3GPP TSG-RAN WG4 Meeting #101-e R4-2120639

E-meeting, 1 – 12 November 2021

**Source: Nokia, Nokia Shanghai Bell**

**Title: TP to TS 38.114 – applicability overview**

**Agenda item: 8.5.4**

**Document for: Approval**

# 1 Introduction

At the RAN4#100-e meeting, a work split for TP to TS 38.114 was agreed. In this contribution, we provide the TP to TS 38.114 for Section 7 as shown below.

TS38.114 work split for next meeting (i.e. #101-e meeting) --agreed

|  |  |  |
| --- | --- | --- |
| 7 | Applicability overview | |
| 7.1 | Emission | Nokia, Nokia Shanghai Bell |
| 7.2 | Immunity | Nokia, Nokia Shanghai Bell |

Constructive comments are encouraged.

# 4 References

1. TS 38.114 (v0.0.1)

# 5 Text proposal

TS 38.114 v0.0.1 (2021-xx)

**--------------Start of text proposal-------------**

# 7 Applicability overview

## 7.1 Emission

Table 7.1-1: Emission requirements applicability

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Phenomenon | Application | Equipment test requirement | | Reference  clause in the | Reference  standard |
|  |  | NR repeater equipment | Ancillary equipment | present document |  |
| Radiated emission | Enclosure | applicable for [repeater TBD]  (Note) | not applicable | 8.2.1 | ITU-R SM.329 [x] |
| Radiated emission | Enclosure of *ancillary equipment* | not applicable | applicable | 8.2.2 | CISPR 32 [x] |
| Conducted emission | DC power input/output port | applicable | applicable | 8.3 | CISPR 32 [x] |
| Conducted emission | AC mains input/output port | applicable | applicable | 8.4 | CISPR 32 [x] |
| Conducted emission | *Telecommunication port* | applicable | applicable | 8.5 | CISPR 32 [x] |
| Harmonic current emissions | AC mains input port | applicable | applicable | 8.6 | IEC 61000-3-2 [x] or  IEC 61000-3-12 [x]  (NOTE 2) |
| Voltage fluctuations and flicker | AC mains input port | applicable | applicable | 8.7 | IEC 61000-3-3 [x] or  IEC 61000-3-11 [x]  (NOTE 2) |
| NOTE 1: Radiated emission requirements for [repeater TBD] are described in subclause 8.2.1.  NOTE 2: Selection of the reference IEC specification is based on the rated input current of the EUT’s power supply. | | | | | |

## 7.2 Immunity

Table 7.2-1: Immunity requirements applicability

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Phenomenon | Application | Equipment test requirement | | Reference | Reference |
|  |  | NR repeater equipment | Ancillary equipment | clause in the present document | standard |
| RF electro­magnetic field (80 – 6000 MHz) | Enclosure | applicable | applicable | 9.2 | IEC 61000‑4‑3 [x] |
| Electrostatic discharge | Enclosure | applicable | applicable | 9.3 | IEC 61000‑4‑2 [x] |
| Fast transients common mode | Signal, telecommunications and control ports, DC and AC power input ports | applicable | applicable | 9.4 | IEC 61000‑4‑4 [x] |
| RF common mode  0.15 - 80 MHz | Signal, telecommunications and control ports, DC and AC power input ports | applicable | applicable | 9.5 | IEC 61000‑4‑6 [x] |
| Voltage dips and interruptions | AC mains power input *port*s | applicable | applicable | 9.6 | IEC 61000‑4‑11 [x] |
| Surges, common and differential mode | AC power input *port*s and *telecommunications port* | applicable | applicable | 9.7 | IEC 61000‑4‑5 [x] |

**--------------end of text proposal-------------**