**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:**

**Contact Person:**

#### Name: Yang Liu

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**Attachments:** none

**1. Overall Description:**

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

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

Q1: Whether the beam-related information (Beam Bore-Sight Direction and Beam Antenna Information) are 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: Whether DNU flag(s) for TRP/UE positioning measurements is needed or not if the above working assumption does not hold?

**2. Actions**

**To RAN1 groups**

**ACTION:** RAN2 respectfully asks RAN1 to provide the feedback on the two questions and 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