**3GPP TSG-RAN WG2 Meeting #128 *DRAFT*\_R2-24xxxxx**

**Orlando, USA, Nov. 18th – 22nd, 2024**

**Title:** LS on Satellite IDs for store-and-forward operation

**Response to:** -

**Release:** Rel-19

**Work Item:** IoT\_NTN\_Ph3-Core

**Source:** RAN2

**To:** SA2

**Cc:** -

**Contact person:** Xiao XIAO

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

**Attachments:** -

1 Overall description

RAN2 discussed how an IoT NTN UE capable of store-and-forward operation uses the MME-configured satellite ID list in the access stratum, and achieved the following understanding:

* Understanding 1: the UE configured with a satellite ID list by MME is not prevented to camp on a satellite operating in normal IoT NTN mode (i.e. with feeder-link connection), and perform subsequent access and data/signalling communication with that satellite.
* Understanding 2: the UE configured with a satellite ID list by MME is not prevented to camp on, attempt to access to and communicate with a satellite which is not included in the MME-configured satellite list.

RAN2 would like request SA2 to provide feedback on whether above Understanding 2 is correct.

Also, RAN2 would like to respectfully ask below question to SA2:

Question: What does it mean if a satellite is included in the satellite list configured by the MME to a UE, e.g. whether it means:

1. the satellite has the UE context but does not necessarily support store-and-forward operation, or
2. the satellite has the UE context and must support S&F mode (but may be currently operating in normal IoT NTN mode or in store-and-forward mode)?

Note that with above “e.g.”, RAN2 does not imply that the answer has to be exactly the same as one of the examples listed above.

2 Actions

**To SA2**

**ACTION:** RAN2 respectfully asks SA2 to provide feedback on whether above Understanding 2 is correct and provide answer to the Question above.

3 Dates of next TSG RAN WG2 meetings

TSG RAN WG2 Meeting #129 2025-02-17 - 2025-02-21 Athens, GR

TSG RAN WG2 Meeting #129bis 2025-04-07 - 2025-04-11 TBD, CN