**3GPP TSG-RAN WG2 Meeting #127bis R2-24xxxxx**

**Hefei, China, Oct 14~18, 2024**

**Title: [Draft] Reply to SA2 LS on multi-modality awareness**

**Response to: S2-2409444**

**Release: Rel-19**

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

**Source: Huawei, Hisilicon (to be RAN2)**

**To: SA2, RAN3, SA4**

**Cc:**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** mailto:3GPPLiaison@etsi.org

**Attachments:** **-**

**1. Overall Description:**

RAN2 thanks SA2 for the feedback on multi-modality awareness.

For the usage of multi-modality information, RAN2 has discussed and reached the following agreements during the previous RAN2 meetings.

First, RAN2 agreed that the multi-modality information (e.g., MMSID), can be used for joint admission control and QoS flow to DRB mapping.

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| * RAN2 considers that based on multi-modal information:
* **The gNB may perform joint admission control. Details can be left up to RAN3 in potential WI phase.**
* **The gNB may consider this information during QoS flow to DRB mapping (up to gNB implementation)**
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Furthermore, RAN2 also agreed that traffic synchronization may be achieved by packet level synchronization information, if it can be provided from CN to RAN, which is up to SA2/4 to discuss.

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| * For DL, whether traffic synchronization (on a per packet basis) can be achieved depends on whether packet level synchronization information can be provided from CN to RAN.
* RAN2 thinks PDU Set discard across QoS flows of the same multi-modal service based on the dependency information between the mutli-modal flows can only be achieved in case the synchronization information can be available at the UE which is up to SA2/SA4.
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**2. Actions:**

**To SA2, SA4:**

**ACTION:** RAN2 kindly asks SA2 to take the above feedback on multi-modality awareness into consideration.

**TO RAN3, SA4:**

**ACTION**: According to the request from SA2, RAN2 would kindly asks RAN3 and SA4 to review the RAN2 feedback above.

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

RAN2#128 18th Nov – 22nd Nov 2024 Orlando, US

RAN2#129 17th Feb – 21st Feb 2025 Athens, Greece