**3GPP TSG-RAN WG4 Meeting #** **96-e Draft R4-2012636**

**Electronic Meeting, 17 – 28 August, 2020**

**Source:** Ericsson

**Title:** TPs to TS on IAB EMC section 1 (Scope)

**Agenda item:** 7.4.4.1

**Document for:** Approval

# Introduction

During previous RAN4-95e meeting, it was agreed that EMC requirements for IAB will be captured in a new specification. RP-200840 [1] approved in RAN #88e reflects the agreement achieved in RAN4-95. In this contribution we are providing texts for the section 1 (Scope) in the specification.

# Discussion

3GPP has defined the EMC requirements for BS in different TS: TS 25.113 [2] (UTRA TDD and UTRA FDD BS); TS 36.113 [3] (E-UTRA BS (including NB-IoT)); TS 36.113 [4] (MSR BS); TS 37.114 [5] (AAS BS) and TS 38.113 [6] (NR). These TS shared a common structure when defining core and performance sections.

TR 38.809 [7] summarizes initial agreements on the way to handle EMC requirements for IAB. For most of the aspects related to Emission and Immunity requirements the basic agreement is to reuse NR BS requirements.

Based on the above considerations (a common structure shared by the BS EMC specs and the reuse of most of the NR BS requirements), we propose the text in the Annex to be incorporated to the TS handling the EMC requirements for IAB.

# Conclusion

Based on the discussion above, we propose to approve the following:

**Proposal 1:** To approve the proposed text (in the annex) and incorporate it to the TS handling the EMC requirements for IAB.

# References

1. RP-200840, Revised WID: Integrated Access and Backhaul for NR, RAN#88e.
2. 3GPP TS 25.113.
3. 3GPP TS 36.113.
4. 3GPP TS 37.113.
5. 3GPP TS 37.114.
6. 3GPP TS 38.113.
7. TR 38.809. 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; NR; Background for Integrated access and backhaul radio transmission and reception (Release 16).

# Annex (Text Proposals)

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

# 1 Scope

The present document covers the assessment for NR Integrated access and backhaul (IAB) node and associated ancillary equipment in respect of Electromagnetic Compatibility (EMC).

The present document specifies the applicable test conditions, performance assessment and performance criteria for NR Integrated access and backhaul (IAB) node and associated ancillary equipment.

The environment classification used in the present document refers to the residential, commercial and light industrial environment classification used in IEC 61000‑6-1 [X] and IEC 61000-6-3 [X].

The EMC requirements have been selected to ensure an adequate level of compatibility for apparatus at residential, commercial and light industrial environments. The levels, however, do not cover extreme cases which may occur in any location but with low probability of occurrence.

**--------------End of text proposal-------------**