**3GPP TSG-RAN WG4 Meeting #111 R4-2410102**

**Fukuoka City, Fukuoka, Japan, 20th May – 24th May 2024**

**Agenda item:** 7.16.9

**Source:** Moderator (Samsung)

**Title:** Topic summary for [111][307] NR\_NTN\_enh\_Part3

**Document for:** Information

# Introduction

This document captures issues related to the coexistence aspect of NR NTN enhancement work item in Rel-18. It contains a summary of contributions under Agenda Item 7.16.2 at TSG-RAN WG4 #111, together with identified key open issues, and recommends topics/questions to be handled during this meeting.

The purpose of this document is to facilitate discussions to conclude coexistence studies.

A total of 4 TDocs was received for AI 7.16.2 and 2 topics are listed below to cover proposals and contents in these documents as appropriate.

* Topic #1: Conclusion of coexistence studies
* Topic #2: CRs to TR 38.863

# Topic #1: NTN VSAT UE ACS value

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2407509 | CATT | NOTE 2:   There are existing non-3GPP VSAT UE operating in Ka band at present and will likely continue operating in the future, with ACS performance lower than the value.  **Observation 1: The Note 2 in R4-2406134 may cause some potential coexistence issues.** |
| R4-2409323 | Huawei, HiSilicon | **Observation 1: When RAN4 concluding the summary of coexistence case 5 (VSAT UE ACS), some soft wordings from Qualitative perspective seem better than a specific ACIR value currently.** |

## Open issues summary

**Issue 1-1: Conclusion on coexistence studies**

* Proposals
  + The wording of the conclusion of VSAT ACS and relative notes should be tuned.
* Recommended WF
  + Due considerations of the proposal should be taken when reviewing relevant CRs listed in Topic #2.

# Topic #2: CRs on TR 38.863

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2408414 | Samsung | CR on TR 38.863 Addition of simulation results in above 10GHz. Formal document based on R4-2405084endorsed in RAN4#110bis. |
| R4-2408415 | Samsung | CR on TR38.863 Summary of coexistence results in above 10GHz |

## Open issues summary

**Issue 2-1: CRs to TR 38.863**

* Proposals
  + Option 1: Review R4-2408414 and R4-2408415, and revise if needed for agreement.
* Recommended WF
  + Review R4-2408414 and R4-2408415, and revise if needed for agreement.

# Recommendation on TDOCs

*Suggested status: Not treated/Not pursued/Return to/Noted/Agreed/Approved/Endorsed/Revised/Merged/Postponed/Reserved/Withdrawn*

**Inputs to this meeting**

|  |  |  |
| --- | --- | --- |
| TDoc No. | Suggested status | Comments |
| R4-2407509 | [Noted] |  |
| R4-2408414 | [Agreed] |  |
| R4-2408415 | [Revised/merged] |  |
| R4-2409323 | [Noted] |  |

**New Tdocs during the meeting**

|  |  |  |
| --- | --- | --- |
| TDoc No. | Suggested status | Comments |
| R4-2410102 |  | Topic Summary for [111][307] NR\_NTN\_enh\_Part3 |
| R4-24xxxxx |  | Draft CR on TR 38.863 |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

# Annex 1 TDoc list

A total of 4 TDocs have been received for Agenda Item 7.16.2 and listed as below.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **TDoc No.** | **Title** | **Source** | **Type** | **For** | **Agenda Item** | **Status** |
| [**R4-2407509**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2407509.zip) | Discussion on note of the NTN UE ACS table | CATT | Other | Approval | 7.16.2 | **available** |
| [**R4-2408414**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2408414.zip) | CR on TR 38.863 Addition of simulation results in above 10GHz | Samsung | CR | Agreement | 7.16.2 | **available** |
| [**R4-2408415**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2408415.zip) | CR on TR38.863 Summary of coeixstence results in above 10GHz | Samsung | CR | Agreement | 7.16.2 | **available** |
| [**R4-2409323**](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2409323.zip) | Discussion on conclusion of Ka band coexistence study | Huawei, HiSilicon | Other | Approval | 7.16.2 | **available** |