**3GPP TSG-RAN WG1 #100b-e R1-2002736**

**e-Meeting, April 20th – 30th, 2020**

**Agenda item:** 5

**Source:** 3GPP TSG RAN1 Chairman

**Title:** Outcome of RAN1#100b-e preparation phase on incoming LS

**Document for:** Discussion/Decision

# Introduction

In this document, we will summarize contributions submitted to Agenda Item 5 of RAN1#100b-e, and identify a set of critical LSs (if any) that need to be addressed in the subsequent email discussion/approval phase .

# Summary

The list of contributions can be found in the References section. Herein we organize the LSs based on the respective topics. Note that the goal is to identify the LS **critical** to address during this e-Meeting.

## Incoming LSs “To RAN1”

### LTE

#### R1-2001517 LS on open PUR issues for NB-IoT/eMTC RAN2, Ericsson

Related contributions:

* [R1-2001849](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001849.zip) Discussion on RAN2 LS on open PUR issues ZTE
* [R1-2002501](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002501.zip) On the LS on open PUR issues for NB-IoT/eMTC Ericsson
* [R1-2002603](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002603.zip) Draft reply LS on open PUR issues for NB-IoT/eMTC Huawei, HiSilicon
* [R1-2002176](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002176.zip) Support for transmission in preconfigured UL resources Qualcomm Incorporated
* [R1-2002173](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002173.zip) Support for transmission in preconfigured UL resources Qualcomm Incorporated

Initial assessment:

* Specific actions to RAN1
* Noted; reply LS is necessary – target 2/23 for email approval, to be managed under 6.2.1/6.2.2

***Conclusion:***

* Email approval of the reply LS for R1-2001517 for both eMTC and NB-IoT by 4/23 under 6.2.2.2 (Ericsson, Johan)

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| --- | --- |
| **Company** | **Views** |
| Qualcomm | Agree with managing this topic under eMTC/NB-IoT |
| ZTE | We agree that a reply LS is necessary in this emeeting and it is to be treated under 6.2.1/6.2.2. |
| Huawei, HiSilicon | We agree with chairman that reply LS is necessary and it can be managed under the corresponding AI. Based on the response, RAN1 may need to work out the TP for TS 36.213.  Some companies also discussed this issue at least in AI 6.2.2.2 (e.g., R1-2001570, R1-2002176, R1-2001851), and the company views are already summarized in the FL summary of AI 6.2.2.2, i.e., Issue#1 in FLS R1-2002640.  Deadline would be 4/23 instead of 2/23. |
| Ericsson | We agree with the initial assessment and we propose that this LS reply is discussed in a single email thread jointly for LTE-MTC and NB-IoT. |
| LG Electronics | Agree with the initial assessment. We also think it would be more efficient if we discuss this topic for both LTE MTC and NB-IoT in a single e-mail thread. |
| Intel | Agree that reply LS is necessary. An email discussion is needed in order to:  Confirm that the L1-based adjustment of the number of (N)PUSCH repetitions is not intended to overwrite the RRC configuration but to be used instead of the configuration provided by RRC.  Clarify that the L1-based adjustment of the number of (N)PUSCH repetitions is stored and applied only to the next upcoming PUR UL transmission. The number of (N)PUSCH repetitions can be updated in the next L1-based adjustment. If the UE receives a reconfiguration message containing the (N)PUSCH repetitions number adjustment via L2/L3 then the UE use it. |
| Nokia | Discuss the underlying issue and LS reply in 6.2.2.2, already considered in the FL summary as high priority |

#### R1-2001518 LS on NR coexistence RAN2, Qualcomm

Related contributions:

* [R1-2001848](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001848.zip) Discussion on RAN2 LS on NR coexistence ZTE
* [R1-2002502](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002502.zip) On the LS on NR coexistence for NB-IoT/eMTC Ericsson
* [R1-2002602](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002602.zip) Draft reply LS on NR coexistence Huawei, HiSilicon
* [R1-2002175](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002175.zip) Coexistence of LTE-MTC with NR Qualcomm Incorporated
* [R1-2002177](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002177.zip) Coexistence of NB-IoT with NR Qualcomm Incorporated

Initial assessment:

* Specific actions to RAN1
* Noted; reply LS is necessary – target 2/23 for email approval, to be managed under 6.2.1/6.2.2

***Conclusion:***

* Email approval of the reply LS for R1-2001518 for both eMTC and NB-IoT by 4/23 under 6.2.2.4 (Qualcomm, Alberto)

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| **Company** | **Views** |
| Qualcomm | Agree with managing this topic under eMTC/NB-IoT |
| ZTE | We agree that a reply LS is necessary in this emeeting and it is to be treated under 6.2.1/6.2.2. |
| Huawei, HiSilicon | We agree with chairman that reply LS is necessary and it can be managed under the corresponding AI. Based on the response, RAN1’s impact may also be discussed.  Some companies also discussed this issue at least in AI 6.2.2.4 (e.g., R1-2001572, R1-2002177), and the company views are already summarized in the FL summary of AI 6.2.2.4, i.e., Issue#8 in FLS draft\_R1-2002700.  Deadline would be 4/23 instead of 2/23. |
| Ericsson | We agree with the initial assessment and we propose that this LS reply is discussed in a single email thread jointly for LTE-MTC and NB-IoT. |
| LG Electronics | Agree with the initial assessment. We also think it would be more efficient if we discuss this topic for both LTE MTC and NB-IoT in a single e-mail thread. |
| Intel | Agree that reply LS is necessary. An email discussion is needed on the set of coex-related parameters that can be common to reduce the amount of required signalling bits. |
| Nokia | Reply needed, should be discussed in 6.2.1.4/6.2.2.4. A single email thread should suffice. |

### NR

#### R1-2001505 LS on eMIMO RRC parameters RAN2, Ericsson

Related contributions:

* [R1-2001591](C:\\Users\\wanshic\\OneDrive - Qualcomm\\Documents\\Standards\\3GPP Standards\\Meeting Documents\\TSGR1_100b\\Docs\\R1-2001591.zip) Draft reply LS on eMIMO parameters ZTE
* [R1-2001637](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001637.zip) Draft reply LS on eMIMO RRC parameters vivo
* [R1-2001744](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001744.zip) Discussion on eMIMO RRC parameters OPPO
* [R1-2001909](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001909.zip) Draft reply LS on eMIMO RRC parameters LG Electronics
* [R1-2002058](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002058.zip) Draft reply LS on MIMO RRC parameters CATT
* [R1-2002099](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002099.zip) Draft reply to RAN2 LS on eMIMO RRC parameters Samsung
* [R1-2002285](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002285.zip) Draft LS reply on eMIMO RRC parameters Ericsson
* [R1-2002289](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002289.zip) Draft Reply LS to RAN2 on multi-TRP Nokia, Nokia Shanghai Bell
* [R1-2002672](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002672.zip) [Draft] Reply LS on eMIMO RRC parameters Huawei, HiSilicon

Initial assessment:

* There are specific actions to RAN1
* Noted; reply LS is necessary - target 04/23 for email approval

***Conclusion:***

* Email approval of the reply LS for R1-2001505 by 4/23 (Ericsson, Mattias

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| **Company** | **Views** |
| Samsung | Agree with the initial assessment.  Answers on the questions in LS:  Ql: Have no issues related to Question 1.  Q2: BDFactor should be configured per cell group.  Q3: Each repetition scheme is not needed to be mutually exclusive to each other from signalling perspective. Detailed condition had been already classified by RAN1.  Q4: Intention on the agreement is to activate per SRS resource. We have no issue in using one MAC CE to activate/deactivate spatial relations for >1 SRS resources.  Q5: Same as Rel-15/16.  - Maximum number of PUCCH resources in a PUCCH group: 128.  - Maximum number of serving cells per CC/BWP lists: 32. |
| vivo | Agree with the initial assessment |
| ZTE | We agree that a reply LS is necessary in this emeeting. |
| Huawei, HiSilicon | We agree that a reply LS is needed and details are to be discussed later. |
| Ericsson | We agree with chairman’s assessment that an reply LS is necessary for this LS. The questions asked in the LS span multiple MIMO agendas (UL Full power, multi-TRP, and beam management). As the discussions may be a bit involved, we were wondering if it will be more efficient to discuss the LS responses in multiple threads (I.e., one thread per agenda)? For the final LS reply the agreed RAN1 answers can be merged. |
| Apple | We agree that a reply LS is needed in this meeting |
| CATT | Agree with the initial assessment. |
| OPPO | We agree that a reply LS is needed in this meeting |
| Intel | We agree that LS reply is needed. |
| Nokia | Agree with the initial assesment |

#### R1-2001506 LS on random access procedure in NR-U RAN2, InterDigital

Related contributions:

* [R1-2001641](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001641.zip) Discussion on random access procedure in NR-U vivo
* [R1-2001718](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001718.zip) Discussion on the LS for the random access procedure in NR-U ZTE, Sanechips
* [R1-2001946](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001946.zip) Draft Reply LS on random access procedure in NR-U LG Electronics
* [R1-2002310](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002310.zip) Discussion on NR-U PRACH root sequence and random access procedure for 2-step RACH Apple

Initial assessment:

* There are a specific action to RAN1 (to capture it in 38.213)
* Noted; no need to reply the LS, but to capture the RAN2 agreements in 38.213 – email approval for the corresponding TP by 04/23, which is to be managed under NR-U AI

***Conclusion:***

* Email approval of the corresponding TP in light of R1-2001506 by 4/23 under NR-U AI

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| **Company** | **Views** |
| Samsung | Agree with the initial assessment. |
| vivo | Agree with the initial assessment |
| ZTE | Agree with the initial assessment |
| Huawei, HiSilicon | There are two sub-topics on the discussion of RACH procedures LS.  For the LSB of SFN (1641/1718/1946), the necessity of reply will depend on the decision made in NR-U WI because 1946 proposed additional restriction and requires confirmation from RAN2.  Not sure whether support wideband PRACH for 2 step RACH will be discuss in this section? Both 2310 and 2373 (in section 2.3) covered this topic but with different views. |
| Ericsson | * Agree with the chairman assessment in general. but the LS can be treated within the email threads for the sub-AIs; it does not necessarily need a separate email approval   + On part(a) of the LS regarding CAPC selection, the RAN1 agreement should be captured but **in 37.213 and not 38.213** (Ericsson has provided TP in Channel access contribution under NR-U AI.). This can be treated in one of the allocated email threads for AI 7.2.2.2.1.   + On part (b) of the LS regarding capturing the relationship between PDSCH and a the LSBs of the SFN signalled in DCI, this can be treated under NR-U AI 7.2.2.2.2 within one of the allocated email threads for that AI. (Ericsson has provided a TP in our contribution for this AI) |
| Apple | Agree with the initial assessment. |
| CATT | These 4 contributions are related to 2s RACH and we suggest these 4 contributions to be handled under 2s RACH AI. Acually R1-2001641, R1-2001718 and R1-2001946 are already included in 2s RACH FL summary (R1-2001713). |
| LG | For the LSB of SFN, as Huawei explained, we need to discuss whether additional requirements/restrictions should be introduced in RAN1 perspective, which may or may not lead to the necessity of response to RAN2. We are ok to discuss this topic in either a separate email thread or email thread under NR-U agenda. |
| Intel | Agree with chairman’s initial assessment. Please note that draft TP is in R1-2001988. |
| Nokia | Agree with the initial assesment |

#### R1-2001507 LS on DCP RAN2, Huawei

Related contributions:

* [R1-2001580](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001580.zip) Draft reply LS on DCP ZTE
* [R1-2001642](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001642.zip) Discussion on MAC-PHY interactions for DCP and CSI reporting vivo
* [R1-2002189](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002189.zip) TP to address RAN2 LS on DCP NEC
* [R1-2002663](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002663.zip) Draft reply LS on the configuration of ps-TransmitPeriodicCSI and ps-TransmitPeriodicL1-RSRP Huawei, HiSilicon

Initial assessment:

* There are specific actions to RAN1
* Noted; reply LS is necessary – option 2 was already last time – quick email approval of the LS by 04/22. The TP corresponding to RAN2 LS is to be discussed and approved under the 2-step AI by 04/23.

***Conclusion:***

* Email approval of the reply LS for R1-2001507 by 4/22 (Huawei, ???)
* Email approvel of the corresponding TP for R1-2001507 by 4/23 under 7.2.7.1

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| **Company** | **Views** |
| Samsung | The two specifc actions to RAN1 were done in last e-meeting before RAN2 sent out the official LS.  Option 2 was already agreed. Relpy LS and agreement in RAN1 is needed. |
| vivo | There are two individual questions asked to RAN1   1. MAC-PHY modelling of DCP 2. CSI/L1-RSRP configuration   The 2nd question is easy to answer as RAN1 already agreed to option 2 in last meeting.  The 1st question was not discussed in RAN1 before so some discussion is needed in the power saving agenda first.  We could treat the two questions separately:   1. For the 1st question, to discuss during this meeting in power saving agenda and draft the LS reply based on the conclusion of the discussion 2. For the 2nd question, to draft a quick LS reply to inform RAN2 about RAN1 agreement so that RAN2 can handle the RRC spec update (if needed) in this meeting. |
| ZTE | We agree that a reply LS is necessary in this e-meeting. There is a typo in the assessment. The TP should be discussed in Power saving AI, instead of 2-step. |
| Huawei, HiSilicon | The LS is for the WI of NE UE power saving, so the related TP should be discussed in a UE power saving AI. |
| Ericsson | Agree with chairman’s assessment although the TP should be discussed in UE power savings AI 7.2.7.1 (and not 2-step AI). We also have a proposed TP on this in R1-2002414. The LS reply could be handled directly under 7.2.7.1 email thread. |
| CATT | The related issues were discussed in AI-7.2.7.1 contributions with text proposals. |
| Intel | Agree with initial assessment. Option 2 was already discussed and in line with agreement, so it seems possible to have quick email approval. |
| Nokia | MAC-PHY modelling of DCP should be handled in AI 7.2.7.1  CSI/L1-RSRP configuration could be handled under AI5  Agree on the principle of MAC-PHY in 7.2.7.1 and then compile the complete LS response under AI5, or have the complete LS managed in AI7.2.7.1 |

#### R1-2001508 LS to RAN1 on preamble-to-PRU mapping for 2-step CFRA RAN2, Ericsson

Related contributions:

* [R1-2001639](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001639.zip) Discussion on preamble-to-PRU mapping for 2-step CFRA vivo
* [R1-2001948](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001948.zip) Draft Reply LS on preamble-to-PRU mapping for 2-step CFRA LG Electronics
* [R1-2002102](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002102.zip) Draft reply LS on preamble-to-PRU mapping for 2-step CFRA Samsung
* [R1-2002311](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002311.zip) Discussion on preamble-to-PRU mapping for 2-step CFRA Apple
* [R1-2002374](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002374.zip) [DRAFT] LS Response on preamble-to-PRU mapping for 2-step CFRA Ericsson
* [R1-2002659](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002659.zip) Draft LS reply to RAN2 on preamble-to-PRU mapping for 2-step CFRA Huawei, HiSilicon

Initial assessment:

* There are specific actions to RAN1
* Noted; reply LS is necessary - email approval by 04/23

***Conclusion:***

* Email approval of the reply LS for R1-2001508 by 4/23 (Ericsson, Zhipeng)

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| **Company** | **Views** |
| Samsung | Agree with the initial assessment. |
| vivo | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. |
| CATT | We suggest these 6 contributions and reply LS draft to be discussed under 2s RACH AI. |
| Intel | Agree with the initial assessment. |
| Nokia | Agree with the initial assessment, could be discussed under 2-step RACH AI |

#### R1-2001509 LS on the applicability of UE capability for NE-DC RAN2, ZTE

Related contributions:

* [R1-2001628](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001628.zip) [DRAFT] Reply LS on the applicability of UE capabilities for NE-DC ZTE
* [R1-2002678](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002678.zip) draft reply LS on the applicability of UE capability for NE-DC Huawei, HiSilicon

Initial assessment:

* There are specific actions to RAN1
* Noted; reply LS is necessary - quick email approval by 04/22

***Conclusion:***

* Email approval of the reply LS for R1-2001509 by 4/22 (ZTE, Xingguang)

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| **Company** | **Views** |
| Samsung | Agree with the initial assessment.  Non-backward compatibility issue should be avoided. |
| ZTE | We support the initial assessment.  RAN2 clearly asked for feedback from RAN1 on the UE capabilities for NE-DC, which may potentially impact the Rel-15 UE capability signalling. It is preferred to reply this LS in this e-meeting to facilitate the RAN2 discussion on this issue. |
| Huawei, HiSilicon | A reply LS is preferred. |
| Apple | We agree that we need a reply LS. |
| Intel | Agree with initial assessment. |
| Nokia | Agree with the initial assessment. |

#### R1-2001510 LS to RAN1 on T-delta in IAB RAN2, Samsung

Related contributions:

* [R1-2002101](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002101.zip) Discussion on T\_delta in IAB Samsung
* [R1-2002187](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002187.zip) Draft reply LS on T\_delta in IAB LG Electronics

//Note: there are also contributions under 7.2.3.4

Initial assessment:

* There are specificic questions to RAN1
* Noted: whether or not to have a reply LS depends on the answers RAN1 will prepare. To discuss for potential LS reply under 7.2.3.4 till 4/23

Conclusion:

* Email discussion w.r.t. LS in R1-2001510 by 4/23, included a potential reply LS, to be handled under 7.2.3.4.

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| **Company** | **Views** |
| Samsung | Agree with the initial assessment – to discuss under 7.2.3.4:  For the first issue, a mapping between an index and the actual value for T\_delta can be captured in RAN1 spec. For the second issue, 12 bits can cover the T\_delta range regardless of SCS in case 32 Tc granularity is assumed in both FR1 and FR2. |
| ZTE, Sanechips | All (7) company contributions under AI 7.2.3.4 focus on the issue opened by this RAN2 LS. It is expected to be handled in AI 7.2.3.4 email discussion, ideally by consuming one email thread budget.  Because  some RAN2 question needs the answer based on the detailed T\_delta mapping solution, such as      -- number of bits for the T\_delta index in MAC-CE  -- As part of T\_delta index definition, whether the indices should reflect RAN4-defined T\_delta range, if yes, how,  it is desirable to work on LS after RAN1 reaches consensus on the T\_delta mapping solution. Given some time is also needed to stablize reply LS itself, it is suggested to make the deadline no earlier than 4/24 (Fri). |
| Huawei, HiSilicon | We agree that whether a reply LS is needed or not depends on the outcome of the discussion under 7.2.3.4. We suggest discussiing the signalling details of T\_delta under 7.2.3.4 and then decide wether to send the LS or not. |
| LG | We agree with the initial assessment that it can be discussed under 7.2.3.4. |
| Intel | Agree with the initial assessment. |
| Nokia | Agree with the initial assessment, should be discussed in 7.2.3.4 |

#### R1-2001511 LS to RAN1 on the starting point of MSGB window RAN2, ZTE

Related contribution:

* [R1-2001640](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001640.zip) Discussion on the starting point of MSGB window vivo
* [R1-2001716](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001716.zip) [Draft] Reply LS on the starting point of MsgB window ZTE, Sanechips
* [R1-2001947](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001947.zip) Draft Reply LS on the starting point of MSGB window LG Electronics
* [R1-2002103](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002103.zip) Draft reply LS on the starting point of MSGB window Samsung
* [R1-2002309](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002309.zip) Discussion on the starting point of MsgB window Apple
* [R1-2002375](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002375.zip) [DRAFT] LS Response on the starting point of MSGB window Ericsson
* [R1-2002658](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002658.zip) Draft LS reply to RAN2 on the starting point of MSGB window Huawei, HiSilicon
* [R1-2002260](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002260.zip) Clarification on the starting point of MsgB window Spreadtrum Communications

Initial assessment:

* There are specific actions to RAN1
* Noted; reply LS is necessary - email approval by 04/23

Conclusion:

* Email approval of the reply LS for R1-2001511 by 4/23, included a potential TP (ZTE, Li).

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| --- | --- |
| **Company** | **Views** |
| Samsung | Agree with the initial assessment. |
| vivo | Agree with the initial assessment. |
| ZTE | Agree with the initial assessment. A TP to 38.213 is also expected. |
| CATT | We suggest these 7 contributions and reply LS draft to be discussed under 2s RACH AI. |
| OPPO | We think it should be clarified for the case that PRACH do not have a valide PRU associated with and the MsgB-window would be. We are open for the several options given, It can be either after the PRACH or after the PRUs belong to the association pattern period. |
| Intel | Agree with the initial assessment. |
| Nokia | Agree with the initial assessment. RAN1 would need to fix 38.213 as well. |

#### R1-2001512 Reply LS on signaling of Q for a serving cell in NR-U RAN2, Qualcomm

Related contributions:

* [R1-2001931](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001931.zip) Discussion on signaling of Q for a serving cell in NR-U LG Electronics

Initial assessment:

* Noted: no need for a reply LS – RAN1 to make a decision accordingly. To be managed under NR-U.

Conclusion:

* No subsequent email discusson for reply LS for R1-2001512. Any further action is to be disussed under NR-U.

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| **Company** | **Views** |
| Samsung | In general agree with the initial assessment. One clarification, RAN1 has already made a decision on this topic, according to two possibilities of RAN2’s feedback, so the correct RAN1 action should be updating RAN1 spec to reflect the decision from RAN2. |
| ZTE | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with the initial assessment. |
| Ericsson | Agree with above assessment |
| LG Electronics | Agree with the initial assessment |
| Intel | Agree with chairman’s initial assessment. Please note that draft TP is in R1-2001988. |
| Nokia | Agree with the initial assessment, no reply needed. 38.213 change to be discussed in 7.2.2.2.2 |

#### R1-2001513 Guidelines for UE capability definitions RAN2, Ericsson, Intel

Initial assessment:

* No specific action to RAN1
* Noted; to take into account for UE feature discussion

Conclusion:

* No subsequent email discussion for R1-2001513; aspects to be taken into account for UE feature discussion

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| **Company** | **Views** |
| Samsung | Agree with the initial assessment |
| ZTE | Agree with the initial assessment. |
| Huawei, HiSilicon | Agree with the initial assessment. |
| Intel | Agree with the initial assessment. |
| Nokia | Agree with the initial assessment, although drafing a reply would be fun |

#### R1-2001514 LS on dormant BWP configuration and related operation RAN2, OPPO

Related contributions:

* [R1-2001629](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001629.zip) [DRAFT] Reply LS on dormant BWP configuration and related operation ZTE
* [R1-2001630](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001630.zip) Discussion on dormant BWP configuration and related operation ZTE
* [R1-2001638](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001638.zip) Draft Reply LS on dormant BWP configuration and related operation vivo
* [R1-2001771](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001771.zip) Draft reply LS on dormant BWP configuration and related operation OPPO
* [R1-2001838](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001838.zip) Draft LS reply on dormant BWP configuration and related operation MediaTek Inc.
* [R1-2002051](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002051.zip) Discussion on RAN2 LS on dormant BWP configuration and related operation Futurewei
* [R1-2002055](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002055.zip) Discussion on RAN2 LS on dormant BWP configuration and related operation LG Electronics
* [R1-2002057](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002057.zip) Draft reply LS on dormant BWP configuration and related operation CATT
* [R1-2002298](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002298.zip) [DRAFT] Reply LS on dormant BWP configuration and related operation Nokia, Nokia Shanghai Bell
* [R1-2002515](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002515.zip) Draft response to LS on dormant BWP configuration and related operation Qualcomm Incorporated
* [R1-2002664](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002664.zip) Draft LS response to RAN2 LS on dormancy behavior Huawei, HiSilicon
* [R1-2002680](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002680.zip) Discussion on the reply LS for SCell dormancy Huawei, HiSilicon

Initial assessment:

* There are specific actions to RAN1
* Noted; Reply LS is necessary – targeting 4/24 for email approval

Conclusion:

* Email approval of the reply LS for R1-2001514 by 4/24 (OPPO, Zhisong)

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| * **Company** | **Views** |
| Samsung | Agree with the initial assessment.  Our initial feedbacks on the questions are as below:  **Q1), Q2)** We don’t see any issue.  **Q3)** We don’t see any issue for CSI reporting but identify some issue for SRS triggered by DCI format 2\_3. This issue can be handled by RAN1.  **Q4), Q5)** This is just for flexibility. Network can configure first non-dormant BWP(s) properly according to the purpose.  **Q6)** Basically, implicit configuration for BFD-RS is not possible for dormant DL BWP with current RAN1 sepcification. Therefore it is recommended to use explicit configuration only.  **Q7)** The default BWP cannot be same as dormant BWP |
| vivo | Agree with the initial assessment.  We observed that RAN2 is trying to make further agreement regarding question 6 after the LS was sent, need to check the latest RAN2 status. |
| ZTE | We support the initial assessment.  This LS may have RAN1 and/or RAN2 spec impact. It is preferred to discuss the issues listed in this LS in this meeting to avoid late spec impact. |
| Ericsson | We submitted input related to the LS in A.I 7.2.10.3   * R1-2002420 Remaining issues for reduced latency Scell management for NR CA Ericsson   Please include this as part of LS reply discussion. |
| CATT | Agree with the initial assessment.  Our views are listed below:  • There are no issues on TCI state and beam management/recovery configurations for PDSCH in RAN2 questions 1 and 2 respectively  • The dormant BWP for SCell dormancy is for UE not to monitor PDCCH on the indicated SCell for power saving purpose but to keep the SCell activated and updated channel information for link adaptation. The aperiodic CSI reporting and SRS transmission on the dormant BWP are key for gNB to be able to schedule UE on the SCell after it is transitioned from dormant SCell to non-dormant SCell. A-CSI reporting and SRS transmission should be supported for DL dormant BWP.  • Dormant BWPs are independently configured outside and within Active Time. No significant benefit of UE power saving had been shown when dormant BWPs are configured differently outside and within Active Time.  • Explicit configuration of BFD-RS could be used for the channel measurement and beam management measurement for BFR. The implicit configuration is a special case.  • The default BWP can not be the dormant BWP. |
| OPPO | At least question 6&7 would need reply LS to RAN2.  RAN1 would assume there is not PDCCH monitoring in the dormant BWP. Thus the implicity PDCCH BFR RS should not be configured. At least explicit configuration of BFR RS can be supported.  RAN1 does not assume the default BWP will be configured as dormant BWP. The introduction of default BWP is for some minimal data transmission. For dormant BWP, it cannot provide data transmission. Setting dormant BWP as default BWP will results in more processing impact. E.g. UE may enter into dormancy by timer event it will have data soon. We do not support it. |
| LG | RAN1 need to discuss all the questions from RAN2 and try to make a response LS to RAN2. |
| Intel | Agree with the initial assessment. |
| Nokia | Agree with the initial assesment |

#### R1-2001519 Reply LS on CSI-RS capabilities (FG 2-33/36/40/41/43) RAN2, NTT DOCOMO

Related contributions:

* [R1-2001590](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001590.zip) Draft reply LS on UE capabilities of CSI-RS ZTE
* [R1-2001901](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001901.zip) Draft reply LS on CSI-RS capabilities (FG 2-33/36/40/41/43) vivo
* [R1-2001980](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001980.zip) Draft reply LS on CSI-RS capabilities Intel Corporation
* [R1-2002100](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002100.zip) Draft reply to RAN2 LS on CSI-RS capabilities (FG 2-33/36/40/41/43) Samsung
* [R1-2002427](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002427.zip) [Draft] Reply LS on CSI-RS capabilities (FG 2-33/36/40/41/43) NTT DOCOMO, INC
* [R1-2002514](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002514.zip) Draft response to Reply LS on CSI-RS capabilities Qualcomm Incorporated
* [R1-2002673](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002673.zip) Discussion on Reply LS on CSI-RS capabilities (FG 2-33/36/40/41/43) Huawei, HiSilicon
* [R1-2002681](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002681.zip) [Draft] Reply LS on CSI-RS capabilities (FG 2-33/36/40/41/43) Huawei, HiSilicon

Initial assessment:

* Specific actions to RAN1
* Noted; Reply LS is necessary – targeting 4/24 for email approval

Conclusion:

* Email approval of the reply LS for R1-2001519 by 4/24 (DCM, Yuki)

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| --- | --- |
| **Company** | **Views** |
| NTT DOCOMO | Based on reviewing the tdocs, companies’ inputs are summarized as below. We think Q2 is quite stable, and we can discuss mainly on Q1, Q3.   * Summary of discussion points:   + Q1: whether “active Tx ports/resources across multiple slots” should be reported?     - No (“per slot” reporting is enough): ZTE, vivo, DOCOMO     - Yes: Intel(?), Samsung     - Question from Huawei/HiSilicon (what are definitions of the starting slot and the ending slot of “multiple slots”)   + Q2: whether the current maximum value of simultaneous CSI-RS resources and CSI-RS ports are enough?     - Yes: ZTE, vivo, Intel, Samsung, DOCOMO, Qualcomm, Huawei/HiSilicon   + Q3: whether to report *maxNumberTxPortsPerResource* per BC?     - Yes: ZTE, Intel, Qualcomm, Huawei/HiSilicon     - No: vivo, Samsung, DOCOMO   + More information to solve under reporting issue (although, this is not explicitly asked)     - Opt. 1) Enhancement of FG2-33 to enable reporting multiple combinations of max. number of CSI-RS resources and CSI-RS ports per BC per each CSI codebook type (by DOCOMO)     - Opt.2) A list of supported combinations for each codebook, whereas each combination is a triplet of {maxNumberTxPortsPerResource, maxNumberResources, totalNumberTxPorts}, shall be signaled to gNB with a granularity of per BC (by Qualcomm, Huawei/HiSilicon)   ----------------------------------------------------------------------------------------------------------------------------------------  Following are comments from DOCOMO perspective:   * For Q1, in our understanding, Q1 comes from misunderstanding of issue between RAN1-RAN2, and reporting triplet per multiple slots does not solve the under reporting issue. * For Q3, we are wondering why *maxNumberTxPortsPerResource* should be reported per BC. Since it is the max Tx ports per “a resource”, we think it is enough to report per band. As an another issue, in case *maxNumberTxPortsPerResource* is reported per BC, all bands in the BC, including single band, is limited by the per BC reporting. * For the solution, we think RAN2 does not clearly understand the issue of current per BC reporting of FG2-33 (except reporting per CSI codebook type), it is good to inform the issue of current FG2-33 (i.e. only single combination of FG2-33 per BC cannot avoid the under reporting) |
| Samsung | Agree with the initial assessment.  Answers on the LS is as follows:  Q1: Have the same understanding with the CR mentioned in Q1.  Q2: The existing maximum value is enough for the new capability.  Q3: Have no issue on excluding the field *maxNumberTxPortsPerResource* in the new capability signalling. |
| vivo | Agree with the initial assessment. |
| ZTE | We agree that a reply LS is needed in this emeeting. |
| Huawei | We think that a reply LS is needed, especially for Q3, so that RAN1 provides a clear answer to RAN2. We have provided a discussion paper to explain that, in R1-2002673. |
| Ericsson | Agree that LS reply is needed |
| Apple | Agree that a reply LS is needed in this meeting |
| CATT | Agree with the initial assessment. |
| OPPO | Q1: The understanding of RAN1 and RAN2 are different. RAN1 spec says that these numbers are counted in one slot.  Q2: The maximum values are sufficient  Q3: In RAN1’s understanding, in order to avoid that UE under-reprots these capabilities, maxNumberTxPortsPerResource should also be per BC. Since the complexity of CSI computation does not change linearly, if only the other two numbers are per BC, it is not enough to describe the UE complexity in one BC |
| LG | Agree with the initial assessment.  Our views on the questions on this LS:  Q2: Yes current maximum value is enough.  Q3: Not clear to report maxNumberTxPortsPerResource per BC. |
| Intel | Agree with the initial assessment. |
| Nokia | Agree with the initial assessment. Suggest clarifying the specific RAN2 CR referred to in Q1 so that RAN1 can give a consistent answer, and then focus on the technical discussion on the relevance of the cases not covered by the proposed RAN2 solution for Q3. |

#### R1-2001522 LS on Tx switching between two uplink carriers RAN4, Apple

Related contributions:

* [R1-2001627](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001627.zip) [DRAFT] Reply LS on Tx switching between two uplink carriers ZTE
* [R1-2002308](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002308.zip) [Draft] Reply LS on UE Tx switching period delay and DL interruption Apple
* [R1-2002394](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002394.zip) Discussion on RAN1 specification impact of DL interruption CATT
* [R1-2002516](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002516.zip) Dicussion on 1Tx-2Tx switching impact in RAN1 Qualcomm Incorporated
* [R1-2002615](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002615.zip) On UE Tx switching period delay and DL interruption Nokia, Nokia Shanghai Bell

Initial assessment:

* Specific actions to RAN1
* Noted; Reply LS is necessary – targeting 4/22 for email approval

Conclusion:

* Email approval of the reply LS for R1-2001522 by 4/22 under AI 5.1 (CT/Apple, Jianchi/Chunhai)

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| --- | --- |
| **Company** | **Views** |
| Samsung | We suggest to discuss this LS under AI 5.1 – our Tdoc R1-2002104 is available there:  There is no RAN1 spec impact on DL interruption since the network scheduling in any scenario can avoid the DL interruption.  In addition,**t**he UE without DL interruption during the switching may have no significant loss of the downlink resource even if there is no capability for DL interruption. |
| China Telecom | We think it’s more appropriate to discuss this issue under AI 5.1, since there may be some relations with other issues discussed under AI 5.1. |
| Vivo | Agree with Samsung and CTC that this LS can be treated in AI 5.1 |
| ZTE | We agree that reply LS is necessary. RAN4 is waiting for RAN1’s reply on the spec impact of DL interruption. It is preferred to reply the LS in this meeting to facilitate RAN4 discussion. We also agree with the above comments that this LS should be treated under AI 5.1. |
| Huawei, HiSilicon | RAN4 is waiting for a response from RAN1. Reply LS is needed and the early approval date is good to facilitate the concurrent RAN4 discussion on the DL interruption. Since it is new task triggered by RAN4 LS and not covered by existing thread budgets for AI 5.1, we feel that additional thread budget for this reply LS is needed, regardless of being discussed under AI 5 or AI 5.1. |
| Apple | We agree with CTC, the LS feedback can be disused un AI 5.1. and it’s better to give the response in this meeting to facilitate the progress of this WI. Our view is showing in R1-2002308. |
| CATT | Agree with the initial assessment. Replied LS can be discussed under AI 5.1. |
| Intel | Agree with the initial assessment. |
| Nokia | Agree with the initial assessment. Should be discussed under AI 5.1 |

#### R1-2001966 LS/o on synchronization of Y.DNI-fr “Framework and Requirements of Decentralized Trustworthy Network Infrastructure” in Q2/13 ITU-T SG13, China Telecom, Huawei

Initial assessment:

* No specific action to RAN1
* Noted, no subsequent email discussion/approval

Conclusion:

* R1-2001966 is noted. No subsequent email discussion/approval.

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| **Company** | **Views** |
| Nokia | Agree with the initial assesment |

## Incoming LSs “CC: RAN1”

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

[R1-2001503](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001503.zip) LS on power control for NR-DC RAN2, vivo

[R1-2001504](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001504.zip) LS to RAN4 on measurement range and granularity RAN2, Intel

[R1-2001515](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001515.zip) Reply LS on updates for TS 36.300 and TS 38.300 RAN3, Ericsson

[R1-2001516](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001516.zip) Reply LS on UAV positioning SA1, InterDigital

[R1-2001520](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001520.zip) LS on gNB measurements report mapping for NR Positioning RAN4, Ericsson

[R1-2001521](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001521.zip) LS on UL LBT failure recovery for the target cell RAN4, Ericsson

[R1-2001523](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001523.zip) Reply LS on CLI measurement capability RAN4, Huawei

## Others

**//Related to LS R1-2000165, Secondary DRX**

Original LS:

* R1-2000165 LS on secondary DRX group RAN2, Ericsson

Related contributions:

* [R1-2001581](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001581.zip) Discussion on secondary DRX group ZTE
* [R1-2001582](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001582.zip) Draft reply LS on secondary DRX group ZTE
* [R1-2001693](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001693.zip) Discussion on 2nd DRX group vivo
* [R1-2001845](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001845.zip) Discussion on impact of secondary DRX group MediaTek Inc.
* [R1-2002056](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002056.zip) Discussion on the RAN1 impacts on Secondary DRX group CATT
* [R1-2002492](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002492.zip) Draft LS response on secondary DRX group Ericsson
* [R1-2002493](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002493.zip) On secondary DRX group Ericsson
* [R1-2002578](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002578.zip) RAN1 impact analysis due to the introduction of secondary DRX cycle Huawei, HiSilicon
* [R1-2002662](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002662.zip) Draft reply LS on secondary DRX cycle Huawei, HiSilicon

Initial assessment:

* Email discussion/approval by 04/24?

Conclusion:

* Email discussion/approval for a potential reply LS to R1-2000165 by 4/24 (Ericsson, Claes)

|  |  |
| --- | --- |
| **Company** | **Views** |
| Vivo | Agree with the initial assessment. |
| ZTE | More clarification and discussion on UE behavior are needed in RAN1 when the secondary DRX group is introduced. More details can be found in our contribution R1-2001581. We are okay to discuss it next RAN1 meeting if the time/email thread budget for AI.5 is limited. |
| Huawei, HiSilicon | The incoming LS is triggered by the discussion in RAN2 TEI. The discussion related with the Rel-16 WI should be prioritized and the LS triggered by TEI from other WGs should be deprioritized/postponed. |
| Ericsson | Reply LS is necessary. |
| Apple | We agree that an email discussion is needed |
| CATT | • The feature interaction between UE power saving with DRX adaptation and secondary DRX and between SCell dormancy and secondary DRX need to be analyzed in detail with justification of the additional power saving gain before the support of both features in the same time.  • We don’t support the configuration of secondary DRX and UE power saving with DRX adaptation without any power saving gain being shown. |
| Intel | Agree to have email discussion |
| Nokia | We are OK to discuss if the meeting has sufficient bandwidth to do so. However, we are having difficulty discussing RAN1 TEI16 proposals that have been under discussion for several meetings, and should consider as higher priority when assigning email discussion threads before assigning an email thread (and essentially allocating time) to a TEI16 item send out way by another WG. |

**//Related to LS R1-2001236, 2-Step**

Original LS:

* [R1-2001236](file:///C:\Users\wanshic\AppData\Local\Temp\Docs\R1-2001236.zip) LS to RAN1 on Support of 2-step CFRA RAN2, ZTE

Related contributions:

* [R1-2001717](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001717.zip) [Draft] Reply LS on the support of 2-step CFRA ZTE, Sanechips
* [R1-2002376](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002376.zip) [DRAFT] LS Response on Support of CSI-RS in 2-step CFRA Ericsson
* [R1-2002660](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002660.zip) Draft LS reply to RAN2 on support of 2-step CFRA Huawei, HiSilicon

Initial assessment:

* Quick email discussion/approval till 4/22?

Conclusion:

* Email approval of the reply LS for R1-2001236 by 4/23 (ZTE, Li)

|  |  |
| --- | --- |
| **Company** | **Views** |
| Samsung | Agree with the initial assessment |
| ZTE | Agree with the initial assessment. This reply LS might have some impact on the ASN.1 review for RAN2. It would be good to have an early deadline for the reply LS. A TP for 38.213 is also expected. |
| Apple | Agree with the intial asseseement. |
| Intel | Agree to have email discussion |
| Nokia | OK to discuss, but the discussion on whether or not to support CSI-RS based CFRA would need to be had in RAN1 before an answer LS can be drafted. So a quick discussion/approval maybe too much to hope for. |

**//Related to LS R1-2001237 (2-Step)**

**Original LS:**

* [R1-2001237](file:///C:\Users\wanshic\AppData\Local\Temp\Docs\R1-2001237.zip) LS to RAN1 on NR-U PRACH root sequence for 2-step RA RAN2, Ericsson

Related contributions:

* [R1-2002373](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002373.zip) [DRAFT] LS Response on NR-U PRACH root sequence for 2-step RA Ericsson

Initial assessment:

* Quick email discussion/approval till 4/22?

Conclusion:

* Email approval of the reply LS for R1-2001237 by 4/23 under 7.2.2.2.2 (Ericsson, Zhipeng)

|  |  |
| --- | --- |
| **Company** | **Views** |
| Samsung | Agree with the initial assessment |
| ZTE | Agree with the initial assessment. This reply LS might have some impact on the ASN.1 review for RAN2. It would be good to have an early deadline for the reply LS. |
| Huawei, HiSilicon | It can be discussed together with 2310 in section 2.1.2.2. The reply will be based on discussion in AI 7.2.2.2.2. |
| Apple | Agree with the intial asseseement. |
| Intel | Agree to have email discussion |
| Nokia | Should be discussed in AI 7.2.2.2.2. A quick discussion/approval maybe difficult to achieve, but no harm in trying. Nokia is addressing the issue in R1-2002278 under the mentioned AI. |

//Related to R1-1909950 (received interference power measurement)

Original LS

* [R1-1909950](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_98b\R1-1909950.zip) LS on the feasibility of Received Interference Power measurement RAN2, Huawei

Related contributions:

* [R1-2002670](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002670.zip) Discussion on the feasibility of received interference power measurement in NR Huawei, HiSilicon
* [R1-2002671](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002671.zip) Draft Reply LS on the feasibility of received interference power measurement Huawei, HiSilicon

Initial assessment:

* Email discussion/approval till 4/23?

Conclusion:

* Email discussion on aspects (including feasibility) related to received interference power measurement, including a potential reply LS, in response to LS in R1-1909950 by 4/23 (Huawei, ???)

|  |  |
| --- | --- |
| **Company** | **Views** |
| Ericsson | As stated earlier, discussion is needed on what the measurement would be, not just the feasibility. |
| Nokia | Agree with Ericsson, need to discuss what is appropriate to do before an LS response makes sense. |

**//Related to V2X**

[R1-2002677](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002677.zip) [Draft] Reply LS on UL-SL prioritization Huawei

Initial assessment:

* RAN1 already replied in R1-1911720?
* No immediate need for a LS to RAN2?

Conclusion:

* R1-2002677 is noted. No subsequent email discussion.

|  |  |
| --- | --- |
| **Company** | **Views** |
| Samsung | RAN1 has to discuss this SL/UL collision scenario and provide some prioritization rule. Email discussion can be made here or in NR V2X mode1 discussion. |
| ZTE | Agree with the initial assessment. RAN1 has already replied the related questions in R1-1911720. No LS to RAN2 is needed. |
| Huawei, HiSilicon | There may be a need during the meeting for a further LS to RAN2, depending on RAN1 agreements, primarily to ensure a clean work and specification split between RAN1 and RAN2. |
| Ericsson | Reply is not necessary.  The LS sent by RAN2 doees not include any action for RAN1 nor indicates that a reply is expected.  The LS includes aspects that have not been agreed by RAN1. Discussion on the different issues can be included in the corresponding AIs, if considered necessary in RAN1. |
| OPPO | As according to Chairman’s initial assessment, in R1-1911720 RAN1 has addressed all direct questions asked by RAN2’s LS (R1-1909944 / R2-1911679). However, in RAN2’s LS it also mentioned “…*rely on RAN1 for the other scenario of “UL TX and SL TX using separated TX chains but shared power budget”, e.g., whether UL/SL prioritization is also needed and whether power sharing mechanism is needed.*” Towards this, RAN1 made an initial working assumptions in RAN1#98bis (Chongqing meeting) with an understanding that we will further work on the remaining issues (FFS points).  According to FL summary for the SL PHY procedure agenda already provided from LGE, remaining details relateing to SL/UL prioritization under RAN1 are captured. To our understanding, proposals from R1-202677 can be discussed there.  Regarding whether or not a further reply LS to RAN2 is necessary on this topic, according to RAN2’s latest LS in R1-2000161, they have assumed “*how to handle all other physical channels in UL/SL prioritization is up to RAN1*” and only asked us “*to take the above information into account in our future work*”. As such, if during this discussion in RAN1 we reach an agreement that would impact RAN2’s work, then we should send an LS back. Otherwise, to our understanding, they don’t expect/need a reply at the moment. |
| LG Electronics | According to RAN2 LS (R1-2000161), RAN2 assumes that how to handle all other remaining physical channels in UL/SL prioritization is up to RAN1. We think that the draft reply LS (R1-2002677) is intended to address this issue that is not directly related to R1-1911720.  From our perspective, it would be necessary to send the reply LS to RAN2 as soon as possible so that RAN2 can complete the relevant specification work quickly.  We think that in case when the issue of “details of UL/SL prioritization” is selected as a critical issue of AI 7.2.4.5 (i.e., Physical layer procedures for sidelink) to be discussed in this meeting, it could be possible to make/finalize the reply LS based on the outcome of email discussion under AI 7.2.4.5. In that email thread, the draft LS can be also prepared (i.e., not necessary to have a separate email discussion thread under AI 5). |
| Nokia | Agree that there is no immediate need for an LS. If a need arises when discussing the related topic, then an LS can be triggered. |

# Conclusion

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

* Email approval of the reply LS for R1-2001517 for both eMTC and NB-IoT by 4/23 under 6.2.2.2 (Ericsson, Johan)
* Email approval of the reply LS for R1-2001518 for both eMTC and NB-IoT by 4/23 under 6.2.2.4 (Qualcomm, Alberto)
* Email approval of the reply LS for R1-2001505 by 4/23 (Ericsson, Mattias)
* Email approval of the corresponding TP in light of R1-2001506 by 4/23 under NR-U AI
* Email approval of the reply LS for R1-2001507 by 4/22 (Huawei, ???)
* Email approvel of the corresponding TP for R1-2001507 by 4/23 under 7.2.7.1
* Email approval of the reply LS for R1-2001508 by 4/23 (Ericsson, Zhipeng)
* Email approval of the reply LS for R1-2001509 by 4/22 (ZTE, Xingguang)
* Email discussion w.r.t. LS in R1-2001510 by 4/23, included a potential reply LS, to be handled under 7.2.3.4.
* Email approval of the reply LS for R1-2001511 by 4/23, included a potential TP (ZTE, Li).
* Email approval of the reply LS for R1-2001514 by 4/24 (OPPO, Zhisong)
* Email approval of the reply LS for R1-2001519 by 4/24 (DCM, Yuki)
* Email approval of the reply LS for R1-2001522 by 4/22 under AI 5.1 (CT/Apple, Jianchi/Chunhai)
* Email discussion/approval for a potential reply LS to R1-2000165 by 4/24 (Ericsson, Claes)
* Email approval of the reply LS for R1-2001236 by 4/23 (ZTE, Li)
* Email approval of the reply LS for R1-2001237 by 4/23 under 7.2.2.2.2 (Ericsson, Zhipeng)
* Email discussion on aspects (including feasibility) related to received interference power measurement, including a potential reply LS, in response to LS in R1-1909950 by 4/23 (Huawei, ???)

# References

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[R1-2001504](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2001504.zip) LS to RAN4 on measurement range and granularity RAN2, Intel

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[R1-2002100](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002100.zip) Draft reply to RAN2 LS on CSI-RS capabilities (FG 2-33/36/40/41/43) Samsung

[R1-2002101](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002101.zip) Discussion on T\_delta in IAB Samsung

[R1-2002102](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002102.zip) Draft reply LS on preamble-to-PRU mapping for 2-step CFRA Samsung

[R1-2002103](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002103.zip) Draft reply LS on the starting point of MSGB window Samsung

[R1-2002187](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002187.zip) Draft reply LS on T\_delta in IAB LG Electronics

[R1-2002285](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002285.zip) Draft LS reply on eMIMO RRC parameters Ericsson

[R1-2002289](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002289.zip) Draft Reply LS to RAN2 on multi-TRP Nokia, Nokia Shanghai Bell

[R1-2002298](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002298.zip) [DRAFT] Reply LS on dormant BWP configuration and related operation Nokia, Nokia Shanghai Bell

[R1-2002308](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002308.zip) [Draft] Reply LS on UE Tx switching period delay and DL interruption Apple

[R1-2002309](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002309.zip) Discussion on the starting point of MsgB window Apple

[R1-2002310](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002310.zip) Discussion on NR-U PRACH root sequence and random access procedure for 2-step RACH Apple

[R1-2002311](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002311.zip) Discussion on preamble-to-PRU mapping for 2-step CFRA Apple

[R1-2002373](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002373.zip) [DRAFT] LS Response on NR-U PRACH root sequence for 2-step RA Ericsson

[R1-2002374](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002374.zip) [DRAFT] LS Response on preamble-to-PRU mapping for 2-step CFRA Ericsson

[R1-2002375](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002375.zip) [DRAFT] LS Response on the starting point of MSGB window Ericsson

[R1-2002376](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002376.zip) [DRAFT] LS Response on Support of CSI-RS in 2-step CFRA Ericsson

[R1-2002394](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002394.zip) Discussion on RAN1 specification impact of DL interruption CATT

[R1-2002427](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002427.zip) [Draft] Reply LS on CSI-RS capabilities (FG 2-33/36/40/41/43) NTT DOCOMO, INC

[R1-2002492](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002492.zip) Draft LS response on secondary DRX group Ericsson

[R1-2002493](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002493.zip) On secondary DRX group Ericsson

[R1-2002501](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002501.zip) On the LS on open PUR issues for NB-IoT/eMTC Ericsson

[R1-2002502](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002502.zip) On the LS on NR coexistence for NB-IoT/eMTC Ericsson

[R1-2002514](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002514.zip) Draft response to Reply LS on CSI-RS capabilities Qualcomm Incorporated

[R1-2002515](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002515.zip) Draft response to LS on dormant BWP configuration and related operation Qualcomm Incorporated

[R1-2002516](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002516.zip) Dicussion on 1Tx-2Tx switching impact in RAN1 Qualcomm Incorporated

[R1-2002578](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002578.zip) RAN1 impact analysis due to the introduction of secondary DRX cycle Huawei, HiSilicon

[R1-2002602](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002602.zip) Draft reply LS on NR coexistence Huawei, HiSilicon

[R1-2002603](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002603.zip) Draft reply LS on open PUR issues for NB-IoT/eMTC Huawei, HiSilicon

[R1-2002615](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002615.zip) On UE Tx switching period delay and DL interruption Nokia, Nokia Shanghai Bell

R1-2002657 On resouce reservation in NB-IoT and eMTC Futurewei

Withdrawn

[R1-2002658](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002658.zip) Draft LS reply to RAN2 on the starting point of MSGB window Huawei, HiSilicon

[R1-2002659](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002659.zip) Draft LS reply to RAN2 on preamble-to-PRU mapping for 2-step CFRA Huawei, HiSilicon

[R1-2002660](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002660.zip) Draft LS reply to RAN2 on support of 2-step CFRA Huawei, HiSilicon

[R1-2002662](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002662.zip) Draft reply LS on secondary DRX cycle Huawei, HiSilicon

[R1-2002663](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002663.zip) Draft reply LS on the configuration of ps-TransmitPeriodicCSI and ps-TransmitPeriodicL1-RSRP Huawei, HiSilicon

[R1-2002664](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002664.zip) Draft LS response to RAN2 LS on dormancy behavior Huawei, HiSilicon

[R1-2002670](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002670.zip) Discussion on the feasibility of received interference power measurement in NR Huawei, HiSilicon

[R1-2002671](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002671.zip) Draft Reply LS on the feasibility of received interference power measurement Huawei, HiSilicon

[R1-2002672](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002672.zip) [Draft] Reply LS on eMIMO RRC parameters Huawei, HiSilicon

[R1-2002673](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002673.zip) Discussion on Reply LS on CSI-RS capabilities (FG 2-33/36/40/41/43) Huawei, HiSilicon

[R1-2002677](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002677.zip) [Draft] Reply LS on UL-SL prioritization Huawei

[R1-2002678](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002678.zip) draft reply LS on the applicability of UE capability for NE-DC Huawei, HiSilicon

[R1-2002680](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002680.zip) Discussion on the reply LS for SCell dormancy Huawei, HiSilicon

[R1-2002681](file:///C:\Users\wanshic\OneDrive%20-%20Qualcomm\Documents\Standards\3GPP%20Standards\Meeting%20Documents\TSGR1_100b\Docs\R1-2002681.zip) [Draft] Reply LS on CSI-RS capabilities (FG 2-33/36/40/41/43) Huawei, HiSilicon