**3GPP TSG-RAN WG4 Meeting #111 R4-240xxxx**

Fukuoka City, Fukuoka, Japan, 20 – 24 May, 2024

**Title:** **Reply LS on reference point for SSB-TimeOffset**

**Response to:** **R2-2403771**

**Release:** **Rel-18**

**Work Item:** **NR\_NTN\_enh-Core**

**Source:** **RAN WG4**

**To:** **RAN WG2**

**Cc: RAN WG1**

**Contact Person:**

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

**Attachments: N/A**

1. Overall Description:

RAN4 would like to thank RAN2 for the LS on reference point for SSB-TimeOffset. After discussion in RAN4#111 meeting, following agreement have been achieved:

RAN4 confirms that it is feasible to adopt the gNB as the reference point of ssb-TimeOffset for both soft and hard satellite switch without PCI change scenarios.

However, no technical issue has been identified to use the UL reference point as the reference point of ssb-TimeOffset for both soft and hard satellite switch without PCI change scenarios as well, as defined in the latest version of TS 38.331.

2. Actions:

**To RAN WG2 group.**

**ACTION: RAN4 kindly requests RAN2 to take the above agreement into consideration for future work.**

3. Date of Next TSG-RAN WG4 Meetings:

TSG RAN WG4 Meeting #112 19 – 23 Aug 2024 Maastricht, Netherland

TSG RAN WG4 Meeting #112bis 14 – 18 Oct 2024 China