**3GPP TSG-RAN WG4 Meeting # 104-e R4-21xxxxx**

**Electronic Meeting, 15– 26 August, 2022**

**Agenda item:** 4.3.3

**Source:** Moderator (Huawei)

**Title:** Email discussion summary for [104-e][302] NR\_Conformance\_Maintenance

**Document for:** Information

# 0 Introduction

The scope of this email discussion is to discuss the contributions submitted at agenda 4.3 on NR BS conformance maintenance.

* Topic #1: Clarification on RMS detection mode
* Topic #2: Additional BS conformance to other standards
* Topic #3: Clarifications of BS type for band n46 and n102
* Topic #4: Correction of the OBUE frequency range definition for FR2
* Topic #5: Corrections for the NB-IoT requirements in NR in-band

# Topic #1: Clarification on RMS detection mode

## Companies’ contributions summary

 (Category A CRs are not listed)

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposal summary** |
| R4-2212503 | Huawei, HiSilicon | Draft CR to 38.141-1: Clarification on RMS detection mode**Reason for change**: RMS detection mode is defined for ACLR while the required measurement duration is not clarified. The corresponding changes for other requirements using RMS detection were agreed in RAN4#102-e meeting |

## Companies views’ collection for 1st round

### 1.2.1 CRs/TPs comments collection

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2212503 |  |
|  |
|  |

## Summary for 1st round

### 1.3.1CRs/TPs

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

*Note: The tdoc decisions shall be provided in Section 3 and this table is optional in case moderators would like to provide additional information.*

|  |  |
| --- | --- |
| **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”* |

## Discussion on 2nd round (if applicable)

# 2 Topic #2: Additional BS conformance to other standards

## 2.1 Companies’ contributions summary

(Category A CRs are not listed)

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposal summary** |
| R4-2212506 | Huawei, HiSilicon | Draft CR to 38.141-1: Additional BS conformance to other standards**Reason for change:** In the final draft of EN 301 908-24, additional BS conformance to other standards was defined. The conformance with the requirements in ETSI EN 301 908-24 can also equally be demonstrated through MSR standards such as ETSI EN 301 908-18 for BS type 1-C, ETSI EN 301 908-23 for BS type 1-H and 1-O. But in current 38.141-1 and 38.141-2 such equal demonstration is missing. |
| R4-2212509 | Huawei, HiSilicon | Draft CR to 38.141-2: Additional BS conformance to other standards**Reason for change:** In the final draft of EN 301 908-24, additional BS conformance to other standards was defined. The conformance with the requirements in ETSI EN 301 908-24 can also equally be demonstrated through MSR standards such as ETSI EN 301 908-18 for BS type 1-C, ETSI EN 301 908-23 for BS type 1-H and 1-O. But in current 38.141-1 and 38.141-2 such equal demonstration is missing. |

## 2.2 Companies views’ collection for 1st round

### 2.2.1 CRs/TPs comments collection

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2212506 | Nokia: NR (single-RAT) BS is not included in the current scope of 37 series. |
|  |
|  |
| R4-2212509 | Nokia: NR (single-RAT) BS is not included in the current scope of 37 series. |
|  |
|  |

## 2.3 Summary for 1st round

### 2.3.1CRs/TPs

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

*Note: The tdoc decisions shall be provided in Section 3 and this table is optional in case moderators would like to provide additional information.*

|  |  |
| --- | --- |
| **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”* |

## 2.4 Discussion on 2nd round (if applicable)

# 3 Topic #3: Clarifications of BS type for band n46 and n102

## 3.1 Companies’ contributions summary

(Category A CRs are not listed)

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposal summary** |
| R4-2213987 | Nokia, Nokia Shanghai Bell | CR to TS 38.141-2 with clarifications of BS type for band n46**Reason for change:** During RAN4#102-e meeting agreed R4-2205198 that included clarifications for band n46. Also during RAN4#103 CRs were agreed with updates to 38.104 and 38.141-1. However there was missing update for TS 38.141-2 for transmitter and receiver part. This CR introduce this missing sentence. Also update is proposed in in Measurement uncertainty section where band n46 was removed.  |
| R4-2213988 | Nokia, Nokia Shanghai Bell | CR to TS 38.141-2 with clarifications of BS type for band n46 and n102**Reason for change**: RAN4#102-e and RAN4#103-e meeting agreed CRs (R4-2205199, R4-2209812, R4-2209813, R4-2209810, R4-2209809) that included clarifications for band n46 and n96 and n102 for TS 38.104 and TS 38.141-1. However there was missing update for TS 38.141-2. This CR introduce missing sentences for transmitter and receiver sections. Also, update is proposed in in Measurement uncertainty section where band n46 and band n102 were removed.  |

## 3.2 Companies views’ collection for 1st round

### 3.2.1 CRs/TPs comments collection

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2213987 |  |
|  |
|  |
| R4-2213988 |  |
|  |
|  |

## 3.3 Summary for 1st round

### 3.3.1CRs/TPs

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

*Note: The tdoc decisions shall be provided in Section 3 and this table is optional in case moderators would like to provide additional information.*

|  |  |
| --- | --- |
| **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”* |

## 3.4 Discussion on 2nd round (if applicable)

# 4 Topic #4: Correction of the OBUE frequency range definition for FR2

## 4.1 Companies’ contributions summary

(Category A CRs are not listed)

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposal summary** |
| R4-2214026 | Huawei, HiSilicon | draft CR to TS 38.141-2: correction of the OBUE frequency range definition for FR2, Rel-15**Reason for change:** During the work on the M.2070 updates for the IMT-2020, it was observed that the OBUE text for the FR2 requirements definition and its applicable frequency range is defined in a confusing and unclear way. This CR is correcting this issue. |
|  |  |  |

## 4.2 Companies views’ collection for 1st round

### 4.2.1 CRs/TPs comments collection

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2214026 |  |
|  |
|  |

## 4.3 Summary for 1st round

### 4.3.1CRs/TPs

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

*Note: The tdoc decisions shall be provided in Section 3 and this table is optional in case moderators would like to provide additional information.*

|  |  |
| --- | --- |
| **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”* |

## 4.4 Discussion on 2nd round (if applicable)

# 5 Topic #5: Corrections for the NB-IoT requirements in NR in-band

## 5.1 Companies’ contributions summary

(Category A CRs are not listed)

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposal summary** |
| R4-2214024 | Huawei, HiSilicon | draft CR to TS 38.141-1: corrections for the NB-IoT requirements in NR in-band, Rel-16**Reason for change:** It was observed that the specification of the BS RF requirements for the NB-IoT operation in NR in-band is not precise enough in the TS 38.141-1 specification. Related corrections and clarifiactrions are introduced in this CR. |
|  |  |  |

## 5.2 Companies views’ collection for 1st round

### 5.2.1 CRs/TPs comments collection

|  |  |
| --- | --- |
| **CR/TP number** | **Comments collection** |
| R4-2214024 | Nokia: NB-IoT in NR guard-band definition was included per operators’ request (ref. R4-1907809 and R4-2000875). Moreover, WI proposal on NB-IoT for AAS was proposed but no agreement was reached in RAN (ref. RP-192828 and RP-193156), hence addition of NB-IoT for BS type 1-H should not be handled as necessary corrections in RAN4. |
|  |
|  |
|  |  |
|  |
|  |

## 5.3 Summary for 1st round

### 5.3.1CRs/TPs

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

*Note: The tdoc decisions shall be provided in Section 3 and this table is optional in case moderators would like to provide additional information.*

|  |  |
| --- | --- |
| **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”* |

## 5.4 Discussion on 2nd round (if applicable)

# 6 Recommendations for Tdocs

## 6.1 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** |
| R4-210xxxx | CR on … | XXX | Agreeable, Revised, Merged, Postponed, Not Pursued |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

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

## 6.2 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 |  |
|  |  |  |  |  |

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

|  |  |  |
| --- | --- | --- |
| **Company** | **Name** | **Email address** |
| Nokia | Man Hung Ng | man\_hung.ng@nokia.com |
|  |  |  |
|  |  |  |

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)