TSG-RAN Working Group 4 (Radio) meeting #97-ER4-2017489

Electronic Meeting, Nov 2nd – 13th 2020

**Source:** Ericsson

**Title:** WF on manufacturer declarations, test models and configurations including Rx FRC

**Agenda item:** 14.7

**Document for:** Approval

# Introduction

During RAN4#97-E meeting a way-forward for manufacturer declarations, test models and configurations including Rx FRC was created based on the discussion [1].

# Way-Forward

## Test configuration

During the GTW meeting, below high level agreement is reached:

**IAB-MT test configurations:**

BS test configurations are the baseline to be used for IAB-MT. For the details need to be further checked including CHBW and other parameters.

* **5 MHz ChBW needs to be replaced or removed for IAB-MT**

~~Opton2 seems ok with most companies, other options above to be discussed in GTW session.~~

~~Q1: What changes are should be done for BS test configurations to adapt them for IAB-MT~~

 ~~Option 1: No changes needed~~

 **~~Potential agreement: Option 2: 5 MHz ChBW needs to be replaced or removed.~~**

 ~~Option 3: Power allocations needs to change~~

 ~~Option 4: Some test configurations can be removed/merged~~

 ~~Option 5: Other~~

.

## Manufacturer declaration

**~~Tentative~~****~~WF:~~**

**- BS manufacturer declaration framework is taken into use also for IAB-MT, with necessary adaptations, if any**

**- Declaration set for IAB-DU and IAB-MT shall be independent, i.e. even if same information is requested for IAB-MT and IAB-DU, the declared data can be different.**

## test models

During the GTW session, below agreement is reached:

**IAB-MT test models:**

IAB-MT tests models will be introduced for UL operation, regarding the detailed parameters need to be included in Test models will be further discussed.

* We will further compare the UE test models (uplink RMC) and BS Test models to narrow down and simplify the necessary information

**Test model WF:**

**Test model design takes BS TMs as baseline (regarding the amount of specified details) and further discussion is concentrates on what, if anything, needs to be added ~~for~~ from UE test models**

## RX FRC

During the GTW session, the RX FRC is discussed and below agreement is reached:

**IAB-MT receiver testing:**

* DL FRC configured for IAB-MT receiver testing and IAB-MT performance testing FRC definition need to be aligned.

Additionally, the linkage to with demodulation testing was discussed and following agreement was reached:

Co-ordinate the decisions on IAB demod and IAB RF testing to the extent necessary to ensure that the approach to testing is consistent

The difference between the UE RMC and BS FRC is the TDD pattern. BS FRC does not specify the specific TDD pattern. The FRC used for RF testing should be aligned with performance testing FRC definition principle.

**~~Tentative~~ WF:** FFS whether BS approach can be applied or not

BS approach: Include TDD pattern in the conformance spec, and Rx FRC definition is per slot basis without scheduling on special slots, meanwhile during test, the applied TDD pattern for testing is BS declaration basis and the requirements agnostic to TDD pattern and Duplex modes (For information)

UE approach: Include TDD pattern with special slot scheduling into Rx RMC, the receiver requirements/conformance testing are specified based on the configured TDD pattern. (For information)

# References

1. R4-2017407 Email discussion summary for [97e][309] NR\_IAB\_Conformance\_Part1, Nokia