**3GPP TSG-RAN WG4 Meeting #109 R4-2318123  
Chicago, USA, November 13th – 17th, 2023**

**Agenda item: 7**.32.4

**Source:** Moderator (Vodafone)

**Title:** Topic summary for [109][117] NR\_FDD\_ULn28\_DLn75\_n76

**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.*

This email thread is focused on AI 7.32 FDD Band using the uplink from n28 and the downlink of n75.

# Topic #1: CRs to Introduce n109

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

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| [**R4-2318435**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_109/Docs/R4-2318435.zip) | Apple, Vodafone | CR to 38.101-3 on introduction of band n109 |
| [**R4-2318639**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_109/Docs/R4-2318639.zip) | Huawei, HiSilicon, Vodafone | CR to TS 37.104 Introduction of n109 |
| [**R4-2318640**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_109/Docs/R4-2318640.zip) | Huawei, HiSilicon, Vodafone | CR to TS36.141 Introduction of n109 |
| [**R4-2318641**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_109/Docs/R4-2318641.zip) | Huawei, HiSilicon, Vodafone | CR to TS38.141-1 Introduction of n109 |
| [**R4-2318660**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_109/Docs/R4-2318660.zip) | Huawei, HiSilicon, Vodafone | CR to TS38.141-2 Introduction of n109 |
| [**R4-2318661**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_109/Docs/R4-2318661.zip) | Huawei, HiSilicon, Vodafone | CR to TS36.104 Introduction of n109 |
| [**R4-2319592**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_109/Docs/R4-2319592.zip) | Ericsson, Vodafone | CR to TS 37.145-1 - Introduction of band n109 |
| [**R4-2319593**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_109/Docs/R4-2319593.zip) | Ericsson, Vodafone | CR to TS 37.145-2 - Introduction of band n109 |
| [**R4-2319594**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_109/Docs/R4-2319594.zip) | Ericsson, Vodafone | CR to TS 38.106 - Introduction of band n109 |
| [**R4-2319595**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_109/Docs/R4-2319595.zip) | Ericsson, Vodafone | CR to TS 38.115-1 - Introduction of band n109 |
| [**R4-2319596**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_109/Docs/R4-2319596.zip) | Ericsson, Vodafone | CR to TS 38.133 - Introduction of band n109 |
| [**R4-2320402**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_109/Docs/R4-2320402.zip) | Nokia, Nokia Shanghai Bell, Vodafone | CR to 37.105 on introduction of Band n109 |
| [**R4-2320403**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_109/Docs/R4-2320403.zip) | Nokia, Nokia Shanghai Bell, Vodafone | CR to 37.141 on introduction of Band n109 |
| [**R4-2320404**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_109/Docs/R4-2320404.zip) | Nokia, Nokia Shanghai Bell, Vodafone | CR to 38.174 on introduction of Band n109 |
| [**R4-2320405**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_109/Docs/R4-2320405.zip) | Nokia, Nokia Shanghai Bell, Vodafone | CR to 38.176-1 on introduction of Band n109 |
| [**R4-2320406**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_109/Docs/R4-2320406.zip) | Nokia, Nokia Shanghai Bell, Vodafone | CR to 38.176-2 on introduction of Band n109 |
| [**R4-2320593**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_109/Docs/R4-2320593.zip) | VODAFONE | CR to TS38.104: Introduction of n109 |
| [**R4-2320603**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_109/Docs/R4-2320603.zip) | Vodafone, Huawei, Skyworks Solutions, Murata Manufacturing Co Ltd | CR to TS38.101-1: Introduction of n109 |

## Open issues summary

**Issue 1-1: CR to TS 38.101-3 on introduction of band n109**

* Proposals:
  + Option 1: Approve R4-2318435
  + Option 2: Revise R4-2318435
* Recommended WF
  + Option 1

**Issue 1-2: CR to TS 37.104 on introduction of band n109**

* Proposals:
  + Option 1: Approve R4-2318639
  + Option 2: Revise R4-2318639
* Recommended WF
  + Option 1

**Issue 1-3: CR to TS 36.141 on introduction of band n109**

* Proposals:
  + Option 1: Approve R4-2318640
  + Option 2: Revise R4-2318640
* Recommended WF
  + Option 1

**Issue 1-4: CR to TS 38.141-1 on introduction of band n109**

* Proposals:
  + Option 1: Approve R4-2318641
  + Option 2: Revise R4-2318641
* Recommended WF
  + Option 1

**Issue 1-5: CR to TS 141-2 on introduction of band n109**

* Proposals:
  + Option 1: Approve R4-2318660
  + Option 2: Revise R4-2318660
* Recommended WF
  + Option 1

**Issue 1-6: CR to TS 36.104 on introduction of band n109**

* Proposals:
  + Option 1: Approve R4-2318661
  + Option 2: Revise R4-2318661
* Recommended WF
  + Option 1

**Issue 1-7: CR to TS 37.145-1 on introduction of band n109**

* Proposals:
  + Option 1: Approve R4-2319592
  + Option 2: Revise R4-2319592
* Recommended WF
  + Option 1

**Issue 1-8: CR to TS 37.145-2 on introduction of band n109**

* Proposals:
  + Option 1: Approve R4-2319593
  + Option 2: Revise R4-2319593
* Recommended WF
  + Option 1

**Issue 1-9: CR to TS 38.106 on introduction of band n109**

* Proposals:
  + Option 1: Approve R4-2319594
  + Option 2: Revise R4-2319594
* Recommended WF
  + Option 1

**Issue 1-10: CR to TS 38.115-1 on introduction of band n109**

* Proposals:
  + Option 1: Approve R4-2319595
  + Option 2: Revise R4-2319595
* Recommended WF
  + Option 1

**Issue 1-11: CR to TS 38.133 on introduction of band n109**

* Proposals:
  + Option 1: Approve R4-2319596
  + Option 2: Revise R4-2319596
* Recommended WF
  + Option 1

**Issue 1-12: CR to TS 37.105 on introduction of band n109**

* Proposals:
  + Option 1: Approve R4-2320402
  + Option 2: Revise R4-2320402
* Recommended WF
  + Option 1

**Issue 1-13: CR to TS 37.141 on introduction of band n109**

* Proposals:
  + Option 1: Approve R4-2320403
  + Option 2: Revise R4-2320403
* Recommended WF
  + Option 1

**Issue 1-14: CR to TS 38.174 on introduction of band n109**

* Proposals:
  + Option 1: Approve R4-2320404
  + Option 2: Revise R4-2320404
* Recommended WF
  + Option 1

**Issue 1-15: CR to TS 38.176-1 on introduction of band n109**

* Proposals:
  + Option 1: Approve R4-2320405
  + Option 2: Revise R4-2320405
* Recommended WF
  + Option 1

**Issue 1-16: CR to TS 38.176-2 on introduction of band n109**

* Proposals:
  + Option 1: Approve R4-2320406
  + Option 2: Revise R4-2320406
* Recommended WF
  + Option 1

**Issue 1-17: CR to TS 38.104 on introduction of band n109**

* Proposals:
  + Option 1: Approve R4-2320593
  + Option 2: Revise R4-2320593
* Recommended WF
  + Option 1

**Issue 1-18: CR to TS 38.101-1 on introduction of band n109**

* Proposals:
  + Option 1: Approve R4-2320603
  + Option 2: Revise R4-2320603
* Recommended WF
  + Option 1