**3GPP TSG-RAN WG2 Meeting #123bis *R2-2311326***

**Xiamen, China, 9th – 13th October 2023**

**Title: LS on UE Location Information for NB-IoT NTN**

**Release: Rel-18**

**Work Item: IoT\_NTN\_enh**

**Source: RAN2**

**To: CT1, SA2**

**Cc: RAN3**

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# 1 Overall description

RAN2 rediscussed whether and how coarse location, i.e., with the granularity of a terrestrial cell size, reporting for an NB-IoT UE in NTN can be supported in case LPP mechanism is not supported

No consensus could be reached in RAN2 as to whether an AS-based solution of reporting UE coarse location for NB-IoT UEs using control plane optimization could be supported, due to privacy and security concerns raised by some companies.

RAN2 would thus like to ask SA2 and CT1 if UE location reporting via NAS message can be considered in Rel-18, to satisfy this operator requirement.

# 2 Actions

**To CT1**

**ACTION:** RAN2 asks SA2 and CT1 to take the above into account, to confirm the feasibility and, if feasible, to study and specify a NAS layer based solution for an NB-IoT UE in NTN to report its location to the network as early as possible.

# 3 Dates of next TSG RAN WG2 meetings

RAN2#124 13th – 17th November 2023 F2F meeting

RAN2#125 26th February – 1st March 2024 F2F meeting