**3GPP TSG-RAN WG4 Meeting # 112 *R4-2413496***

**Maastricht, NL, Aug.19 - Aug.23, 2024**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.106** | **CR** | **0083** | **rev** | **1** | **Current version:** | **18.5.0** |  |
|  | | | | | | | | |
| *For* ***HE******LP*** *on using this form: comprehensive instructions can be found at  http://www.3gpp.org/Change-Requests.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **X** | Core Network |  |

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| ***Title:*** | CR for TS 38.106, Correction on general requirements for NCR | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | CATT | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_netcon\_repeater-Core | | | | |  | ***Date:*** | | | 2024-06-20 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP TR 21.900. | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | To correct general requirements for NCR | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | To modify the general description in Clause 6.1.  To modify the general description in Clause 7.1. | | | | | | | | |
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| ***Consequences if not approved:*** | | The general requirements of NCR would be confusing. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.1, 7.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | | **X** |  | Test specifications | | | | TS 38.115-1, TS 38.115-2 | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Revised from R4-2411054 | | | | | | | | |

<Start of Change 1>

## 6.1 General

Clause 6 includes the conducted characteristics for both transmitter and receiver.

For conducted transmitter characteristics:

Unless otherwise stated, the conducted transmitter characteristics are specified at:

- Antenna connector for repeater type 1-C and NCR type 1-C (including Fwd and MT interfaces) configuration,

- *TAB connector* for *NCR type 1-H* (including Fwd and MT interfaces) in normal operating conditions.

Requirements apply in both DL and UL unless otherwise stated or declared.

For the DL the *antenna connector* or the *TAB connector* on the BS side is the input and the *antenna connector* or the *TAB connector* on the UE side is the output.

For the UL the *antenna connector* or the *TAB connector* on the UE side is the input and the *antenna connector* or the *TAB connector* on the BS side is the output.

For conducted receiver characteristics:

Conducted receiver characteristics are specified at *antenna connector* for *NCR type 1-C* and TAB connector for *NCR type 1-H*, with full complement of transceivers for the configuration in normal operating condition.

Unless otherwise stated, the following arrangements apply for conducted receiver characteristics requirements in clause 6:

- Requirements apply during the receive period.

- Requirements shall be met for any transmitter setting.

- Throughput requirements defined for the conducted receiver characteristics do not assume HARQ retransmissions.

- For ACS, blocking and intermodulation characteristics, the negative offsets of the interfering signal apply relative to the lower *passband* edge or *inter-passband gap*, and the positive offsets of the interfering signal apply relative to the upper *passband* edge or *inter-passband gap*.

NOTE 1: In normal operating condition the NCR-MT in TDD operation is configured to TX OFF power during *receive period*.

<End of Change 1>

<Start of Change 2>

# 7 Radiated characteristics

## 7.1 General

Clause 7 includes the radiated characteristics for both transmitter and receiver.

For radiated transmitter characteristics:

Radiated transmitter characteristics are specified at RIB for *repeater type 2-O, NCR- type 1-H* (including Fwd and MT interfaces)*,* and *NCR type 2-O* (including Fwd and MT interfaces) including all its functional components active and for all foreseen modes of operation unless otherwise stated.

For radiated receiver characteristics:

Radiated receiver characteristics are specified at RIB for *NCR type 1-H* or *NCR type 2-O*, with full complement of transceivers for the configuration in normal operating condition.

Unless otherwise stated, the following arrangements apply for radiated receiver characteristics requirements in clause 7:

- Requirements apply during the receive period.

- Requirements shall be met for any transmitter setting.

- Throughput requirements defined for the conducted receiver characteristics do not assume HARQ retransmissions.

- For ACS, blocking and intermodulation characteristics, the negative offsets of the interfering signal apply relative to the lower *passband* edge or *inter-passband gap*, and the positive offsets of the interfering signal apply relative to the upper *passband* edge or *inter-passband gap*.

NOTE 1: In normal operating condition the NCR-MT in TDD operation is configured to TX OFF power during *receive period*.

<End of Change 2>