**3GPP TSG-RAN WG4 Meeting # 102-e R4-2207421**

**Electronic Meeting, Feb 21st – Mar 3rd, 2022**

**Agenda item:** 4.1.8.3

**Source:** Moderator (ZTE)

**Title:** Email discussion summary for [102-e][316] Demod\_Maintenance\_BS

**Document for:** Information

# Introduction

*Briefly introduce background, the scope of this email discussion (e.g. list of treated agenda items) and provide some guidelines for email discussion if necessary.*

*This email thread handles maintenance of BS demodulation requirements.*

*List of candidate target of email discussion for 1st round and 2nd round*

* 1st round:
  + Agree on the proposed CRs
* 2nd round:

*Below is the overview of all contributions to be discussed in this thread.*

|  |  |  |  |
| --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **Moderator’s remarks** |
| [**R4-2205734**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_102-e/Docs/R4-2205734.zip)  R4-2205735 (Rel-16 Mirror)  R4-2205736 (Rel-17 Mirror) | Draft CR on correction to multi-slot PUCCH performance requirements (TS38.141-1, Rel-15) | Huawei,HiSilicon | The typo 0.01% 🡪 1% instead of 0.01 just to align the spec texts? |
| [**R4-2205737**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_102-e/Docs/R4-2205737.zip)  R4-2205738 (Rel-16 Mirror)  R4-2205739 (Rel-17 Mirror) | Draft CR on correction to manufactor declaration reference for PRACH formats (TS38.141-2, Rel-15) | Huawei,HiSilicon | An obvious typo: BS type 1-O 🡪 type 2-O |
| [**R4-2205787**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_102-e/Docs/R4-2205787.zip) | CR: Updates to interlace index for interlaced PF0 and PF1 requirements in TS 38.104 (Rel-16) | Huawei,HiSilicon | RBs 0,10,20,…,100 🡪 keep 90?  RBs 0,5,10,…,50 🡪 keep 45? |

# Topic #1: CRs

*Main technical topic overview. The structure can be done based on sub-agenda basis.*

*The CRs are discussed in this topic.*

### CRs/TPs comments collection

*Major close to finalize WIs and Rel-15 maintenance, comments collections can be arranged for TPs and CRs. For Rel-16 on-going WIs, suggest to focus on open issues discussion on 1st round.*

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| [**R4-2205734**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_102-e/Docs/R4-2205734.zip)  R4-2205735 (Rel-16 Mirror)  R4-2205736 (Rel-17 Mirror) | Samsung: Thanks for Huawei carefully checking, we are ok with this updated, To align with “The performance is measured by the required SNR at probability of the NACK to ACK detection equal to 0.1 % or less”, it is better to use 1% instead of 0.01 |
| Huawei: We are fine to use the “1%” wording instead of “0.01”. |
| Ericsson: This change is editorial and not critical to understanding the requirement. |
| Nokia: The change fixes a typo that constitutes a technical error. Arguably this small and somewhat evident typo could also be fixed via editorial services of MCC. Though, in this instance we are slightly in favor of fixing here by endorsing the draftCRs. |
| Intel: Support to use “1%” wording. |
| Moderator: The typo 0.01% 🡪 1% instead of 0.01 just to align the spec texts? |
| [**R4-2205737**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_102-e/Docs/R4-2205737.zip)  R4-2205738 (Rel-16 Mirror)  R4-2205739 (Rel-17 Mirror) | Samsung: Thanks for Huawei carefully checking, we are ok with this updated. |
| Ericsson: This change is editorial and not critical to understanding the requirement. Reader can know the requirement is for 2-O by SCS list. |
| Nokia: The change fixes a typo that constitutes a non-critical error. Arguably this small and very evident typo could also be fixed via editorial services of MCC. We would follow moderator decision concerning treatment. |
| Intel: Support to fix this typo to improve specification quality. |
| **R4-2205787**  CR: Updates to interlace index for interlaced PF0 and PF1 requirements in TS 38.104 (Rel-16) | Samsung: Thanks for Huawei carefully checking, we are ok with this updated  100 and 50 are aligned with previous WF for format 0 and format 1 |
| Ericsson: OK for the change to align with the PUSCH and other specifications. |
| Nokia: Agree to fix this error. Thanks for the careful review.  @Moderator: The link on the left leads to the wrong tdoc (737), so we removed it via change marks. |
| Moderator: RBs 0,10,20,…,100 🡪 keep 90?  RBs 0,5,10,…,50 🡪 keep 45? |
| Huawei: @ Moderator  The proposed RB allocation is aligned with agreed WF. Do you mean RBs 0,10, 20,…,90,100? and 0,5, 10,…,45,50?. If do, we prefer to keep current state because it is aligned with interlaced RB allocation in tables of PF2 and PF3.  Moderator: Yes, 90/45 is actually included in the lists. But it doesn’t matter. |

## Summary for 1st round

### CRs/TPs

*Moderator tries to summarize discussion status for 1st round and provided recommendation on CRs/TPs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation** |
| XXX | *Based on 1st round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |
| **[R4-2205734](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_102-e/Docs/R4-2205734.zip)**  R4-2205735 (Rel-16 Mirror)  R4-2205736 (Rel-17 Mirror) | *Revised.*  *0.01 -> 1%* |
| **[R4-2205737](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_102-e/Docs/R4-2205737.zip)**  R4-2205738 (Rel-16 Mirror)  R4-2205739 (Rel-17 Mirror) | *Agreeable* |
| **R4-2205787**  CR: Updates to interlace index for interlaced PF0 and PF1 requirements in TS 38.104 (Rel-16) | *Agreeable* |

## Discussion on 2nd round (if applicable)

*Moderator can provide summary of 2nd round here. Note that recommended decisions on tdocs should be provided in the section titled ”Recommendations for Tdocs”.*

# Recommendations for Tdocs

## 1st round

**New tdocs**

|  |  |  |
| --- | --- | --- |
| **Title** | **Source** | **Comments** |
| WF on … | YYY |  |
| LS on … | ZZZ | To: RAN\_X; Cc: RAN\_Y |
|  |  |  |

**Existing tdocs**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
| [**R4-2205734**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_102-e/Docs/R4-2205734.zip) | Draft CR on correction to multi-slot PUCCH performance requirements (TS38.141-1, Rel-15) | Huawei,HiSilicon | Revised | 0.01 -> 1% |
| R4-2205735 | Draft CR on correction to multi-slot PUCCH performance requirements (TS38.141-1, Rel-16) | Huawei,HiSilicon | Return-to | Mirror to the revision of R4-2205734 |
| R4-2205736 | Draft CR on correction to multi-slot PUCCH performance requirements (TS38.141-1, Rel-17) | Huawei,HiSilicon | Return-to | Mirror to the revision of R4-2205734 |
| [**R4-2205737**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_102-e/Docs/R4-2205737.zip) | Draft CR on correction to manufactor declaration reference for PRACH formats (TS38.141-2, Rel-15) | Huawei,HiSilicon | Agreeable |  |
| R4-2205738 | Draft CR on correction to manufactor declaration reference for PRACH formats (TS38.141-2, Rel-16) | Huawei,HiSilicon | Agreeable | *Proponent, please upload the Mirror CR* |
| R4-2205739 | Draft CR on correction to manufactor declaration reference for PRACH formats (TS38.141-2, Rel-17) | Huawei,HiSilicon | Agreeable | *Proponent, please upload the Mirror CR* |
| [**R4-2205787**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_102-e/Docs/R4-2205787.zip) | CR: Updates to interlace index for interlaced PF0 and PF1 requirements in TS 38.104 (Rel-16) | Huawei,HiSilicon | Agreeable |  |

Notes:

1. Please include the summary of recommendations for all tdocs across all sub-topics incl. existing and new tdocs.
2. For the Recommendation column please include one of the following:
   1. CRs/TPs: Agreeable, Revised, Merged, Postponed, Not Pursued
   2. Other documents: Agreeable, Revised, Noted
3. For new LS documents, please include information on To/Cc WGs in the comments column
4. Do not include hyper-links in the documents

## 2nd round

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tdoc number** | **Title** | **Source** | **Recommendation** | **Comments** |
| R4-210xxxx | CR on … | XXX | Agreeable, Revised, Merged, Postponed, Not Pursued |  |
| R4-210xxxx | WF on … | YYY | Agreeable, Revised, Noted |  |
| R4-210xxxx | LS on … | ZZZ | Agreeable, Revised, Noted |  |
| R4-2207454 | CR: Updates to interlace index for interlaced PF0 and PF1 requirements in TS 38.104 (Rel-17) | Huawei, HiSilicon | Agreeable | *Mirror CR to R4-2205787* |
| R4-2207261 | Draft CR on correction to multi-slot PUCCH performance requirements (TS38.141-1, Rel-15) | Huawei, HiSilicon | Agreeable | *Revision of R4-2205734* |
| R4-2205735 | Draft CR on correction to multi-slot PUCCH performance requirements (TS38.141-1, Rel-16) | Huawei,HiSilicon | Agreeable | *Mirror to R4-2207261 for Rel-16* |
| R4-2205736 | Draft CR on correction to multi-slot PUCCH performance requirements (TS38.141-1, Rel-17) | Huawei,HiSilicon | Agreeable | *Mirror to R4-2207261 for Rel-17* |

Notes:

1. Please include the summary of recommendations for all tdocs across all sub-topics.
2. For the Recommendation column please include one of the following:
   1. CRs/TPs: Agreeable, Revised, Merged, Postponed, Not Pursued
   2. Other documents: Agreeable, Revised, Noted
3. Do not include hyper-links in the documents

# Annex

Contact information

|  |  |  |
| --- | --- | --- |
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Note:

1. Please add your contact information in above table once you make comments on this email thread.
2. If multiple delegates from the same company make comments on single email thread, please add you name as suffix after company name when make comments i.e. Company A (XX, XX)