**3GPP TSG-RAN WG4 Meeting #114 *R4-2500665***

**Athens, Greece, 17th – 21st February 2025**

**Agenda item:** 6.1

**Source:** Moderator (Nokia)

**Title:** Topic summary for [114][113] NR\_LTE\_NR\_Bands

**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 of contributions under agenda item 6.14 (NR\_FDD\_1400MHz), 6.15 (LTE\_FDD\_1800\_1830MHz\_CAN), 6.16 (NR\_bands\_n87\_n88) and 6.17 (NR\_band\_n68).

# Topic #1: Introduction of the 1.4 GHz Band

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

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| [**R4-2500099**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500099.zip) | Nokia, MidWave Wireless | CR |
| [**R4-2500100**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500100.zip) | Nokia, MidWave Wireless | CR |
| [**R4-2500101**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500101.zip) | Nokia, MidWave Wireless | CR |
| [**R4-2500128**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500128.zip) | Ericsson | CR |
| [**R4-2500129**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500129.zip) | Ericsson | CR |
| [**R4-2500185**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500185.zip) | ZTE Corporation, Sanechips | CR |
| [**R4-2500186**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500186.zip) | ZTE Corporation, Sanechips | CR |
| [**R4-2500187**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500187.zip) | ZTE Corporation, Sanechips | CR |
| [**R4-2500188**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500188.zip) | Huawei, HiSilicon | CR |
| [**R4-2500189**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500189.zip) | Huawei, HiSilicon | CR |
| [**R4-2500190**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500190.zip) | Huawei, HiSilicon | CR |
| [**R4-2500191**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500191.zip) | Huawei, HiSilicon | CR |
| [**R4-2500204**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500204.zip) | Nokia, MidWave Wireless | CR |
| [**R4-2500205**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500205.zip) | Nokia, MidWave Wireless | CR |
| [**R4-2500206**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500206.zip) | Nokia, MidWave Wireless | CR |
| [**R4-2500207**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500207.zip) | Nokia, MidWave Wireless | CR |
| [**R4-2500208**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500208.zip) | Nokia, MidWave Wireless | CR |
| [**R4-2500406**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500406.zip) | Nokia | CR |
| [**R4-2501057**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2501057.zip) | CATT | CR |

# Topic #2: Introduction of LTE FDD band in 1800-1830 MHz for Canada

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

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| [**R4-2500018**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500018.zip) | Novamint | CR |
| [**R4-2500019**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500019.zip) | Novamint | CR |
| [**R4-2500020**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500020.zip) | Novamint | CR |
| [**R4-2500022**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500022.zip) | Novamint | CR |
| [**R4-2500023**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500023.zip) | Novamint | CR |
| [**R4-2500024**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500024.zip) | Novamint | CR |
| [**R4-2500025**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500025.zip) | Novamint | CR |
| [**R4-2500026**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500026.zip) | Novamint | CR |
| [**R4-2500027**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500027.zip) | Novamint | CR |
| [**R4-2500028**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500028.zip) | Novamint | CR |
| [**R4-2500029**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500029.zip) | Novamint | CR |
| [**R4-2500030**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500030.zip) | Novamint | CR |
| [**R4-2500031**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500031.zip) | Novamint | CR |
| [**R4-2500032**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500032.zip) | Novamint | CR |
| [**R4-2500033**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500033.zip) | Novamint | CR |
| [**R4-2500034**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500034.zip) | Novamint | CR |
| [**R4-2500035**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500035.zip) | Novamint | CR |
| [**R4-2500060**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500060.zip) | Novamint | CR |

# Topic #3: Introduction of NR bands n87 and n88

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

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| [**R4-2500080**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500080.zip) | Huawei, HiSilicon | CR |
| [**R4-2500081**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500081.zip) | Huawei, HiSilicon | CR |
| [**R4-2500082**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500082.zip) | Huawei, HiSilicon | CR |
| [**R4-2500083**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500083.zip) | Huawei, HiSilicon | CR |
| [**R4-2500084**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500084.zip) | Huawei, HiSilicon | CR |
| [**R4-2500091**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500091.zip) | Nokia | CR |
| [**R4-2500092**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500092.zip) | Nokia | CR |
| [**R4-2500093**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500093.zip) | Nokia | CR |
| [**R4-2500094**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500094.zip) | Nokia | CR |
| [**R4-2500124**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500124.zip) | Ericsson | CR |
| [**R4-2500125**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500125.zip) | Ericsson | CR |
| [**R4-2500126**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500126.zip) | Ericsson | CR |
| [**R4-2500127**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500127.zip) | Ericsson | CR |
| [**R4-2500175**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500175.zip) | ZTE Corporation, Sanechips | CR |
| [**R4-2500176**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500176.zip) | ZTE Corporation, Sanechips | CR |
| [**R4-2500177**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500177.zip) | ZTE Corporation, Sanechips | CR |
| [**R4-2500178**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500178.zip) | ZTE Corporation, Sanechips | CR |
| [**R4-2500179**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500179.zip) | ZTE Corporation, Sanechips | CR |
| [**R4-2501055**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2501055.zip) | CATT | CR |

# Topic #4: Introduction of NR band n68

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

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| [**R4-2500076**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500076.zip) | Huawei, HiSilicon | CR |
| [**R4-2500077**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500077.zip) | Huawei, HiSilicon | CR |
| [**R4-2500078**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500078.zip) | Huawei, HiSilicon | CR |
| [**R4-2500079**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500079.zip) | Huawei, HiSilicon | CR |
| [**R4-2500095**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500095.zip) | Nokia | CR |
| [**R4-2500096**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500096.zip) | Nokia | CR |
| [**R4-2500097**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500097.zip) | Nokia | CR |
| [**R4-2500098**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500098.zip) | Nokia | CR |
| [**R4-2500120**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500120.zip) | Ericsson | CR |
| [**R4-2500121**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500121.zip) | Ericsson | CR |
| [**R4-2500122**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500122.zip) | Ericsson | CR |
| [**R4-2500130**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500130.zip) | Ericsson Limited | CR |
| [**R4-2500180**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500180.zip) | ZTE Corporation, Sanechips | CR |
| [**R4-2500181**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500181.zip) | ZTE Corporation, Sanechips | CR |
| [**R4-2500182**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500182.zip) | ZTE Corporation, Sanechips | CR |
| [**R4-2500183**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500183.zip) | ZTE Corporation, Sanechips | CR |
| [**R4-2500184**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500184.zip) | ZTE Corporation, Sanechips | CR |
| [**R4-2500309**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500309.zip) | Apple | A-MPR proposals |
| [**R4-2500423**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2500423.zip) | Nokia | A-MPR proposals |
| [**R4-2501056**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2501056.zip) | CATT | CR |
| [**R4-2501739**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2501739.zip) | Qualcomm Technologies | A-MPR proposals |
| [**R4-2501825**](https://www.3gpp.org/ftp/tsg_ran/WG4_Radio/TSGR4_114/Docs/R4-2501825.zip) | Nokia | CR |

## 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 4-1

*Sub-topic description: A-MPR*

*Open issues and candidate options before meeting:*

**Issue 4-1: A-MPR**

* Proposals
  + Option 1: Decide final A-MPR results on the basis of R4-2500309, R4-2500423 and R4-2501739
  + Option 2: TBD
* Recommended WF
  + Option 1