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3GPP TSG RAN Meeting #101 RP-231807

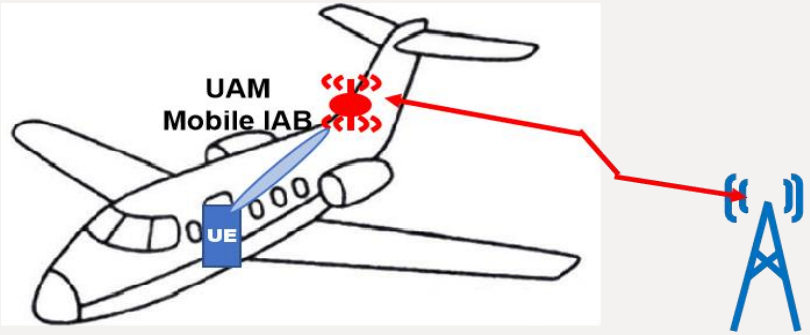
Bangalore, India, September 11th – 15th , 2023

Agenda Item:	8A.2.14.1
Source:	vivo
Title:	Rel-19 IAB (RAN3- led)
Document for:	Discussion

IAB-MT/UAM support

- **Background:**
  - IAB-MT may not support Rel-18 UAV feature and, then, network may not be able to properly manage IAB-node on UAM.
  - Aerial channel characteristic may create unwanted neighbor relationship among cells to alter comparing to one on the ground. Thus, NRT will be distorted by wrong neighbor cell report by legacy device in the air due to different channel characteristics.

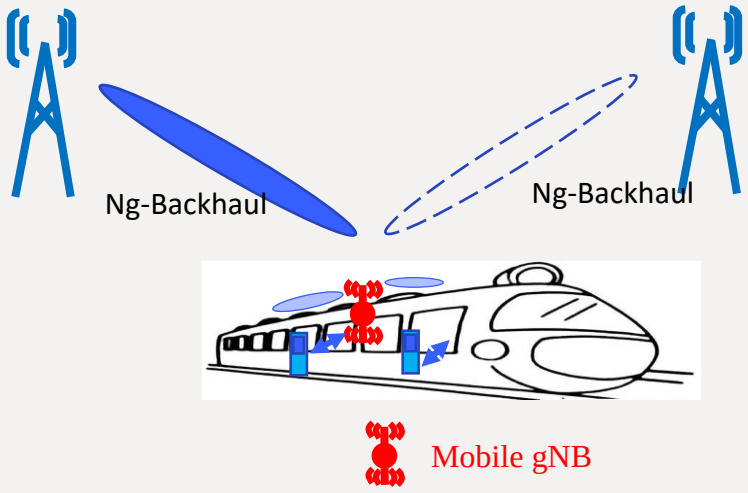
- **Proposal 1: Discuss mIAB-MT to address IAB-node support with UAV features**



Mobile gNB support

- **Background:**
  - Current specification just support moving IAB, but does not support mobile gNB functionalities
  - Some mobile gNB backhauling enhancements may be consi dered such as: IP address continuity for backhauling of N2, N3, N4.

- **Proposal 2: Discuss to IAB topology enhancement to support mIAB with integrated CU and NG backhauling.**



Potential objective for Rel-19

WID(RAN2: TU TBD, RAN3: 1TU)

Objectives: To specify IAB/UAM enhancement in Rel-19:

- Mechanism for IAB-node MT support with UAV features [RAN3, TBD: RAN2]
- Mechanism to support Enhancements for RAN node to support moving gNB [RAN3]
  - Authorization function CN
  - Support for dynamic neighbor relations between RAN nodes for support of Xn functionality and SON.
  - IP address continuity for backhauling

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THANK YOU.
谢谢。