**3GPP TSG-RAN WG4 Meeting # 111 R4-240xxxx**

**Fukuoka, Japan, 20 ‒ 24 May 2024**

**Agenda item:** 7.8.8

**Source:** Moderator (Nokia)

**Title:** Topic summary for [111][303] NR\_FR1\_lessthan\_5MHz\_BW\_BSRF\_Maintenance

**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.*

Summary for contributions submitted under agenda items 7.8.3 and 7.8.4 for NR support for dedicated spectrum less than 5MHz for FR1.

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

* 1st round: Discussion and agreement on open issues listed below.
* 2nd round: Continue discussion and agreement on open issues listed below.

# Topic #1: Core requirements

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

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2407433 | Nokia | Proposal 1: Add the unit ‘kHz’ for the term ‘m\*180’ is missing in the formula in Table 7.4.2.5-2.  Observation 1: The unit for the term ‘m\*180’ is missing in the formula in Table 7.4.2.5-2. |
| R4-2408200 | NEC | Proposal 1: In Note 3 in table 6.6.3.2-2a and 6.6.3.2-3, add 3 MHz as a condition of the BS channel bandwidth at the other edge of the gap for ACLR limit in non-contiguous spectrum or multiple bands, and for CACLR limit.  Observation 1: For ACLR limit in non-contiguous spectrum or multiple bands, and for CACLR limit, condition of 3 MHz channel bandwidth at the other edge of the gap is still missing. |
| R4-2408201 | NEC | Proposal 1: Prated,c is replaced by Prated,x.  Observation 1: Undefined symbol, Prated,c, is used for OBUE requirements. |

## Open issues summary

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

### Sub-topic 1-1

*Sub-topic description:*

*Open issues and candidate options before meeting:*

**Issue 1-1: CR in R4-2407433**

|  |
| --- |
| Proposal 1: Add the unit ‘kHz’ for the term ‘m\*180’ is missing in the formula in Table 7.4.2.5-2.  Observation 1: The unit for the term ‘m\*180’ is missing in the formula in Table 7.4.2.5-2. |

* Proposals
  + Option 1: Agree the CR
  + Option 2: Revise the CR
  + Option 3: Note the CR
* Recommended WF
  + Option 1: Agree the CR (Draft CR already endorsed in R4-2405895)

### Sub-topic 1-2

*Sub-topic description:*

*Open issues and candidate options before meeting:*

**Issue 1-2: CR in R4-2408200**

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| --- |
| Proposal 1: In Note 3 in table 6.6.3.2-2a and 6.6.3.2-3, add 3 MHz as a condition of the BS channel bandwidth at the other edge of the gap for ACLR limit in non-contiguous spectrum or multiple bands, and for CACLR limit.  Observation 1: For ACLR limit in non-contiguous spectrum or multiple bands, and for CACLR limit, condition of 3 MHz channel bandwidth at the other edge of the gap is still missing. |

* Proposals
  + Option 1: Agree the CR
  + Option 2: Revise the CR
  + Option 3: Note the CR
* Recommended WF
  + Option 1: Agree the CR

### Sub-topic 1-3

*Sub-topic description:*

*Open issues and candidate options before meeting:*

**Issue 1-3: CR in R4-2408201**

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| --- |
| Proposal 1: Prated,c is replaced by Prated,x.  Observation 1: Undefined symbol, Prated,c, is used for OBUE requirements. |

* Proposals
  + Option 1: Agree the CR
  + Option 2: Revise the CR
  + Option 3: Note the CR
* Recommended WF
  + Option 2: Revise the CR (Prated,c in 0MHz ≤ Δf < 3 MHz row in Table 6.6.4.2.3-1aa should also be replaced by Prated,x)

# Topic #2: Test requirements

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

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2407434 | Nokia | Proposal 1: Add the unit ‘kHz’ for the term ‘m\*180’ is missing in the formula in Table 7.4.2.5.1-2.  Observation 1: The unit for the term ‘m\*180’ is missing in the formula in Table 7.4.2.5.1-2. |
| R4-2408202 | NEC | Proposal 1: Prated,c is replaced by Prated,x.  Observation 1: Undefined symbol, Prated,c, is used for OBUE requirements. |

## Open issues summary

*Before 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 meeting:*

**Issue 2-1: CR in R4-2407434**

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| --- |
| Proposal 1: Add the unit ‘kHz’ for the term ‘m\*180’ is missing in the formula in Table 7.4.2.5.1-2.  Observation 1: The unit for the term ‘m\*180’ is missing in the formula in Table 7.4.2.5.1-2. |

* Proposals
  + Option 1: Agree the CR
  + Option 2: Revise the CR
  + Option 3: Note the CR
* Recommended WF
  + Option 1: Agree the CR (Draft CR already endorsed in R4-2405896)

### Sub-topic 2-2

*Sub-topic description:*

*Open issues and candidate options before meeting:*

**Issue 2-2: CR in R4-2408202**

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| --- |
| Proposal 1: Prated,c is replaced by Prated,x.  Observation 1: Undefined symbol, Prated,c, is used for OBUE requirements. |

* Proposals
  + Option 1: Agree the CR
  + Option 2: Revise the CR
  + Option 3: Note the CR
* Recommended WF
  + Option 2: Revise the CR (Prated,c in 0MHz ≤ Δf < 3 MHz row in Table 6.6.4.5.4-1a should also be replaced by Prated,x)

# Recommendations for Tdocs

|  |  |  |
| --- | --- | --- |
| **Tdoc number** | **Recommendation** | **Comments** |
| R4-2407433 | Agreed |  |
| R4-2407434 | Agreed |  |
| R4-2408200 | Agreed |  |
| R4-2408201 | Revised |  |
| R4-2408202 | Revised |  |

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