**3GPP TSG-RAN WG2 Meeting #126 R2-240xxxx**

**Fukuoka, Japan, 20 – 24 May 2024**

**Title: [DRAFT]** LS on multi-modality awareness at RAN

**Response to:** -

**Release:** Release 18

**Work Item:** NR\_XR\_Ph3-Core

**Source:** Nokia [TSG RAN WG2]

**To:** TSG SA WG2

**Cc:**

**Contact Person:**

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**Attachments:** -

**1. Overall Description:**

As part of the Rel-19 work on XR, RAN2 has been discussing if there are any benefits or need of RAN enhancement for the support of multi-modal traffic~~. While some companies believe that relying on the application layer is enough and that the potential gains from RAN enhancement remain unclear, a majority of companies believe that RAN enhancements may be beneficial.~~ and RAN2 agreed that RAN awareness of multi-modality is to be supported in Rel-19 for both UL and DL.

RAN2 is considering to use the multi-modality awareness (e.g. MMSID and synchronization thresholds) for coordinated handling of multi-modal flows to improve RAN capacity and/or to achieve power saving gains for multi-modal flows by ensuring that the multi-modal dependencies and synchronization requirements, if any, are respected.

RAN2 would like to know whether and what multi-modal information can be provided to RAN for both uplink and downlink.

**2. Actions:**

**To SA2.**

**ACTION:** RAN2 respectfully asks SA2 to answer whether and what multi-modal information for UL and DL can be provided to RAN, if any, to achieve coordinated handling of multi-modal flows in RAN as noted above.

**3. Date of Next TSG-RAN WG2 Meeting:**

RAN2#127 from 2024-08-19 to 2024-08-23 Maastricht, NL

RAN2#127bis from 2024-10-14 to 2024-10-18 China, TBC