**3GPP TSG-RAN Meeting # 90-e RP-2xxx**

**Electronic Meeting, December 7-11, 2020**

**Agenda item:** 9.1.2

**Source:** Moderator (Ericsson)

**Title:** Email discussion summary for UE and BS EMC

**Document for:** Information

# Introduction

The documents intent to capture companies’ comments on the following sub-topics related to RAN4 led non-spectrum Rel-17 WIs.

* Topic #1: BS EMC objectives
* Topic #2: UE EMC objectives
* Topic # 3: General aspects e.g. WI organization/structure

# Topic #1: BS EMC objectives

## Issues related to BS EMC for discussion

* Sub-topic 1-1: BS EMC core WI objectives
* Sub-topic 1-2: BS EMC performance WI objectives
* Sub-topic 1-4: Any other issue

## Companies’ views

*Interested companies to provide comments on the sub-topics in the following sections*

### Sub-topic 1-1: BS EMC core WI objectives

1. Evaluate the amount of reduction in test configurations achieved.
2. Consolidate and Analyse the results obtained on EMC performance on different RATs for radiated and immunity testing.
3. Specify BS test configurations and capability sets (Emission and Testing) for EMC according to the results achieved in the WI.
4. Define the required adjustments in the TS 37.113 chapter 4.5 according to the outcome of the proposed WI.

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| **Company** | **Comments** |
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### Sub-topic 1-2: BS EMC performance WI objectives

1. Specify how to handle the radiated emission limits for MSR (including AAS) within an EMC-only Capability Sets and Test Configuration.
   * For BS equipment (ITU-R SM 329)
   * For Ancillary equipment (CISPR 32)
2. Specify how to handle the radiated immunity limits for MSR (including AAS) within an EMC-only Capability Sets and Test Configuration.

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### Sub-topic 1-3: Timeline e.g. TU per meeting for BS EMC

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### Sub-topic 1-4: Any other issue e.g. additional objective(s)

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## Summary of discussion on BS EMC

*Note: moderator to provide summary*

# Topic #2: UE EMC

## Issues related to UE EMC

* Sub-topic 2-1: Core WI objectives
* Sub-topic 2-2: Timeline e.g. TU per meeting
* Sub-topic 2-3: Any other issue

## Companies’ views

*Interested companies to provide comments on the sub-topics in the following sections*

### Sub-topic 2-1: Core WI objectives

1. Consider potential additional EMC requirements for NR UE supporting different features as defined in TS 38.101-1/-2/-3 and LTE UE supporting different features as defined in TS 36.101:

* emission requirements.
* immunity requirements.
* Limit the features which have been finished before Rel-17 to be considered

1. Define receiver exclusion band for UE supporting different features
2. Investigate current 3GPP UE EMC radiated emission limit:

* Whether current test frequency range is suitable, including the lower and upper test frequency range.

1. Investigate how to establish the communication link for NR and LTE UEs with different features. (Sub clause 4.2 of TS 36.124 and TS 38.124)

* Possible deltaRIB to be considered.
* Possible MSD to be considered.

1. Define proper test configurations for NR and LTE UEs. (Sub clause 8.1 and 9. of TS 36.124 and TS 38.124):

* Investigate whether current test configuration defined in RAN5 can be re-used in EMC tests.
* Investigate whether current OTA test configuration can be reused for radiated emission test.
* Investigate whether regulations have already defined test configurations and if these regulations can be reused.

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| **Company** | **Comments** |
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### Sub-topic 2-2: Timeline e.g. TU per meeting for UE EMC

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### Sub-topic 2-3: Any other issue e.g. additional objective(s)

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## Summary of discussion on UE EMC

*Note: moderator to provide summary*

# Topic #3: General

## Issues related to BS and UE EMC

* Sub-topic 3-1: WI organization/structure
* Sub-topic 3-2: Any other issue

## Companies’ views

*Interested companies to provide comments on the sub-topics in the following sections*

### Sub-topic 3-1: WI organization/structure

Question 1: Is it ok to cover both BS EMC and UE EMC under the same WI?

* Option 1: Yes
* Option 2: No

Question 2: Indicate also motivation/reason for your selected option in question 1.

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| **Company** | **Comments** |
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### Sub-topic 3-2: Any other issue

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## Summary of discussion

*Note: moderator to provide summary*