**3GPP TSG-RAN WG4 Meeting # 111 R4-2410120**

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

**Agenda item: 7.18.7**

**Source:** ZTE Corporation, Sanechips

**Title:** Topic summary for [111][327] NR\_netcon\_repeater\_Demod

**Document for:** Information

# Introduction

*This email discussion focuses on demodulation requirements for Rel-18 NCR-MT, including agenda 7.18.7 .*

# Topic #1: NCR-MT demodulation requirements

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

## Companies’ contributions summary

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| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2409413 | Nokia | Proposal 1: RAN4 to use the prefix “M-FRx-NCR” in the FRC numbering to associate the FRC numbers with the feature (NCR) instead of the corresponding Annex. This will allow the FRC number to be aligned across NCR specifications.Proposal 2: The Sections allocated for FRCs across the NCR specifications themselves shall be rearranged to avoid any Voids sections.Proposal 3: The FRCs for QPSK and 16QAM could be merged into one table, and hence, the sections across NCR specifications for FR1 and FR2 could be well aligned. |
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## 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 1-1 FRC numbers for NCR

**Issue 1-1-1: FRC numbers for NCR between core part and conformance testing part**

* Proposals
	+ Option 1: RAN4 to use the prefix “M-FRx-NCR” in the FRC numbering to associate the FRC numbers with the feature (NCR) instead of the corresponding Annex. This will allow the FRC number to be aligned across NCR specifications. (Nokia)
		- Option 1A: The FRCs for QPSK and 16QAM could be merged into one table, and hence, the sections across NCR specifications for FR1 and FR2 could be well aligned. (Nokia)
* Recommended WF
	+ Check whether Option 1 can be agreed.

# Topic #2: CRs

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

## Companies’ contributions summary

Moderator: companies are encouraged to check the recommendation for each contributions.

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| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2408972 | Huawei, HiSilicon | Draft big CR was Endorsed in last RAN4#110bis meeting. |
| R4-2409414 | Nokia, ZTE Corporation, Ericsson | -New FRC naming in Appendix B-Updates the corresponding FRCs naming for Conductance Testing (8.2.2, 8.2.3)Updates the corresponding FRCs naming for Radiated Testing (9.3) |
| R4-2409415 | Nokia, ZTE Corporation, Ericsson | -New FRC naming in Appendix FUpdates the corresponding FRCs naming for Conductance Testing (7.1.2, 7.1.3) |
| R4-2409416 | Nokia, ZTE Corporation, Ericsson | -New FRC naming in Appendix HUpdates the corresponding FRCs naming for Radiated Testing (7.1.2, 7.1.3) |
| R4-2409417 | Nokia | Draft CR was Endorsed in last RAN4#110bis meeting. |
| R4-2409418 | Nokia | Draft CR was Endorsed in last RAN4#110bis meeting. |
| R4-2409419 | Nokia | Draft CR was Endorsed last RAN4#110bis meeting. And merged with big CR (R4-2408972). |

## Background

NR\_netcon\_repeater\_Demod has undergone the bigCR approach, whereby the following companies have been responsible for the bigCRs for the relevant specifications with potential impact from the Work Item.

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| CR Split |
| Specification | Company |
| 38.106 | ZTE Corporation, Sanechips |
| 38.115-1 | Huawei, HiSilicon |
| 38.115--2 | Nokia |

To avoid sending several CRs for each specification to Plenary it is proposed that companies can combine their contributions based on the open issues to be discussed at the meeting.

Note： Depending on Issue 1-1-1 it is possible, and no big CR numbers reserved for TS 38.106 and 38.115-2 in RAN4#111 meeting. And one big CR submitted for 38.115-1 in this meeting (R4-2408972).

# Topic #3: Recommendation for Tdocs

If Issue 1-1-1can be agreed, three CRs need to be revised and three CRs need to be merged.

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| --- | --- | --- |
| **T-doc number** | **Suggested status** | **Comments** |
| **R4-2408972** | Agreement | Depending on Issue 1-1-1 |
| **R4-2409413** | Noted |  |
| **R4-2409414** | Agreement | Depending on Issue 1-1-1 |
| **R4-2409415** | Agreement | Depending on Issue 1-1-1. Considering HW submitted a big CR for 38.115-1. If Issue 1-1-1 can be agreed, prppose to merge CRs (R4-2409415) to big CR (R4-2408972). |
| **R4-2409416** | Agreement | Depending on Issue 1-1-1 |
| **R4-2409417** | Merged (with R4-2409414) | Depending on Issue 1-1-1 |
| **R4-2409418** | Merged (with R4-2409415) | Depending on Issue 1-1-1 |
| **R4-2409419** | Merged (with R4-2409416) | Depending on Issue 1-1-1 |