**3GPP TSG RAN WG2#122 R2-2306666**

**Incheon, Korea, 22th – 26th May, 2023**

Title: DRAFT LS on common signaling in (C)HO

Response to: -

Release: Release 18

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

Source: OPPO (to be RAN2)

To: RAN3

Cc:

**Contact Person:**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** **mailto:3GPPLiaison@etsi.org**

Attachments: None

**1. Overall Description:**

For mobility enhancement in Rel-18 NR NTN, RAN2 has discussed the solution for source cell to broadcast in advance *servingCellConfigCommon* from the target cell (as common (C)HO signalling) in order to reduce signalling overhead of handover command which is sent using dedicated (per UE) signalling. In this way, the target´s cell *servingCellConfigCommon* does not need to be included in each *RRCReconfiguration* message. During RAN2’s discussion, it was indicated this might have RAN3 impact, e.g., for the inter-gNB handover case, the target cell’s *servingCellConfigCommon* might need to be transferred to the source cell using different means than what’s available in the legacy specification. To facilitate RAN2’s future work, RAN2 would like to ask RAN3 to answer the following question.

In case target cell’s *servingCellConfigCommon* needs to be broadcasted in the source cell, whether it is feasible that the target cell’s *servingCellConfigCommon* is provided independently to the source cell for the purpose of inter-gNB handover in Rel-18 with or without specification changes? RAN2 kindly asks RAN3 to confirm whether the potential changes (if any) fit within Release 18 timeframe.

**2. Actions:**

**To** **RAN3**

**ACTION:** RAN2 respectfully asks RAN3 to provide answer to the above question and other related feedback, if any.

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

3GPP RAN2#123 21 - 25 August 2023 Toulouse, FR

3GPP RAN2#123-bis 09 - 13 October 2023 Xiamen, CN