**3GPP TSG RAN WG2#119bis electronic R2-22xxxxx**

**Online, 10th-19th October, 2022**

Title: DRAFT LS on RACH-less handover

Response to: -

Release: Release 18

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

Source: OPPO (to be RAN2)

To: RAN1

Cc: RAN4

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Attachments: None

**1. Overall Description:**

For mobility enhancement in Rel-18 NR NTN, RAN2 has discussed RACH-less handover. RAN2 would like to check with RAN1 in which of the following listed scenarios RACH-less handover is possible.

1. Intra-satellite handover with the same feeder link. i.e., with same gateway/gNB
2. Intra-satellite handover with different feeder links, i.e., with gateway/gNB switch
3. Inter-satellite handover with different feeder links, i.e., with gateway/gNB switch
4. Inter-satellite handover with same gateway/gNB

**2. Actions:**

**To** **RAN1**

**ACTION:** RAN2 respectively asks RAN1 to provide response to the above question.

**3. Date of Next RAN2 Meetings:**

TSG-RAN WG2#120 2022-11-14 to 2022-11-18 Toulouse, FR

TSG-RAN WG2#121 2023-02-27 to 2023-03-03 Athens, GR