**3GPP TSG-RAN WG4 #96-e R4-2012563**

Online, August 17th – August 28th 2020

**Title:** Draft LS to RAN2 on IAB-MT feature list

**Release:** Rel-16

**Work Item:** NR\_IAB-Core

**Source:** TSG RAN WG4

**To:** TSG RAN WG2

**Contact Person:**

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# 1 Overall description

RAN4 has further discussed the support of Rel.15 UE features by the IAB-MT. RAN4 would like to inform RAN2 about the following agreements and seek feedback on the following issues.

Agreements:

 Feature 2-8(Power class): not applicable to the IAB-MT.

 Feature 2-11(Modified MPR behaviour): not applicable to the IAB-MT

 Features 3-1 (Independent measurement gap configurations for FR1 and FR2), 3-2(Simultaneous reception of data and SS block with different numerologies) and 3-3(Short measurement gap): optional

 Features related to EN-DC, CA and SUL are postponed until the requirements and support framework becomes clear. Please note RAN4 also agreed that CA should be supported in Rel-16 even though there is no decision on the relevant IAB-MT features.

 Feature 2-12 ~~1-3~~ (Multiple NS/P-max) is TBD pending RAN2 feedback.

RAN4 would also like to ask RAN2 for feedback on the following issues:

For feature 2-8, is there any impact to the RAN2 design/signaling if this feature is not applicable? Please note that the Tx output power capabilities of wide area IAB-MT and local area IAB-MT are ~~declared differently.~~different based on declaration basis.

For feature ~~1-3~~ 2-12, RAN4’s understanding is that the IAB-MT ~~UE~~ needs to understand at least one of the NS values advertised by the parent gNB in order to perform initial access and not bar the cell. If this is indeed the case, RAN4 would like to ask RAN2 if the initial access procedure can be modified for IAB-MT such that the IAB-MT can ignore the advertised NS values. Because the IAB-MT is fixed~~not physically mobile~~ in Rel-16, the regulatory requirements imposed by the advertised NS values would be already known by the IAB-MT, and hence, the NS signaling is not needed. RAN4 also thinks IAB-MT may ignore the P-max for the commercial UE considering the different deployment scenarios.

# 2 Actions

Actions to RAN 2:

RAN4 respectfully asks RAN2 to take the above agreement into account and kindly provide feedback on the questions asked.

# 3 Date of Next RAN4 Meetings:

RAN4 Meeting #97e 26 October – 13 November 2020 E-meeting

RAN4 Meeting #98 March 1st – March 5th 2020 Athens, Greece