**3GPP TSG-RAN WG4 Meeting #** **95-e R4-2008731**

**Electronic Meeting, 25 May – 5 June, 2020**

**Source:** ZTE

**Title:** TP to TR **o**n IAB EMC immunity requirement

**Agenda Item:** 6.5.4

**Document for:** Approval

# Introduction

The TR skeleton of IAB back ground has been approved in [1]. The IAB EMC immunity requirements are discussed in [2]. This TP to TR is to capture the immunity requirements part of the IAB EMC discussion.

# Discussion

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# Conclusion

The TP to TR of IAB EMC immunity requirements discussion has been provided. It is proposed to approve the following text proposal.

This is the revision of R4-2007542.

# References

1. R4-1912889 TR skeleton, Samsung
2. R4-2007539 further discussion on IAB EMC immunity requirements, ZTE

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

1. IAB EMC requirements

## 12.3 IAB EMC immunity requirements

## 12.3.1 Radiated Immunity requirements

## 12.3.1.1 On enclosure case

The IAB node is a network node with similar outside radio frequency electromagnetic environment as base station. So in this case, it is reasonable to apply base station test levels to the IAB node.

## 12.3.1.2 Different enclosure case

For different enclosure cases, the radiated immunity requirement apply for each enclosure. Still the test level as reusing the base station requirement applies as the electromagnetic environment is similar to BS.

## 12.3.1.4 Summary:

The base station requirement as 3V/m from 80MHz to 6000MHz is used as a starting point and the exclusion band for Radiated immunity test is FFS.

## 12.3.2 Other Immunity requirements

It is agreed that similar working environment as for a base station applies to an IAB node. So it is agreed to reuse the BS requirements for IAB node, for the following immunity requirements as listed below.

- ESD test

- Fast transient common mode

- RF common mode 0.15 – 80 MHz

- Voltage dips and interruption

- Surge

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