**3GPP TSG-RAN WG4 Meeting#111 R4-240xxxxx**

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

**Agenda item:** 7.18.8

**Source:** Moderator (ZTE)

**Title:** Topic summary for [111][308] NR\_netcon\_repeater\_RF

**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.*

*List of candidate target of email discussion for 1st round and 2nd round*

* 1st round: TBA
* 2nd round: TBA

It is appreciated that the delegates for this topic put their contact information in the table below.

Contact information

|  |  |  |
| --- | --- | --- |
| **Company** | **Name** | **Email address** |
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Note:

1. Please add your contact information in above table once you make comments on this email thread.
2. If multiple delegates from the same company make comments on single email thread, please add you name as suffix after company name when make comments i.e. Company A (XX, XX)

The e-mail discussion covers RRM core part requirement maintenance and perf part requirements for NCR-MT in Rel-18. All contributions submitted are divided into the following Topics:

1. Core requirements maintenance
2. Perf requirement discussions.

# Topic #1: NCR Core part maintenance

## Companies’ contributions summary

(Cat A CRs are not listed)

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| **[R4-2408206](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2408206.zip)** | NEC | Discussion on requirement set applicability table for NCR  **Proposal 1:**  **To state clearly in TS 38.106 that the unwanted emissions requirements are defined on the total emissions from NCR-MT and NCR-Fwd for simultaneous transmission cases.**  **Proposal 2:**  **To modify the requirement set applicability table in TS 38.106 as shown in the discussion part and modify the clause structure accordingly.**  **Proposal 3:**  **To modify the clause structures of the conformance specifications, TS 38.115-1 and 38.115-2 to be aligned to that of TS 38.106.** |
| **[R4-2408207](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2408207.zip)** | NEC | CR to 38.106: Correction of requirement set applicability table |
| **[R4-2408208](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2408208.zip)** | NEC | CR to 38.106: Correction on unwanted emissions |
| **[R4-2408209](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2408209.zip)** | NEC | draft CR to 38.106: Correction on repeater output power requirements |
| **[R4-2408210](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2408210.zip)** | NEC | CR to 38.106: Correction on clause titles for NCR-MT requirements |
| **[R4-2408211](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2408211.zip)** | NEC | Discussion on ACLR requirements for NCR |
| **[R4-2408212](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2408212.zip)** | NEC | CR to 38.106: ACLR requirements for NCR |
| **[R4-2407503](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2407503.zip)** | CATT | Discussion on specification suffix information for NCR core spec |
| **[R4-2407504](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2407504.zip)** | CATT | CR for TS 38.106, Correction on ACLR requirement for NCR |
| **[R4-2407505](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2407505.zip)** | CATT | CR for TS 38.106, Correction on ACRR requirement for NCR |
| **[R4-2407506](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2407506.zip)** | CATT | CR for TS 38.106, Correction on conducted receiver general requirement |
| **[R4-2409079](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2409079.zip)** | Nokia | CR to TS 38.106: maintenance corrections |
| **[R4-2409080](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2409080.zip)** | Nokia | CR to TS 38.106: NCR-Fwd editorials maintenance |

## Open issues summary

*Before e-Meeting, moderators shall summarize list of open issues, candidate options and possible WF (if appli cable) based on companies’ contributions.*

### Sub-topic 1 Maintenance

*Open issues and candidate options before e-meeting:*

*This access beam switching delay requirement has been discussed in the previous meetings, it was agreed to not to define any specific requirement for it.*

**Issue 1-**1: Spec structure for NCR core and perf specification

* Proposal 1: To state clearly in TS 38.106 that the unwanted emissions requirements are defined on the total emissions from NCR-MT and NCR-Fwd for simultaneous transmission cases. [NEC]
* Proposal 2:To modify the requirement set applicability table in TS 38.106 as shown in the discussion part and modify the clause structure accordingly.[NEC]
* Proposal 3: To modify the clause structures of the conformance specifications, TS 38.115-1 and 38.115-2 to be aligned to that of TS 38.106. [NEC]
* Recommended for further discussion:
  + To be further discussed online;

**Issue 1-**2: CR to 38.106: Correction of requirement set applicability table, [NEC, **[R4-2408207](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2408207.zip)**]

* Recommended WF:
  + This depends on the discussion outcome for Issue 1-1.

**Issue 1-**3: CR to 38.106: Correction on unwanted emissions, [NEC, **[R4-2408208](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2408208.zip)**]

* Recommended WF:

This depends on the discussion outcome for Issue 1-1.

**Issue 1-**4: draft CR to 38.106: Correction on repeater output power requirements, [NEC, **[R4-2408209](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2408208.zip)**]

* Recommended WF:
  + This depends on the discussion outcome for Issue 1-1.

**Issue 1-**5: CR to 38.106: Correction on clause titles for NCR-MT requirements, [NEC, **[R4-2408210](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2408210.zip)**]

* Recommended WF:
  + This depends on the discussion outcome for Issue 1-1.

**Issue 1-**6: ACLR requirements for NCR, [NEC, **[R4-2408211](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2408211.zip)**]

* Proposal 1: To modify the definition of the nominal channel bandwidth for the simultaneous transmission case as,
* if the NCR-MT carrier is within the NCR-Fwd: the frequency offset from the lower/upper edge of the passband and the lower/upper edge of the NCR-MT carrier. If this bandwidth is not defined for BS channel bandwidth for the operating band, nominal channel bandwidth shall be defined as the widest BS channel bandwidth for the operating band which is narrower than the bandwidth. If BS channel bandwidth narrower than the bandwidth is not defined then nominal channel bandwidth shall be the channel bandwidth of the NCR-MT
* Recommended for further discussion:
  + To be further discussed online;

**Issue 1-**7: CR to 38.106: ACLR requirements for NCR, [NEC, **[R4-2408212](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2408211.zip)**]

* Recommended for further discussion:
  + This depends on the discussion outcome for Issue 1-6.

**Issue 1-**8: CR for TS 38.106, Correction on ACLR requirement for NCR, [CATT, **[R4-2407504](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2407504.zip)**]

* Recommended WF:
  + Agreed

**Issue 1-**9: CR for TS 38.106, Correction on ACRR requirement for NCR, [CATT, **[R4-2407505](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2407505.zip)**]

* Recommended WF:
  + Agreed

**Issue 1-**10: CR for TS 38.106, Correction on conducted receiver general requirement, [CATT, **[R4-2407506](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2407506.zip)**]

* Recommended WF:
  + Agreed

**Issue 1-**11: CR to TS 38.106: maintenance corrections, [Nokia, **[R4-2409079](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2409079.zip)**]

* Recommended WF:
  + Agreed

**Issue 1-**12: CR to TS 38.106: NCR-Fwd editorials maintenance, [Nokia, **[R4-2409080](https://www.3gpp.org/ftp/TSG_RAN/WG4_Radio/TSGR4_111/Docs/R4-2409080.zip)**]

* Recommended WF:
  + Agreed