**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 concluded 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 to request SA2 to provide feedback on whether above Understanding 2 can be confirmed.

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

Question: If a satellite is included in the satellite list signalled by the MME to a UE, does it mean one of the below options(s):

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 store-and-forward mode (but may be operating in normal IoT NTN mode or in store-and-forward mode when the satellite serves the area where the UE is located)?

Alternative

Question : RAN2 understands that if satellite is included in the satellite list the satellite has the UE context. However whether does it also mean one of the following option on the support of store-forward operation :

1. The satellite does not necessarily support store-forward operation
2. The satellite must support store-forward operation

Other options are not precluded for the Question above (pending SA2 decision).

2 Actions

**To SA2**

**ACTION:** RAN2 respectfully asks SA2 to provide feedback on whether above Understanding 2 can be confirmed and provide an 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