**3GPP T****SG-RAN WG4 Meeting #111 R4-2400**

**Fukuoka, Japan, 20th** – **24th April, 2024**

**Agenda item:** 6.2

**Source:** Moderator (Nokia)

**Title:** Topic summary for [111][109] LTE\_NR\_HPUE\_FWVM

**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.*

# Topic #1: Raporteur TDocs

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

## Contributions summary

|  |  |  |  |
| --- | --- | --- | --- |
| **T-doc number** | **Title** | **Company** | **Proposals / Observations** |
| R4-2408711 | FWA TR 37.829 | Nokia | Email Approval |
| R4-2408712 | Revised WID High-power UE operation for fixed-wireless/vehicle-mounted use cases in LTE bands and NR bands | Nokia | Email Approval |
| R4-2408713 | Big CR High-power UE operation for fixed-wireless/vehicle-mounted use cases in LTE bands and NR bands | Nokia | Email Approval |

# Topic #2: Other bands than n100/n101

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

## Companies’ contributions summary

|  |  |  |  |
| --- | --- | --- | --- |
| **T-doc number** | **Title** | **Company** | **Proposals / Observations** |
| R4-2407417 | Band 106 FWA PC1 Test and Simulation Results | Anterix | Not available |
| [**R4-2407380**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2407380.zip) | FWA PC1 B106 A-MPR | Nokia | **Proposal 1: RAN4 shall consider defining no A-MPR for PC1 B106 to protect bands 5 and 26.** |
| [**R4-2408714**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2408714.zip) | draftCR for 38.101-1 addition of PC1 operation for n40 | Nokia, NBN | draftCR: Addition of PC1 into n40  Looks agreeable. |
| [**R4-2408715**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2408715.zip) | draftCR for 38.101-1 addition of PC1 operation for n25 and n66 | Nokia, Bell Mobility | draftCR: Addition of PC1 into n25 and n66  Looks agreeable. |
| [**R4-2408716**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2408716.zip) | draftCR for 36.101 addition of PC1 operation for B106 | Nokia, Anterix | draftCR: Addition of PC1 into B106  Depends on Issue 2-1 |
| [**R4-2408717**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2408717.zip) | draftCR for 36.101 addition of PC1 operation for B40 and B42 | Nokia, NBN | draftCR: Addition of PC1 into B40 and B42  Looks agreeable. |

## Open issues summary

#### Issue 2-1: B106 A-MPR

|  |  |  |
| --- | --- | --- |
| [**R4-2407380**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2407380.zip) | FWA PC1 B106 A-MPR | Nokia |

* Proposal: No A-MPR for PC1 B106 to protect bands 5 and 26 is needed.
  + Option 1: agree
  + Option 2: do not agree
* Recommended WF
  + Offline discussion is needed.

# Topic #3: n100/n101

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

## Companies’ contributions summary

|  |  |  |  |
| --- | --- | --- | --- |
| **T-doc number** | **Title** | **Company** | **Proposals / Observations** |
| [**R4-2408705**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2408705.zip) | CR to TS 38.101-1: n100-n101 Car radio receiver requirements | Ericsson | CR to 38.101-1: Adds a reference to ECC decision on blocking requirement tables.  Depends on Issue 3-1 |
| [**R4-2409512**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2409512.zip) | Follow-up discussion on the missing PC1 Rx requirements for the FRMCS operation in n100/n101 | Huawei, HiSilicon | **Proposal 1:** In order tofill the gap of missing Rx characteristics of FRMCS PC1 cab-radio, refer to ETSI TS 103 793 technical specification.  **Proposal 2**: Endorse Draft CR to TS 38.101-1 PC1 Rx requirements for FRMCS operation in bands n100/n101 in [6].  **Proposal 3**: Send LS to ETSI TC RT (cc TSG RAN) clarifying RAN4 situation on Rx requirements for HPUE PC1 cab-radio. |
| [**R4-2409513**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2409513.zip) | TP to TR 37.829: Clarification on the Rx requirements for PC1 cab-radio | Huawei, HiSilicon | TP to TR Rel-18 TR  Depends on Issue 3-1 |
| [**R4-2409515**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2409515.zip) | Draft CR to TS 38.101-1: Clarification on PC1 Rx requirements for FRMCS operation in bands n100/n101 | Huawei, HiSilicon | CR to 38.101-1: Adds a reference to ECC decision on clause 6.1 and clause 7.1.  Depends on Issue 3-1 |
| [**R4-2409516**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2409516.zip) | Draft LS to ETSI TC RT on missing receiver characteristics of the n100/n101 HPUE cab-radio based on ECC(20)02 | Huawei, HiSilicon | LS to ETSI TC RT  Depends on Issue 3-1 |
| [**R4-2409518**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2409518.zip) | CR to TR 38.853: Clarification on PC1 Rx requirements for FRMCS operation in band n100 | Huawei, HiSilicon | CR to Rel-18 TR Introduction of 900MHz NR band for Europe for Rail Mobile Radio (RMR)  Depends on Issue 3-1 |
| [**R4-2409527**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2409527.zip) | CR to TS 38.101-1: Clarification on PC1 applicability for bands n100 and n101 | Huawei, HiSilicon | CR to 38.101-1  **Offline discussion is needed especially as some changes are general to all power classes.** |
| [**R4-2409778**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2409778.zip) | CR to TR 38.852: Clarification on PC1 Rx requirements for FRMCS operation in band n101 | Huawei, HiSilicon | CR to Rel-17 TR Introduction of 1900MHz NR band for Europe for Rail Mobile Radio (RMR)  Depends on Issue 3-1 |
| [**R4-2407124**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2407124.zip) | Rx requirements for n100/n101 PC1 HPUE cab-radio | Union Inter. Chemins de Fer | CR to 38.101-1  **Proposal 1**: Agree not to state in the TS 38.101-1 that band n100/n101 cab-radio receiver requirements are not covered in the TS.  **Proposal 1**: Agree to reflect in the TR 38.852 and TR 38.853 that the band n100/n101 cab-radio receiver requirements are covered in the ETSI TS 103.793 as proposed in the draft CRs [9] and [10]. |
| [**R4-2407125**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2407125.zip) | Draft CR - Addition of PC1 HPUE to TR 38.852 | Union Inter. Chemins de Fer | TP to TR Rel-18 TR Introduction of 900MHz NR band for Europe for Rail Mobile Radio (RMR)  Depends on Issue 3-1 |
| [**R4-2407126**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2407126.zip) | Draft CR - Addition of PC1 HPUE to TR 38.853 | Union Inter. Chemins de Fer | TP to TR Rel-19 TR Introduction of 900MHz NR band for Europe for Rail Mobile Radio (RMR)  Depends on Issue 3-1 |

## Open issues summary

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

#### Issue 3-1: Is EEC decision referenced from 3GPP specification and technical reports

* Proposals
  + Option 1: yes
  + Option 2: No
  + Option 3: Only technical reports
* Recommended WF
  + Offline discussion is needed.

# Topic #4: Editorials or clarifications

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

## Companies’ contributions summary

|  |  |  |  |
| --- | --- | --- | --- |
| **T-doc number** | **Title** | **Company** | **Proposals / Observations** |
| [**R4-2409514**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2409514.zip) | TP to TR 37.829: Corrections | Huawei, HiSilicon | TP to Rel-19 TR:  Looks agreeable, proponents to talk offline. |
| [**R4-2407428**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2407428.zip) | CR to TR 37.828 on clarification of simulation results | Nokia | CR to Rel-18 TR:  There is no coexistence simulation result in clause 5.2 without any explanation. Clarify that the simulation results and conclusion that have been recorded in the approved TR 37.880 can be applied.  Looks agreeable, proponents to talk offline. |
| [**R4-2407429**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2407429.zip) | TP to TR 37.829: Clarification of simulation results | Nokia | TP to Rel-19 TR:  Looks agreeable. , proponents to talk offline. |
| [**R4-2407430**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2407430.zip) | TP to TR 37.829: Updates of band list | Nokia | TP to Rel-19 TR:  Looks agreeable, proponents to talk offline. |
| [**R4-2407431**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2407431.zip) | TP to TR 37.829: Editorial corrections | Nokia | TP to Rel-19 TR:  Looks agreeable, proponents to talk offline. |
| [**R4-2407442**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2407442.zip) | CR to TR 37.828 on clarification of simulation results | Nokia | CR to Rel-18 TR:  Looks agreeable, proponents to talk offline. |