**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 figures out two questions which should be consulted with RAN1, and one working assumption which may raise concern should be informed also, as indicated as follows:

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 for the Gaussian distribution of these two error sources?

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

Working assumption:

It is left to LMF implementation to decide the measurement error source bound distribution based on the measurement results from UE and/or NG-RAN

Agreement:

Indicate the WA above in the LS to RAN1 to allow them to register any concern.

RAN2 would like to invite RAN1 to answer the two questions and confirm if there is any concern on the working assumption made.

**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