**3GPP TSG RAN WG1 #108-e**

**e-Meeting, February 21st – March 3rd, 2022**

**Source: RAN1 Chair**

**Title: Incoming LS handling for RAN1#108-e**

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

# Introduction

This document summarizes the contributions submitted to Agenda Item 5 (Incoming Liaison Statements) in RAN1#108-e and identifies a set of LS that needs to be addressed in the email discussion phase of RAN1#108-e.

# Summary

## Incoming LSs “To RAN1”

### *Rel-15 NR\_newRAT*

[R1-2200873](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200873.zip) LS on configuration of p-MaxEUTRA and p-NR-FR1 RAN5, Huawei

|  |  |
| --- | --- |
| **Initial assessment** | RAN5 has requested RAN1 input on power configuration scheme and associated signalling for EN-DC mode. Response LS needed. Use separate email thread [108-e-AI5-LSs-01] under agenda item 5. |
| **After company comments** | Same as above. Email thread title will be revised. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share.** |
| Samsung | The email thread would be [108-e-AI5-LS-01]. |
|  |  |

### *Rel-16 NR\_pos*

[R1-2200856](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200856.zip) Response LS on updated Rel-16 RAN1 UE features lists for NR after RAN1#105-e RAN2, Intel

|  |  |
| --- | --- |
| **Initial assessment** | RAN1 to consider the LS from RAN2 as part of the ongoing work under agenda item 7.2.11. |
| **After company comments** | Same as above. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share.** |
|  |  |

### *Rel-16 5G\_V2X\_NRSL*

[R1-2200866](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200866.zip) LS on PEMAX for NR-V2X RAN4, Huawei, CATT

|  |  |
| --- | --- |
| **Initial assessment** | RAN4 has requested RAN1 input on PEMAX for NR-V2X. Response LS needed. Use separate email thread [108-e-R16-V2X-01] under agenda item 7.2.4. |
| **After company comments** | Same as above. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share.** |
|  |  |

### *Rel-16 NR\_eMIMO*

[R1-2200872](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200872.zip) LS on UE capability for supporting single DCI transmission schemes for multi-TRP RAN4, Apple

|  |  |
| --- | --- |
| **Initial assessment** | RAN4 has requested RAN1 clarify whether explicit signaling of *maxNumberActiveTCI-PerBWP* other than *n1* is required for single DCI FDM and SDM transmission schemes or the UE capability of *supportFDM-SchemeA-r16*. Response LS needed. Use separate email thread [108-e-R16-NR-MIMO-01] under agenda item 7.2.6. |
| **After company comments** | Same as above. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share.** |
|  |  |

### *Rel-17 LTE\_NR\_DC\_enh2*

[R1-2200854](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200854.zip) LS on TRS-based SCell activation details RAN2, OPPO

[R1-2200890](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200890.zip) LS on RAN2 agreements for TRS-based Scell activation RAN2, OPPO

|  |  |
| --- | --- |
| **Initial assessment** | RAN2 has requested RAN1 input on TRS-based SCell activation details. Response LS needed. Both [R1-2200854](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200854.zip) and [R1-2200890](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200890.zip) are to be discussed as part of email discussion in [108-e-NR-DSS-02] under agenda item 8.13.2. |
| **After company comments** | Same as above. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share.** |
|  |  |

### *Rel-17 NR\_pos\_enh*

[R1-2200857](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200857.zip) Response LS on Positioning Reference Units (PRUs) for enhancing positioning performance RAN2, Qualcomm, Datang Mobile

|  |  |
| --- | --- |
| **Initial assessment** | RAN2 has requested RAN1 input on LMF determined "correction information" obtained from PRU measurements. Response LS needed. To be discussed as part of email discussion in [108-e-R17-Pos-01] under agenda item 8.5.1. |
| **After company comments** | Same as above. Email thread title will be revised. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share.** |
| FUTUREWEI | R1-2200857 and R1-2200862 need to be considered together as they are both replies to the same RAN1 LS. Response LS may *not* be needed for Rel-17 anymore, so suggest changing assessment to response LS may or may not be needed. |
| CATT | We are fine to consider R1-2200857 and R1-2200862 either together or separately. In our view, a response LS to R1-2200857 is needed. |
| Huawei, HiSilicon | Thread ID should be “-ePos”. |
| Ericsson | Although we provided a draft reply LS, we tend to agree with the comment from FUTUREWEI that R1-2200857 and R1-2200862 together as they are reply LS to the same LS sent out by RAN1. In R1-2200862, SA2 already replied that it does not have time in Rel-17 to consider PRUs. Hence, an LS reply from RAN1 may not be needed in Rel-17 for PRUs. |

[R1-2200878](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200878.zip) Response LS on the reporting of the Tx TEG association information RAN2, CATT

|  |  |
| --- | --- |
| **Initial assessment** | RAN2 has requested RAN1 input on RRC parameter for Rel-17 positioning. Response LS needed. To be discussed as part of email discussion in [108-e-R17-RRC-ePos] under agenda item 8.5. |
| **After company comments** | Same as above. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share.** |
|  |  |

[R1-2200900](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200900.zip) LS on SRS for multi-RTT positioning RAN4, Huawei

|  |  |
| --- | --- |
| **Initial assessment** | RAN4 has requested RAN1 to confirm whether Rel-15 SRS is applicable for UE Rx-Tx time difference measurement and gNB Rx-Tx time difference measurement, and if so, from which release. Response LS needed. To be discussed as part of email discussion in [108-e-R17-ePos-01] under agenda item 8.5.1. |
| **After company comments** | Same as above. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share.** |
|  |  |

[R1-2200903](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200903.zip) LS on the applicability of PRS processing window in RRC\_INACTIVE state RAN4, CATT

|  |  |
| --- | --- |
| **Initial assessment** | RAN4 has requested RAN1 to confirm the applicability of PRS processing window in RRC\_INACTIVE state. Response LS needed. To be discussed as part of email discussion in [108-e-R17-ePos-06] under agenda item 8.5.6. |
| **After company comments** | Same as above. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share.** |
|  |  |

[R1-2200889](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200889.zip) Reply LS on latency improvement for PRS measurement with MG RAN2, Nokia

[R1-2200899](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200899.zip) Reply LS on lower Rx beam sweeping factor for latency improvement RAN4, CATT

[R1-2200901](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200901.zip) LS reply on UL SRS-RSRPP definition RAN4, Ericsson

[R1-2200902](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200902.zip) Reply LS on reporting of the Tx TEG association information RAN4, Huawei

[R1-2200905](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200905.zip) Reply LS on reporting and definition of DL PRS path RSRP RAN4, Nokia Bell Labs

|  |  |
| --- | --- |
| **Initial assessment** | RAN1 to consider the LSs listed above as part of the ongoing work under agenda item 8.5. |
| **After company comments** | RAN1 to consider the LSs listed above as part of the ongoing work under agenda item 8.5.3. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share.** |
| Qualcomm | We suggest to be discussed as part of email discussion in [108-e-R17-ePos-03] under agenda item 8.5.3. |

### *Rel-17 NR\_feMIMO*

[R1-2200859](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200859.zip) LS on MPE information signalling RAN2, Nokia

[R1-2200887](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200887.zip) LS on feMIMO RRC parameters RAN2, Ericsson

|  |  |
| --- | --- |
| **Initial assessment** | [R1-2200859](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200859.zip): RAN2 has requested input on whether the Rel-17 MPE reporting changes are applicable to mTRP framework. Response LS needed.  [R1-2200887](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200887.zip): RAN2 has requested clarification on RRC parameter on multiple feMIMO agenda items. Response LS needed.  Both [R1-2200859](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200859.zip) and [R1-2200887](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200887.zip) are to be discussed as part of email discussion in [108-e-R17-RRC-NR-MIMO] under agenda item 8.1. |
| **After company comments** | Same as above |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share.** |
| OPPO | As Rel-17 MPE reporting has been discussing under AI 8.1.1, **we slightly prefer to discuss the response LS of R1-2200859 under AI 8.1.1 as well**.  But if the moderator deems AI 8.1.1 should focus on handling R1-2200861 (L1/L2-centric inter-cell mobility), then we are fine to have R1-2200859 (MPE-related) discussed here (AI 8.1) along with the response of RRC parameters. |

[R1-2200861](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200861.zip) Reply LS Reply on TCI State Update for L1L2-Centric Inter-Cell Mobility to RAN3 RAN3, ZTE

|  |  |
| --- | --- |
| **Initial assessment** | RAN3 has requested input on RAN1’s understanding of terminology related to inter-cell. Response LS needed. To be discussed as part of email discussion in [108-e-R17-NR-MIMO-01] under agenda item 8.1.1. |
| **After company comments** | Same as above. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share** |
|  |  |

[R1-2200886](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200886.zip) LS on Enhanced TCI state indication for UE-specific PDCCH MAC CE RAN2, Samsung

|  |  |
| --- | --- |
| **Initial assessment** | RAN2 has requested confirmation on whether “Enhanced TCI state indication for UE specific PDCCH MAC CE” can be applied to CORESET zero or not. Response LS needed. To be discussed as part of email discussion in [108-e-R17-NR-MIMO-02] under agenda item 8.1.2.4. |
| **After company comments** | Same as above. Email thread title will be revised to [108-e-R17-NR-MIMO-06]. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share** |
| Qualcomm | If we are not mistaken, the email thread for agenda item 8.1.2.4 might be [108-e-R17-NR-MIMO-06]? |

[R1-2200895](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200895.zip) LS on Rel-17 FeMIMO SRS related impact RAN4, Huawei

|  |  |
| --- | --- |
| **Initial assessment** | RAN4 has requested input on Rel-17 SRS enhancement. Response LS needed. To be discussed as part of email discussion in [108-e-R17-MIMO-07] under agenda item 8.1.3. |
| **After company comments** | RAN1 to consider the LS listed above as part of the ongoing work under agenda item 8.1.3. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share** |
| Huawei, HiSilicon | In R1-2200895 RAN4 just provided their discussion outcomes on Q1 and Q2, and will continue work on these issues, without requesting RAN1 input. Thus RAN1 should take the LS into account in discussion of [108-e-R17-MIMO-07], but no response LS is needed so far. |
| ZTE | We would like to seek for clarification on what to discuss if this LS needs to be replied.  Indeed, there are two questions listed in this LS, but the LS clearly says RAN4 will continue to discuss these two questions. Further, RAN4 actually does not request RAN1 to provide response on these two question. RAN4’s request is just to ask RAN1 to consider the information the LS delivers. In addition, based on our assessment, these two questions fall into the expertise of RAN4 instead of RAN1. |

### *Rel-17 NR\_ENDC\_SON\_MDT\_enh (NR-U)*

[R1-2200860](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200860.zip) LS on NR-U channel information and procedures RAN3, Samsung

|  |  |
| --- | --- |
| **Initial assessment** | RAN3 has requested input on NR-U channel information and procedures. Response LS needed. RAN2 LS to RAN3 in R1-2200891 (cc-ed to RAN1) is related and implies need for RAN1 involvement. Use separate email thread [108-e-AI5-LS-01] under agenda item 5. |
| **After company comments** | RAN3 has requested input on NR-U channel information and procedures. Response LS needed. RAN2 LS to RAN3 in R1-2200891 (cc-ed to RAN1) is related and implies need for RAN1 involvement. Use separate email thread [108-e-R16-NR-U-01] under agenda item 7.2.2. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share** |
| vivo | Agree with the initial assessment, the email thread number should be [108-e-AI5-LS-02] instead |
| Ericsson | Our view is that this issue should be treated under 7.2.2 (NR-U Rel-16 maintenance) since the discussion involves aspects of NR-U operation (channel access and wideband operation with RB sets). |

### *Rel-17 5G\_eLCS\_ph2*

[R1-2200862](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200862.zip) Response LS on Positioning Reference Units (PRUs) for enhancing positioning performance SA2, CATT

|  |  |
| --- | --- |
| **Initial assessment** | RAN1 to consider the LS from SA2 as part of the ongoing work under agenda item 8.5. |
| **After company comments** | RAN1 to consider the LS from SA2 together with R1-2200857 as part of the ongoing work under agenda item 8.5.1. If response is needed for any of the two LSs, use [108-e-R17-ePos-01] to converge on a response. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share** |
| FUTUREWEI | R1-2200857 and R1-2200862 need to be considered together as they are both replies to the same RAN1 LS. |
| CATT | R1-2200862 can be discussed under AI 8.5.1. We are fine either it is discussed together with [R1-2200857](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200857.zip) or separately. |

### *Rel-17 NR\_NTN\_solutions*

[R1-2200869](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200869.zip) Reply LS on NTN UL time and frequency synchronization requirements RAN4, Xiaomi

[R1-2200870](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200870.zip) Reply LS on combination of open and closed loop TA control in NTN RAN4, Qualcomm

[R1-2200875](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200875.zip) LS on NTN-specific SIB RAN2, Huawei

|  |  |
| --- | --- |
| **Initial assessment** | RAN1 to consider the LSs listed above as part of the ongoing work under agenda item 8.4. |
| **After company comments** | RAN1 to consider [R1-2200869](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200869.zip) and [R1-2200870](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200870.zip) as part of the ongoing work under agenda item 8.4.2.  For [R1-2200875](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200875.zip), to be discussed as part of part of email discussion in [108-e-R17-NR-NTN-01] under agenda item 8.4.1. If response is needed, use the same email thread to converge on a response. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share** |
| OPPO | Agree with initial assessment. More specifically, these LS can be treated under agenda item 8.4.2. |
| Huawei, HiSilicon | RAN2 is expecting RAN1 reply on whether there is any issue with NTN-specific SIB design. Suggest to discuss as part of email discussion in [108-e-R17-NR-NTN-01] under agenda item 8.4.1 |

[R1-2200883](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200883.zip) Reply LS on NR NTN Neighbor Cell and Satellite Information RAN2, Qualcomm

|  |  |
| --- | --- |
| **Initial assessment** | RAN2 has requested input from RAN1 on whether common TA parameters of the neighbor cells need to be provided to the UEs for neighbor cell measurements. Response LS needed. To be discussed as part of email discussion in [108-e-R17-NR-NTN-02] under agenda item 8.4.2. |
| **After company comments** | Same as above. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share** |
|  |  |

### *Rel-17 NR\_RRM\_enh2*

[R1-2200871](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200871.zip) LS on interruption for PUCCH SCell activation in invalid TA case RAN4, MediaTek, CATT

|  |  |
| --- | --- |
| **Initial assessment** | RAN4 has requested input from RAN1 on the interruption requirements during PUCCH SCell activation. Response LS needed. Use separate email thread [108-e-AI5-LS-02] under agenda item 5. |
| **After company comments** | Same as above. Email thread title will be revised if necessary. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share** |
| vivo | Agree with the initial assessment, the email thread number should be [108-e-AI5-LS-03] instead |
| CATT | We agree to use separate email thread under AI 5 for the discussion. One thing we would like to comment is that RAN2 is waiting for RAN1’s reply to start their discussion. Therefore, it is desirable to set an earlier deadline for this email thread so that RAN2 can start their discussion earlier. |

[R1-2200896](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200896.zip) LS on the PL-RS configuration of PUCCH SCell to be activated RAN4, Apple

|  |  |
| --- | --- |
| **Initial assessment** | RAN4 has requested input from RAN1 on the PL-RS configuration used for PUCCH transmission on target being-activated SCell during the activation procedure. Response LS needed. Use separate email thread [108-e-AI5-LS-03] under agenda item 5. |
| **After company comments** | Same as above. Email thread title will be revised if necessary. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share** |
| vivo | Agree with the initial assessment, the email thread number should be [108-e-AI5-LS-04] instead |

### *Rel-17 NR\_ext\_to\_71GHz*

[R1-2200874](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200874.zip) Reply LS on initial access for 60 GHz RAN2, Intel

[R1-2200894](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200894.zip) LS for the channelization for up to 71 GHz RAN4, CATT

[R1-2200897](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200897.zip) Reply LS on the minimum time gap for wake-up and Scell dormancy indication for NR operation in 52.6 to 71 GHz RAN4, vivo

|  |  |
| --- | --- |
| **Initial assessment** | RAN1 to consider the LSs listed above as part of the ongoing work under agenda item 8.2. |
| **After company comments** | Same as above. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share** |
|  |  |

### *Rel-17 NR\_redcap*

[R1-2200876](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200876.zip) Reply LS on the use of NCD-SSB or CSI-RS in DL BWPs for RedCap UEs RAN2, Ericsson

[R1-2200877](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200877.zip) LS on RSRP measurement before Msg1 or MsgA retransmission RAN2, Ericsson

[R1-2200898](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200898.zip) Reply LS on use of NCD-SSB for RedCap UE RAN4, ZTE

[R1-2200904](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200904.zip) Reply LS on use of NCD-SSB or CSI-RS in DL BWPs for RedCap UE RAN4, vivo

|  |  |
| --- | --- |
| **Initial assessment** | RAN1 to consider the LSs listed above as part of the ongoing work under agenda item 8.6. |
| **After company comments** | RAN1 to consider the LSs listed above as part of the ongoing work under agenda item 8.6 and 8.16.6. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share** |
| Qualcomm | Since NCD-SSB will be transmitted in RRC-configured DL BWP of R17 RedCap UE in FR1/FR2, we think RedCap UE’s measurements based on NCD-SSB can be included as an additional component of FG 28-1. Therefore, we propose to address the LS from RAN2 and RAN4 in R17 RedCap UE feature discussion (AI: 8.16.6) as well. |
| Ericsson | All four LSs are relevant for the email discussion for 8.6.1.1 (UE bandwidth reduction aspects), but as pointed out by Qualcomm, the three NCD-SSB related LSs are also relevant for the email discussion for 8.16.6 (UE feature list for RedCap). About 80% of the contributions submitted under 8.16.6 discuss NCD-SSB related capabilities. |

### *Rel-17 NR\_cov\_enh*

[R1-2200879](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200879.zip) LS on Stage 2 description for Coverage Enhancements RAN2, China Telecom

|  |  |
| --- | --- |
| **Initial assessment** | RAN2 has requested confirmation on text proposal for 38.300 related to Rel-17 coverage enhancements. Response LS needed. Use separate email thread [108-e-R17-CovEnh-06] under agenda item 8.8. |
| **After company comments** | Same as above. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share** |
|  |  |

[R1-2200885](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200885.zip) LS on UL BWP with PRACH resources only for RACH with Msg3 repetition RAN2, Qualcomm

|  |  |
| --- | --- |
| **Initial assessment** | RAN2 has requested RAN1 input on the feasibility of a dedicated UL BWP configured with only CE RACH resources. Response LS needed. To be discussed as part of email discussion in [108-e-R17-CovEnh-05] under agenda item 8.8.3. |
| **After company comments** | Same as above. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share** |
|  |  |

[R1-2200908](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200908.zip) Reply LS on Maximum duration for DMRS bundling RAN4, Qualcomm

|  |  |
| --- | --- |
| **Initial assessment** | RAN1 to consider the LS from RAN4 as part of the ongoing work under agenda item 8.8. |
| **After company comments** | RAN1 to consider the LS from RAN4 as part of the ongoing work under agenda item 8.8 and 8.16.8. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share** |
| Huawei, HiSilicon | Agree on the initial assessment in general. Since the LS is about UE capability maximum duration, it could be also considered in AI 8.16.8, in addition to AI 8.8. |

### *Rel-17 NR\_SL\_enh*

[R1-2200880](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200880.zip) LS to RAN1 on Inter-UE coordination RAN2, Intel

|  |  |
| --- | --- |
| **Initial assessment** | RAN1 to consider the LS from RAN2 as part of the ongoing work under agenda item 8.11. |
| **After company comments** | To be discussed as part of email discussion in [108-e-R17-Sidelink-02] under agenda item 8.11.1.2. If response to RAN2 is needed, use the same email thread to converge on a response. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share** |
| Samsung | Since RAN2 also has provided the list of Inter-UE coordination (IUC) issues on which RAN2 mainly relies on RAN1, it would be better for RAN1 to respond the relevant feedbacks.It can be discussed under AI 8.11.1.2 |
| Intel | Agree with Samsung. AI 8.11.1.2. |
| Spreadtrum | Agree with Samsung. AI 8.11.1.2. |
| ZTE | Agree with Samsung. AI 8.11.1.2. |

### *Rel-17 NR\_SmallData\_INACTIVE, NR\_redcap*

[R1-2200881](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200881.zip) Reply LS on the L1 aspects of small data transmission RAN2, ZTE

|  |  |
| --- | --- |
| **Initial assessment** | RAN2 has requested RAN1 confirmation on whether the separate BWP in case of REDCAP may still be considered as the initial BWP and SDT resources can hence be configured on this BWP for REDCAP UEs. Response LS needed. To be discussed as part of email discussion in [108-e-R17-SDT-01] under agenda item 5.2. |
| **After company comments** | Same as above. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share** |
|  |  |

### *Rel-17 NR\_MBS*

[R1-2200882](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200882.zip) LS on MBS issues RAN2, Huawei

[R1-2200888](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200888.zip) LS on MBS SPS RAN2, OPPO

|  |  |
| --- | --- |
| **Initial assessment** | R1-2200882: RAN2 has requested RAN1 confirmation on the following RAN2 assumption: a single CFR (indicated by *locationAndBandwidth-Broadcast*) is configured for MCCH/MTCH reception of MBS broadcast and it is common for MCCH and all MTCHs. Response LS needed.  R1-2200888: RAN2 has requested RAN1 input on MBS SPS. Response LS needed.  Potential response LSs for both [R1-2200882](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200882.zip) and [R1-2200888](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200888.zip) are to be discussed as part of email discussion in [108-e-R17-MBS-01] under agenda item 8.12.1. |
| **After company comments** | Potential response LS for [R1-2200888](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200888.zip) is to be discussed as part of email discussion in [108-e-R17-MBS-01] under agenda item 8.12.1.  Potential response LS for [R1-2200882](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200882.zip) is to be discussed as part of email discussion in [108-e-R17-MBS-03] under agenda item 8.12.3. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share** |
| CATT | We agree to discuss the LSs under Rel-17 MBS agenda item but we think R1-2200882 is related to AI 8.12.3 so we prefer to discuss reply LS for R1-2200882 under AI 8.12.3. |
| Spreadtrum | For R1-2200888, we agree with moderator that it can be discussed in 8.12.1.  For R1-2200882, since it is about CFR issue for MCCH/MTCH for broadcast, we slightly prefer to discuss it in AI 8.12.3. |
| OPPO | Agree with the initial assessment that both incoming LS need responses to RAN2 based on RAN1’s further discussion in details.   * [R1-2200882](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200882.zip) should be discussed as part of [108-e-R17-MBS-03] under agenda item 8.12.3, since it is related to the CFR configuration and indication for MCCH/MTCH reception of broadcast. Even broadcast can also be received by UEs in RRC\_CONNECTED states, the CFR design/configuration discussion was under AI 8.12.3 in the past meetings. * [R1-2200888](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200888.zip) can be discussed as part of [108-e-R17-MBS-01] under agenda item 8.12.1. |

### *Rel-17 NR\_UE\_pow\_sav\_enh*

[R1-2200884](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200884.zip) LS on PDCCH Skipping in RRC\_CONNECTED RAN2, Samsung

|  |  |
| --- | --- |
| **Initial assessment** | RAN2 has requested RAN1 input on PDCCH Skipping in RRC\_CONNECTED mode. Response LS needed. To be discussed as part of email discussion in [108-e-R17-PowSav-03] under agenda item 8.7.2. |
| **After company comments** | Same as above. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share** |
|  |  |

### *Rel-17 NR\_IAB\_enh*

[R1-2200906](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200906.zip) LS on range of power control parameters for eIAB RAN4, Samsung

|  |  |
| --- | --- |
| **Initial assessment** | RAN4 has requested RAN1 clarification on desired DL Tx power adjustment from an IAB-node to a parent node. Response LS needed. To be discussed as part of email discussion in [108-e-R17-eIAB-02] under agenda item 8.10.2. |
| **After company comments** | Same as above. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share** |
|  |  |

### *Rel-17 NR\_bands\_R17\_BWs*

[R1-2200907](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200907.zip) LS on CORESET#0 impact of CBW narrower than 40MHz of n79 RAN4, Samsung

|  |  |
| --- | --- |
| **Initial assessment** | RAN4 has requested RAN1 input on the support of channel bandwidth narrower than 40MHz in n79. Response LS needed. Use separate email thread [108-e-AI5-LS-05] under agenda item 5. |
| **After company comments** | Same as above. Email thread title will be revised if necessary. |
| **Company name** | **Provide comments below if there are different views from the moderator or if there’s anything else to share** |
|  |  |

### Any other issues not covered in 2.1.1~2.1.20

If there are any other issues not covered in subsections 2.1.1 ~ 2.1.20, companies are invited to provide additional views in the table below. Please include the tdoc numbers for the relevant incoming LS(s) and company contribution(s).

|  |  |
| --- | --- |
| **Company name** | **Comments** |
| Nokia | There were 60 incoming LSs and ~250 company contributions to AI5. It would be good to establish a practice that maps each company contribution to an incoming LS in the Tdoc list. E.g. an AI5 company Tdoc could be required to have the “Original LS” field populated in the Tdoc request. |
| Huawei, HiSilicon | Regarding R1-2202429, it is a follow-up discussion for the following agreement.  *RAN1#107e*  ***Agreement***  *In response to the LS from RAN4 on beam information of PUCCH Scell in PUCCH SCell activation procedure, the following RAN1 response is agreed. LS is endorsed in R1-2112858.*  *Q1: Whether UE can report CSI (e.g. L1-RSRP) of the target being-activated PUCCH SCell belonging to secondary PUCCH group by configuring CSI report setting (e.g. CSI-ReportConfig) on any active serving cells belonging to primary PUCCH group*  **FL proposal 1-1-rev:** There is no restriction in the current RAN1 specification that would not allow UE to report CSI of a SCell belonging to secondary/primary PUCCH group by PUSCH or PUCCH of active serving cells belonging to primary/secondary PUCCH group. But there is no RAN1 consensus on whether all UEs supporting NR-CA with dual PUCCH-groups for the BC support such CSI report in Rel-15 and Rel-16. Support of such CSI report is indicated in Rel-17 with a new UE capability   * potential CSI processing timeline relaxation for UEs reporting the new UE capability can be discussed.   <-- some remaining bullets omitted here-->  Therefore, we would like to know more chair’s guidance whether the new Rel-17 UE capability can be discussed in AI 8.16.17 or in AI 5. |
| **After company comments** | @Nokia: Appreciate the suggestion and fully agree with it. Will check with MCC to see if we can implemented in future meetings.  @Huawei/HiSi: Let’s handle the discussion under [108-e-R17-UE-features-Others-01]. |

## LSs “CC: RAN1”

[R1-2200855](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200855.zip) Reply LS on R17 NR MG enhancements – Concurrent MG RAN2, MediaTek

[R1-2200858](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200858.zip) Reply LS on specification impact for methods on efficient utilization of licensed spectrum that is not aligned with existing NR channel bandwidths RAN2, Nokia

[R1-2200863](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200863.zip) Reply LS on Response LS on Positioning Reference Units (PRUs) for enhancing positioning performance SA2, Huawei

[R1-2200864](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200864.zip) LS on Rel-16 updated RAN4 UE features lists for LTE and NR RAN4, CMCC

[R1-2200865](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200865.zip) LS on UL-MIMO coherence for Rel-17 Tx switching RAN4, China Telecom

[R1-2200867](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200867.zip) LS on NCSG RAN4, Apple

[R1-2200868](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200868.zip) LS on NR NTN Neighbor Cell and Satellite Information RAN4, Qualcomm

[R1-2200891](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200891.zip) Reply LS on NR-U channel information and procedures RAN2, Samsung

[R1-2200892](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200892.zip) LS on PDC for Time Synchronization RAN2, ZTE

[R1-2200893](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200893.zip) LS to RAN4 on RLM/BFD relaxation for ePowSav RAN2, vivo

[R1-2200909](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200909.zip) LS on Rel-17 RAN4 UE feature list for NR RAN4, CMCC

[R1-2200910](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200910.zip) Further reply LS on R17 NR MG enhancements – Concurrent MG RAN4, MediaTek inc.

[R1-2200911](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200911.zip) LS on R17 MG enhancement - NCSG RAN4, Apple

[R1-2200912](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200912.zip) LS on DRX cycle used in PRS measurement in RRC\_INACTIVE state RAN4, Qualcomm

[R1-2200913](file:///D:\Documents\3GPP%20documents\RAN1\TSGR1_108-e\Docs\R1-2200913.zip) LS on signalings for enabling RLM and BFD relaxation in R17 UE power saving RAN4, vivo

# Conclusions

All incoming LSs are noted. The following incoming LSs will be further discussed for possible RAN1 action in RAN1#107bis-e.

* TBD