**3GPP TSG-RAN WG4 Meeting #** **97-e R4-20xxxxx**

**Electronic Meeting, 2-13 Nov., 2020**

**Agenda item:** 6.2.2 and 6.2.3

**Source:** Moderator (Huawei)

**Title:** Email discussion summary for [97e][226] NB\_IOTenh3\_RRM

**Document for:** Information

# Introduction

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

* 1st round:

Provide comments on CR/draftCR on the core requirements maintenance.

Discuss the issues related to performance requirements.

Provide comments on CR/draftCR on the test cases.

* 2nd round:

Continue discussion if necessary.

# Topic #1: Core requirements maintenance

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

There are two CR submitted to the core requirements maintenance (R4-2015512, R4-2015513). Companies please provide comments in 1.1.2 directly.

## Companies views’ collection for 1st round

### Open issues

### 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** |
| R4-2015512 | Huawei: The CR is resubmission of the CR R4-2012193 in RAN4#96e meeting which is not implemented due to some changes are not based on the latest spec. The proposed changes are technically accepted by companies in the last meeting. |
| Company B |
|  |
| R4-2015513 | Huawei: The CR is to align the requirement for short DRX when eDRX is configured. Currently the UE is required to perform intra/inter-f measurement every DRX when eDRX is configured for the new introduced short DRX length (i.e. Tmeasure = 4 DRX without eDRX; Tmeasure = 1 DRX with eDRX). As the minimum PTW is 2.56s which allows multiple measurement occasions within the PTW for the short DRX, it is suggest to have the same measurement requirement w/wo eDRX. |
| MTK: Support this CR which provides better power saving opportunities for UE in short DRX cycles. |
| Ericsson: In our understanding, one of the changes in this CR is to align Tmeasure /Tevaluate between with and without eDRX for DRX cycle length of 320/640ms. For example, Tmeasure /Tevaluate in Table 4.6.2.2-2 are aligned with Table 4.6.2.2-1.  We are fine with this change, but there are misalignments of Tevalute  1) between Tables 4.6.2.2-1 (5.12) and Table 4.6.2.2-2 (2.56).  2) between Tables 4.6.2.5-1 (5.12) and Table 4.6.2.5-2 (2.56).  Please check it. |
| Huawei  (Further comments) | To Ericsson’s comments:  Thanks for pointing it out. Here are some clarifications about the misalignments of Teva in some tables. The principle for defining the requirement when eDRX is configured is try to make sure UE complete the measurement and evaluation within the same PTW. It could be observed that for the legacy requirements (DRX = 1.28s / 2.56s), Teva is also different from the table when eDRX is not configured. So as the minimum PTW length is 2.56s, there is no need to force UE to make too frequent measurement and evaluate, thus Tmeasure and Teva are relaxed but it should also be guaranteed that Teva is within one PTW (2.56s) |

## Summary for 1st round

### Open issues

*Moderator tries to summarize discussion status for 1st round, list all the identified open issues and tentative agreements or candidate options and suggestion for 2nd round i.e. WF assignment.*

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|  | **Status summary** |
| **Sub-topic#1** | *Tentative agreements:*  *Candidate options:*  *Recommendations for 2nd round:* |

*Recommendations on WF/LS assignment*

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| --- | --- | --- |
|  | **WF/LS t-doc Title** | **Assigned Company,**  **WF or LS lead** |
| #1 |  |  |

### CRs/TPs

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

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| **CR/TP number** | **CRs/TPs Status update recommendation** |
| R4-2015512 | Agreeable |
| R4-2015513 | Agreeable |

## Discussion on 2nd round (if applicable)

## Summary on 2nd round (if applicable)

*Moderator tries to summarize discussion status for 2nd round and provided recommendation on CRs/TPs/WFs/LSs Status update suggestion*

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| **CR/TP/LS/WF number** | **T-doc Status update recommendation** |
| XXX | *Based on 2nd round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |

# Topic #2: Performance

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

## Companies’ contributions summary

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| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2015817 | Ericsson | **Proposal 1: Reuse the Rel-14 MSG3-based channel quality report test on anchor for Rel-16 MSG3-based channel quality report test on non-anchor.**  **Proposal 2: Configure NPDCCH carrier index (ndpcch-CarrierIndex-r14) for Rel-16 MSG3-based channel quality report test on non-anchor.** |

## Open issues summary

*Before e-Meeting, moderators shall summarize list of open issues, candidate options and possible WF (if applicable) based on companies’ contributions.*

### Sub-topic 2-1

*Sub-topic description:*

*Open issues and candidate options before e-meeting:*

**Issue 2-1: MSG3-based channel quality report test on non-anchor carrier**

* Proposals
  + Option 1: Reuse the Rel-14 MSG3-based channel quality report test on anchor for Rel-16 MSG3-based channel quality report test on non-anchor. (Ericsson, R4-2015817 )
  + Option 2: Configure NPDCCH carrier index (ndpcch-CarrierIndex-r14) for Rel-16 MSG3-based channel quality report test on non-anchor. (Ericsson, R4-2015817 )
* Recommended WF
  + Discuss the above proposals

## Companies views’ collection for 1st round

### Open issues

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| --- | --- |
| **Company** | **Comments** |
| XXX | Sub topic 2-1:  Sub topic 2-2:  ….  Others: |
| Huawei | Issue 2-1: Ok with option 1 and option 2. |
| Ericsson | Issue 2-1: Support both options. |

### 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.*

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| **CR/TP number** | **Comments collection** |
| R4-2015514 | Qualcomm: It should be TS 36.521-3 in the cover sheet. |
| Company B |
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| R4-2015817 | Huawei: We have a little comment about a typo: ndpcch-CarrierIndex-r14 should be npdcch |
| Ericsson: For Huawei’s comments: Thanks for pointing out. We would like to fix in the revision. |
|  |
| R4-2016553 | Huawei: The repetition level of npdcch is not configured. And there should be other specs affected in the coversheet (TS36.521-3). |
| Ericsson: No technical comments, but we think it should be ‘draft CR’ |
| Qualcomm: Thanks for pointing out the error in the cover sheet. For NPDCCH repetition level we can reuse the values in Tables A.9.14.1.2-2 and A.9.14.2.2-2 as initial conditions. After the UE sends DL channel quality report we expect the NPDCCH repetition to be set according to the reported value. |

## Summary for 1st round

### Open issues

*Moderator tries to summarize discussion status for 1st round, list all the identified open issues and tentative agreements or candidate options and suggestion for 2nd round i.e. WF assignment.*

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| --- | --- |
|  | **Status summary** |
| **Sub-topic#1** | **Issue 2-1: MSG3-based channel quality report test on non-anchor carrier**  *Tentative agreements:*  Proposal 1: Reuse the Rel-14 MSG3-based channel quality report test on anchor for Rel-16 MSG3-based channel quality report test on non-anchor.  Proposal 2: Configure NPDCCH carrier index (ndpcch-CarrierIndex-r14) for Rel-16 MSG3-based channel quality report test on non-anchor. |

*Suggestion on WF/LS assignment*

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| --- | --- | --- |
|  | **WF/LS t-doc Title** | **Assigned Company,**  **WF or LS lead** |
| #1 |  |  |

### CRs/TPs

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

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| --- | --- |
| **CR/TP number** | **CRs/TPs Status update recommendation** |
| R4-2015514 | To be revised |
| R4-2015817 | To be revised |
| R4-2016553 | To be revised (The CR type should be “Draft CR”) |

## Discussion on 2nd round (if applicable)

## Summary on 2nd round (if applicable)

*Moderator tries to summarize discussion status for 2nd round and provided recommendation on CRs/TPs/WFs/LSs Status update suggestion*

|  |  |
| --- | --- |
| **CR/TP/LS/WF number** | **T-doc Status update recommendation** |
| XXX | *Based on 2nd round of comments collection, moderator can recommend the next steps such as “agreeable”, “to be revised”* |