**3GPP TSG-RAN WG4 Meeting #112 *R4-2413402***

**Maastricht, Netherland, August 19 – 23, 2024**

**Agenda item: 5.23.9**

**Source:** Moderator (Ericsson)

**Title:** Topic summary for [112][302] NR\_NTN\_enh\_SAN\_RF

**Document for:** Information

# Introduction

This document is a summary of the proposals made in the contributions submitted under AI 5.23.3 and AI 5.23.4 for the RAN4 #112 meeting.

# Topic #1: SAN RF and conformance

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| **NA** |  |  |

## Open issues summary

### Sub-topic 1-1

*Sub-topic description:* This sub-topic is related to SAN spurious limit for FR2-NTN

**Issue 1-1-1: SAN type 2-O - spurious limit**

* Proposals: Change Prated,c,TRP to Prated,t,TRP for the general OTA transmitter spurious emissions requirements
	+ Agree, Prated,c,TRP is not applicable for multi-carrier (CATT)
	+ Disagree
* Recommended WF

**Issue 1-1-2: SAN type 2-O – spurious limit (related CRs)**

* Proposals: Based on the issue 1-1-1’s decision, check if the following CRs could be agreed:

|  |  |  |  |
| --- | --- | --- | --- |
| **T-doc number** | **Company** | **Title** | **To be Endorsed or Revised?** |
| [**R4-2411133**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_112/Docs/R4-2411133.zip) | CATT | (NR\_NTN\_enh-Core)CR for TS 38.108, Correction on general SAN transmitter spurious emission limits for SAN type 2-O | Pending on issue 1-1-1 decision. |
| [**R4-2411134**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_112/Docs/R4-2411134.zip) | CATT | (NR\_NTN\_enh-Perf)CR for TS 38.181, Correction on general SAN transmitter spurious emission limits for SAN type 2-O | Compared to R4-2411133, an additional change is proposed to the Tx overview table. Also pending on issue 1-1-1 decision. |

### Sub-topic 1-2

*Sub-topic description:* This sub-topic is related to the NTN FRCs’ naming.

**Issue 1-2-1: NTN FRCs’ naming**

* Proposals: Rename NTN FRCs with G-FR2-NTN-A1-1 (instead of G-FR2-A1-1)
	+ Agree, to align with demod clauses (Ericsson)
	+ Disagree
* Recommended WF
	+ As demod experts already agreed on this change, this should be acceptable.

**Issue 1-1-2: NTN FRCs’ naming (related CRs)**

* Proposals: Based on the issue 1-2-1’s decision, check if the following CRs could be agreed:

|  |  |  |  |
| --- | --- | --- | --- |
| **T-doc number** | **Company** | **Title** | **To be Endorsed or Revised?** |
| [**R4-2412302**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_112/Docs/R4-2412302.zip) | Ericsson | CR for 38.108 on RF FR2-NTN FRC alignments | Pending on issue 1-2-1 decision + some editorials |
| [**R4-2412303**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_112/Docs/R4-2412303.zip) | Ericsson | (NR\_NTN\_enh-Core) CR to 38.181 correction on FRC and naming alignment | Pending on issue 1-2-1 decision + missing FRCs definition. |

# Recommendations for Tdocs

**Existing tdocs**

|  |  |  |  |
| --- | --- | --- | --- |
| **Tdoc number** | **Source** | **Recommendation**  | **Comments** |
| [**R4-2411133**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_112/Docs/R4-2411133.zip) | CATT |  | Pending on issue 1-1-1 decision. |
| [**R4-2411134**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_112/Docs/R4-2411134.zip) | CATT |  | Compared to R4-2411133, an additional change is proposed to the Tx overview table. Also pending on issue 1-1-1 decision. |
| [**R4-2412302**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_112/Docs/R4-2412302.zip) | Ericsson |  | Pending on issue 1-2-1 decision + some editorials |
| [**R4-2412303**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_112/Docs/R4-2412303.zip) | Ericsson |  | Pending on issue 1-2-1 decision + missing FRCs definition. |