**3GPP TSG-RAN WG2 Meeting #128 DRAFTR2-24010967**

**Orlando, USA, 18 – 22 November 2024**

**Title:** LS on inter-gNB RACH-less HO in NTN

**Response to:** -

**Release:** Release 18

**Work Item:** NR\_NTN\_enh-Core

**Source:** TSG RAN WG2

**To:** TSG RAN WG3

**Cc:** TSG RAN WG1

**Contact Person:**

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**Attachments:** -

**1. Overall Description:**

At RAN2#128 it has been discussed whether RACH-less handover (described in 9.2.3.6 of TS 38.300) can be also supported in inter-gNB scenario in NTN. Based on the analysis provided in several TDocs (e.g. R2-2410527 or R2-24010438) RAN2 has assumed that in NTN RACH-less handover can be supported for intra/inter-satellite handover with same gateway/gNB and intra/inter-satellite handover with gateway/gNB switch. However, RAN2 would like to confirm with RAN3 that the conclusion made at RAN2#128 meeting for inter-gNB scenario in NTN is feasible from RAN3 point of view.

**2. Actions:**

**To TSG RAN WG3.**

**ACTION:** RAN2 respectfully asks for RAN3 feedback on any potential issue if RACH-less handover in inter-gNB NTN scenario is supported.

**3. Date of Next TSG-RAN WG2 Meetings:**

RAN2#129 from 2025-02-17 to 2025-02-21 Athens, GR

RAN2#129-bis from 2025-04-07 to 2025-04-11 China, CN