.11 as the questions from RAN2 in the LS are regarding UE capabilities. We are fine to discuss the issue and possible reply LS either in AI 7.2.5 or AI 7.2.11. |
| Samsung | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with the Chairman’s initial assessment.  Note that there is one paper submitted under 7.2.5 and one paper submitted under 7.2.11 also. These papers will be treated together. It could work in either agenda 7.2.5 or agenda 7.2.11, but it seems 7.2.5 as suggested by Chairman above is slightly better, because before discussing on how to change the UE feature groups, some other aspects (e.g. span arrangement) are needed to be discussed first, since different views are observed already from the submitted papers. Span arrangement was originally discussed and defined under agenda 7.2.5. |
| vivo | Agree with the initial assessment. |
| ZTE | Rely LS is needed. We are ok to handle it under either 7.2.5 or 7.2.11. |
| Qualcomm | Agree with the initial assessment. |

### *RMSI reception based on non-zero search space*

R1-2110758 LS on RMSI reception based on non-zero search space RAN2, OPPO

**Relevant tdoc(s) under agenda item 5:**

R1-2110905 [DRAFT] Reply LS on RMSI reception based on non-zero search space ZTE

R1-2110970 Discussion on RAN2 LS on RMSI reception based on non-zero search space vivo

R1-2111334 Discussion on RMSI reception based on non-zero search space OPPO

R1-2111335 Reply LS on RMSI reception based on non-zero search space OPPO

R1-2111938 Views on RMSI reception based on non-zero search space Huawei, HiSilicon

R1-2112187 Discussion on RMSI reception based on non-zero search space Qualcomm Incorporated

R1-2112360 On RMSI reception based on non-zero search space Ericsson

R1-2112373 On RMSI reception based on non-zero search space Nokia, Nokia Shanghai Bell

R1-2112374 [DRAFT] Response LS on RMSI reception based on non-zero search space Nokia, Nokia Shanghai Bell

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| **Initial assessment** | Response LS needed. To be handled under agenda item 5. Separate email thread: [107-e-AI5-LSs-02]. |
| **Company** | **Views (if any)** |
| Nokia, NSB | Agree with the initial assessment. |
| CATT | Agree with the initial assessment. |
| NTT DOCOMO | Agree with the initial assessment |
| Samsung | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with the initial assessment. |
| vivo | Agree with the initial assessment. |
| OPPO | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| Qualcomm | Agree with the initial assessment. |

## LSs “CC: RAN1”

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

R1-2110759 LS Reply on UE Power Saving SA2, Huawei

R1-2110760 LS on PC5 DRX for ProSe SA2, LG Electronics

## Others

### *NR\_RRM\_enh2-Core (R1-2108704 from RAN1#106bis-e)*

R1-2108704 LS on beam information of PUCCH SCell in PUCCH SCell activation procedure Huawei

**Relevant tdoc(s) under agenda item 5:**

R1-2111843 Discussion on RAN4 LS R1-2108704 on beam information of PUCCH Scell in PUCCH SCell activation procedure Apple

R1-2112184 Discussion on LS on beam information of PUCCH SCell in PUCCH SCell activation procedure Qualcomm Incorporated

R1-2112402 Discussion on beam information of PUCCH SCell in PUCCH SCell activation procedure Huawei, HiSilicon

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| **Initial assessment** | Response LS needed. To be handled under agenda item 5. Separate email thread: [107-e-AI5-LSs-03]. |
| **Company** | **Views (if any)** |
| Nokia, NSB | Agree with the initial assessment. |
| CATT | Agree with the initial assessment. |
| NTT DOCOMO | Agree with the initial assessment |
| Samsung | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with the initial assessment. In last meeting, a consensus is to continue the discussion this meeting. |
| vivo | Agree with the initial assessment. Hopefully people can be more constructive this time. |
| ZTE | Ok to continue the discussion this meeting. |
| Qualcomm | Agree with the initial assessment. |

### *NR\_RF\_FR1-Core (R1-2106431 from RAN1#106-e)*

R1-2106431 LS on UL MIMO coherence for Tx switching between two carriers China Telecom

**Relevant tdoc(s) under agenda item 5:**

R1-2112185 Discussion on UL MIMO Coherence capability Qualcomm Incorporated

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| **Initial assessment** | To be handled under agenda item 7.2.11. |
| **Company** | **Views (if any)** |
| Nokia, NSB | Agree with the initial assessment |
| CATT | Agree with the initial assessment. |
| NTT DOCOMO | Agree with the initial assessment |
| Samsung | Agree with the initial assessment. |
| Huawei, HiSilicon | OK to transfer it to AI 7.2.11 |
| vivo | Agree with the initial assessment |
| ZTE | Agree with the initial assessment |

### *NR\_MBS-Core (R1-2106410 from RAN1#106-e)*

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

**Relevant tdoc(s) under agenda item 5:**

R1-2112311 Discussion on RAN2 LS on broadcast session delivery about MCCH design MediaTek Inc.

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| **Initial assessment** | To be handled under agenda item 8.12 including the need for a reply LS. |
| **Company** | **Views (if any)** |
| Nokia, NSB | Agree with the initial assessment |
| CATT | Agree with the initial assessment. |
| NTT DOCOMO | Agree with the initial assessment |
| Samsung | Agree with the initial assessment. |
| Huawei | Agree with the initial assessment.  Ok to continue discussing some remaining open issues in AI 8.12.3, though agreements have been reached in the Oct meeting for some issues in R1-2112311. |
| OPPO | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment |

### *FS\_XRTraffic, FS\_NR\_XR\_eval (R1-2104023 from RAN1#104bis-e)*

R1-2104023 LS on Status Update on XR Traffic SA4, Qualcomm

**Relevant tdoc(s) under agenda item 5:**

R1-2112406 Discussion on LS on Status Update on XR Traffic Huawei, HiSilicon

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| **Initial assessment** | To be handled under agenda item 8.14. |
| **Company** | **Views (if any)** |
| Nokia, NSB | Agree with the initial assessment |
| CATT | Agree with the initial assessment. |
| NTT DOCOMO | Agree with the initial assessment |
| Samsung | Agree with the initial assessment. |
| Huawei, HiSilicon | Initial assessment is OK, though a reply is not necessarily needed at all. |
| vivo | This LS may be discussed in XR agenda if time permitted. But there is no need to require any further support from SA4.  RAN1 has done the studies with the statistical model based on the analysis of SA4 traces. |
| ZTE | No need for discussion given the lack of interest from previous meetings. |

### *NR\_REDCAP (R1-2108714 from RAN1#106bis-e)*

R1-2108714 LS on capability related RAN2 agreements for RedCap RAN2, Ericsson

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| **Initial assessment** | Response LS needed. To be handled under agenda item 8.16.6. Separate email thread: [107-e-R17-UE-features-REDCAP-02]. |
| **Company** | **Views (if any)** |
| Nokia, NSB | Agree with the initial assessment |
| CATT | Agree with the initial assessment. |
| NTT DOCOMO | Agree with the initial assessment |
| Samsung | Agree with the initial assessment. |
| Nokia, NSB | Agree with the initial assessment |
| vivo | Agree with the initial assessment |
| ZTE | Agree with the initial assessment |
| Qualcomm | 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#107-e.

* TBD