**3GPP TSG RAN WG2 #121bis-e R2-23xxxxx**

**Online, 17-26, April 2023**

**Title: Draft LS to RAN1 on RAT-dependent positioning integrity**

**Response to:**

**Release:** **Rel-18**

**Work Item: NR\_pos\_enh2**

**Source: OPPO (to be RAN2)**

**To: RAN1**

**Cc: RAN3**

**Contact Person:**

#### Name: Yang Liu

#### E-mail Address: liuyangbj@oppo.com

**Attachments:** none

**1. Overall Description:**

During the RAN2#121-bis-e meeting on RAT-dependent positioning integrity, RAN2 has concluded on the following working assumption on LMF-based RAT-dependent integrity:

RAN2 would like to kindly request RAN1 to confirm whether they have any concern on the above working assumption. In addition, RAN2 also has two questions that RAN2 would like to consult with RAN1:

Q1: Are beam-related information (Beam Bore-Sight Direction and Beam Antenna Information) error sources for DL-AOD positioning? If yes, Could RAN1 please also provide the parameters (e.g., mean and standard deviation, etc.) for the Gaussian distribution of these two error sources?

Q2: Are DNU flag(s) for TRP/UE positioning measurements needed or not?

**2. Actions**

**To RAN1**

**ACTION:** RAN2 respectfully asks RAN1 to provide the feedback on the two questions and indicate whether they have any concern on the working assumption.

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

TSG RAN WG2 Meeting #122 22 – 26 May Incheon, KR

TSG RAN WG2 Meeting #123 21 – 25 August Toulouse, FR