3GPP TSG-RAN WG4 Meeting # 104-e revision\_of\_R4-2214018

Electronic Meeting, August 15 – August 26, 2022

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.114** | **CR** |  | **rev** | **1** | **Current version:** | **17.0.1** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](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:*** | Draft CR to TS 38.114: updates reflecting modifications in IEC 61000-4-3:2020 for the upper frequency range of the RI test, Rel-17 | | | | | | | | | |
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| ***Source to WG:*** | Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_newRAT-Core, TEI17 | | | | |  | ***Date:*** | | | 2022-08-10 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Recently, the IEC 61000-4-3 specification has been updated (from IEC 61000-4-3[:2006+AMD1:2007+AMD2:2010 CSV](https://webstore.iec.ch/publication/4212) to IEC 61000-4-3:2020), where one of the modifications introduced was the removal of the upper frequency limit of the RI requirements.  RAN4 EMC specifications are referring to the 61000-4-3 and reusing the upper frequency limit for the RI testing up to 6 GHz, so far.  As the removal of the 6 GHz frequency limit for the RI test was not agreed by RAN4, it is necessary to correct the reference to the IEC 61000-4-3 to refer to the right version of that specification, which still captures the 6 GHz limit for the RI requirement, i.e. IEC 61000-4-3[:2006+AMD1:2007+AMD2:2010 CSV](https://webstore.iec.ch/publication/4212) version, | | | | | | | | |
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| ***Summary of change:*** | | Correction of the IEC 61000-4-3 referenece. | | | | | | | | |
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| ***Consequences if not approved:*** | | Incorrect upper frequency limit of 6 GHz and misleading testing limitation would be kept for the RI test, not aligned with the latest version of the external IEC 61000-4-3:2020 specification. | | | | | | | | |
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| ***Clauses affected:*** | | 2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **x** |  | Other core specifications | | | | TS 38.113, TS 38.124, TS 38.175 | | |
| ***affected:*** | |  | **x** | Test specifications | | | |  | | |
| ***(show related CRs)*** | |  | **x** | O&M Specifications | | | |  | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

*------------------------------ Modified sections ------------------------------*

# 2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non‑specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

1. 3GPP TR 21.905: "Vocabulary for 3GPP Specifications"
2. 3GPP TS 38.106: "NR Repeater Radio Transmission and Reception"
3. 3GPP TS 38.115-1: "NR; Repeater conformance testing - Part 1: Conducted conformance testing"
4. 3GPP TS 38.115-2: "NR; Repeater conformance testing - Part 1: Radiated conformance testing"
5. CISPR 32: "Electromagnetic compatibility of multimedia equipment - Emission requirements".
6. IEC 61000‑6-1: "Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments".
7. IEC 61000-6-3: "Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments".
8. IEC 61000-3-2: "Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)".
9. IEC 61000-3-3: "Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection".
10. IEC 61000-3-11: "Electromagnetic compatibility (EMC) - Part 3-11: Limits – Limitation of voltage changes, voltage fluctuations and flicker in low-voltage supply systems - Equipment with rated current ≤ 75 A and subject to conditional connections".
11. IEC 61000-3-12: "Electromagnetic compatibility (EMC) - Part 3-12: Limits - Limits for harmonic currents produced by equipment connected to public low-voltage system with input current >16 A and ≤ 75 A per phase".
12. IEC 61000‑4‑2: "Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test".
13. IEC 61000‑4‑3:[2006+AMD1:2007+AMD2:2010 CSV](https://webstore.iec.ch/publication/4212): "Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test".

*------------------------------ End of modified section ------------------------------*