**3GPP TSG-RAN WG4 Meeting # 98-bis-e draftR4-2115719**

**Electronic Meeting, 12th – 20th April 2021**

**Agenda item:** 6.1.2.6.1

**Source:** Nokia, Nokia Shanghai Bell, …

**Title:** WF on Rel-16 NR IAB demodulation requirements

**Document for:** Approval

# Background

* The following WFs were approved previously
	+ R4-2012644, WF on Rel-16 NR IAB demodulation requirements, RAN4#96-e.
	+ R4-2017673, WF on Rel-16 NR IAB demodulation requirements, RAN4#97-e.
	+ R4-2103994, WF on Rel-16 NR IAB demodulation requirements, RAN4#98-e.
	+ R4-2106172, WF on Rel-16 NR IAB demodulation requirements, RAN4#98-bis-e.
	+ R4-2108589, WF on Rel-16 NR IAB demodulation requirements, RAN4#99-e.
* Corresponding Email summary in RAN4#100-e
	+ R4-2115794 Email discussion summary for [100-e][322] NR\_IAB\_Demod\_Maintenance.

# WF on topic#1: General

## 5MHz CBW

Issue 1-1-1: Removal of requirements with 5MHz CBW

Agreement:
Remove 5MHz CBW IAB-DU demodulation performance requirements, when there are other requirements available for 15kHz SCS.

## Other

Issue 1-2-1 (new): Treatment of singular “applicability of requirements” section in TS 38.174

Agreement:
Clause 11.2.3.2.1.1 with Applicability of requirements for IAB-MT CSI reporting radiated shall be voided.

# WF on topic#2: IAB-MT

## Test setup for CSI reporting

Issue 2-1-1: Test setup figure in test specifications

Agreement:
The following figure with synchronization source box and connecting lines as dashed.

transceiver unit array

 #1

 #2

 #K

transceiver array boundary

Transceiver array boundary connector TAB(n)

Load

AWGN Generator

AWGN GeneratorAWGN Generator

IAB tester

Feedback

Synchronization source (if used, see NOTE 2)

Issue 2-1-2: Synchronisation NOTE 2 text

GtW Agreement:
RAN4 to add the synchronisation note as per prior agreement with the following change:
“In tests performed with signal generators, a synchronization signal may be provided between the IAB node and the signal generator, or a common (e.g., GNSS) source may be provided to both IAB node and the signal generator, to enable correct timing of the wanted signal. The method of synchronization with the TE is left to test implementation.”

## Test applicability with respect to capabilities/features

Issue 2-2-1: Include UE/MT capability signalling in manufacturer’s declaration table (TS 38.176-1/2 section 4.6)

GtW Agreement: Yes, include.

Issue 2-2-2: Include declaration of PMI/RI testing in manufacturer’s declaration table (TS 38.176-1/2 section 4.6)

GtW Agreement: No, don’t include.

Issue 2-2-3: Include the “Requirements applicability” tables from the UE test specs to the MT test specs. Replace “FDD” with “TDD”.

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Agreement:
Include the “Requirements applicability” tables from the UE test specs to the MT test specs, using text instead of table, in a “Applicability of requirements for IAB-MT features” section under the general applicably rule section.
Add note to applicability section: “Applicability information may be obtained based on vendor declaration (Section 4.6) or alternatively from reading capability signaling.”
In references to manufacturing declarations in this section, have the reference first and place the capability IE name after.

Issue 2-2-4: Include statement on optionality of RI/PMI testing in “applicability of requirements” sections

GtW Agreement: Yes, include.