**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:**

Name: Haitao Li

E-mail Address: lihaitao at oppo dot com

**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 considered 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) signaling. During RAN2’s discussion, it was indicated this may 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 available in the legacy specification. To facilitate RAN2’s future work, RAN2 would like to ask RAN3 to answer the following questions.

Question-1: In case target cell’s *servingCellConfigCommon* needs to be broadcasted in the source cell, whether it is feasible that the target cell’s *servingCellConfigCommon* and its updated version is provided (e.g. by OAM or network implementation without RAN3 standard impacts, or by specified solution) to the source cell in the inter-gNB handover case in Rel-18?

Question-2: If Question-1 is confirmed as feasible, is it possible that it can be supported without any RAN3’s standard impact (e.g. via OAM)? If not possible, can RAN3 make the corresponding changes in Rel-18 specification, if RAN2 agrees to support such scheme?

**2. Actions:**

**To** **RAN3**

**ACTION:** RAN2 respectfully asks RAN3 to provide response to the above questions.

**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