**3GPP TSG-RAN WG4 Meeting # 111 R4-24XXXXX**

**Fukuoka, JP, May. 20 – May. 24, 2024**

**Agenda item:** 7.18.8

**Source:** Moderator (CATT)

**Title:** Topic summary for [111][309] NR\_netcon\_repeater\_RFConformance

**Document for:** Information

# Introduction

This contribution is the summary for the topic [309] NR\_netcon\_repeater\_RFConformance. It covers the contributions in AI 7.18.8.

# Topic #1: CR for TS 38.115-1 / -2

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2407508 | CATT | BigCR to TS 38.115-1 |
| R4-2409564 | HUAWEI | Updated Draft CR to TS 38.115-1: Clauses 6.16~6.20 |
| R4-2409565 | HUAWEI | Updated Draft CR to TS 38.115-2: Clauses 6.12~6.16 |
| R4-2409611 | ZTE | Maintenance CR to draft BigCR to TS 38.115-1 |
| R4-2409612 | ZTE | Maintenance CR to draft Big CR to TS 38.115-2 |
| R4-2409613 | ZTE | Big CR to TS 38.115-2: the introduction of NCR |
| ~~R4-2408213~~ | ~~NEC~~ | ~~CR to 38.115-1: Introduction of NCR-Fwd conducted characteristics 6.5 to 6.10~~ |
| ~~R4-2408214~~ | ~~NEC~~ | ~~CR to 38.115-2: Introduction of NCR-Fwd radiated characteristics 6.5 to 6.8~~ |
| R4-2409077 | Nokia | Draft CR to TS 38.115-1: corrections to NCR introduction |
| R4-2409078 | Nokia | Draft CR to TS 38.115-2: corrections to NCR introduction |

## Open issues summary

**Issue 1-1: R4-2407508 CATT**

* Recommended WF
  + **To be revised**

**Issue 1-2: R4-2409564 HUAWEI**

* Recommended WF
  + **To be checked during the meeting**

**Issue 1-3: R4-2409565 HUAWEI**

* Recommended WF
  + **To be checked during the meeting**

**Issue 1-4: R4-2409611 ZTE**

* Recommended WF
  + **To be checked during the meeting**

**Issue 1-5: R4-2409612 ZTE**

* Recommended WF
  + **To be checked during the meeting**

**Issue 1-6: R4-2409613 ZTE**

* Recommended WF
  + **To be agreed**

**Issue 1-7: R4-2409077 Nokia**

* Recommended WF
  + **To be checked during the meeting**

**Issue 1-8: R4-2409078 Nokia**

* Recommended WF
  + **To be checked during the meeting**

# Topic #2: General issues

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2409706 | Nokia | **Observation 1: As the repeater specifications are finalized to avoid ambiguity, the definition of terms in the specifications could be considered for inclusion in specifications such as TS 38-106 [3], TS 38.115-1 [4] and TS 38.115-2 [5] in the Terms section.**  **Proposal 1: When referring to the Release 17 version of the repeater, the term 'RF repeater' should be used.**  **Proposal 2: The term ‘NCR’, including NCR-Fwd and NCR-MT, should refer to the Release 18 version of the repeater.**  **Proposal 3: The term 'Repeater' should be a term that encompasses all variants of repeaters, including the RF repeater, NCR, NCR-Fwd, and NCR-MT. Similarly, the term 'NR repeater' is used to refer to both Rel-17 and Rel-18 repeaters, distinguishing newer repeaters from legacy ones.** |

## Open issues summary

**Issue 2-1: Terminology of repeater**

* Option 1 (Nokia):
  + To unify the terminology of repeater.
    - **RF repeater** for R17 repeater
    - **NCR** (including NCR-Fwd and NCR-MT) for R18 repeater
    - **Repeater** for all variants of repeater (including the RF repeater, NCR, NCR-Fwd, and NCR-MT)
    - **NR repeater** for R17 and R18 repeaters, distinguishing newer repeaters from legacy ones
* Recommended WF
  + **Moderator except this is agreeable without discussion:**
    - **RF repeater** for R17 repeater
    - **NCR** (including NCR-Fwd and NCR-MT) for R18 repeater
    - **Repeater** for all variants of repeater (including the RF repeater, NCR, NCR-Fwd, and NCR-MT)
    - **NR repeater** for R17 and R18 repeaters, distinguishing newer repeaters from legacy ones

# Topic #3: Measurement Uncertainty and Test Tolerance

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2409793 | HUAWEI | **Proposal 1:** MU/TT selection for NCR OTA testing (including both Fwd and MT requirements) shall reuse MU budgets from network notes. |

## Open issues summary

**Issue 3-1: MU & TT for NCR OTA testing**

* Proposals
  + Option 1: (HUAWEI)
    - MU/TT selection for NCR OTA testing (including both Fwd and MT requirements) shall reuse MU budgets from network notes.
* Recommended WF
  + **To be discussed during the meeting**

# Topic #4: CRs for EMC conformance

## Companies’ contributions summary

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Company** | **Proposals / Observations** |
| R4-2407800 | ZTE | (NR\_netcon\_repeater-Perf)draft CR to TS38.114 NCR EMC Clauses 8&9 |
| R4-2409075 | Nokia | Draft CR to TS 38.114 NCR introduction for clauses 4.2, 6 |
|  |  |  |
|  |  |  |
| R4-2409376 | Ericsson | (NR\_netcon\_repeater-Perf) draft CR to TS 38.114 |
| R4-2409566 | HUAWEI | Draft CR to TS 38.114: NCR inputs |

## Open issues summary

**Issue 4-1: R4-2407800 ZTE**

* Recommended WF
  + **To be checked during the meeting**

**Issue 4-2: R4-2409075 Nokia**

* Recommended WF
  + **To be checked during the meeting**

**Issue 4-5: R4-2409376 Ericsson**

* Recommended WF
  + **To be checked during the meeting**

**Issue 4-6: R4-2409566 HUAWEI**

* Recommended WF
  + **To be checked during the meeting**

# Annex: CRs and draft CRs to specifications

|  |  |  |
| --- | --- | --- |
| **T-doc number** | **Suggest status** | **Comments** |
| R4-2407508 | Revised | - [**Company**] : [Comments] |
| R4-2409564 | Return to | - [**Company**] : [Comments] |
| R4-2409565 | Return to | - [**Company**] : [Comments] |
| R4-2409611 | Return to | - [**Company**] : [Comments] |
| R4-2409612 | Return to | - [**Company**] : [Comments] |
| R4-2409613 | Agreed | - [**Company**] : [Comments] |
| R4-2407800 | Return to | - [**Company**] : [Comments] |
| R4-2409075 | Return to | - [**Company**] : [Comments] |
| R4-2409077 | Return to | - [**Company**] : [Comments] |
| R4-2409078 | Return to | - [**Company**] : [Comments] |
| R4-2409376 | Return to | - [**Company**] : [Comments] |
| R4-2409566 | Return to | - [**Company**] : [Comments] |
| ~~R4-2408213~~ | Withdrawn | - [**Company**] : [Comments] |
| ~~R4-2408214~~ | Withdrawn | - [**Company**] : [Comments] |