**3GPP TSG-RAN WG2 Meeting #131 *R2-2506290***

**Bengaluru, India, 25th - 29thAugust 2025**

**Title: [Draft] Reply LS on SMTC enhancements**

**Response to:**

**Release: Release 19**

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

**Source: Xiaomi ( To be RAN2)**

**To: RAN4**

**Cc:**

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

**Attachments: None**

# Overall description

For downlink coverage enhancement, RAN2 further made the following agreements related to SMTC enhancement:

* The maximum number configured SMTCs for idle/inactive is 7 and it also includes the SMTC of the serving cell (This updates a previous decision to have a maximum of 6 STMCs).
* RAN2 reconfirms the understanding that if the NW configures more than 4 STMCs the UE in idle/inactive the UE selects up to 4 STMCs (or less, depending on the UE capability) based on location and only considers them for measurements.
* RAN2 supports to configure two different SMTC periodicities (with different offsets) for SMTCs per frequency layer for idle/inactive/connected mode, and UE capability will be introduced for this purpose (FFS if per UE or per band). If RAN4 cannot finish the corresponding RRM requirement design, we can introduce some statement in the specs in the future to limit the configuration to one periodicity only.

RAN2 kindly request RAN4 to take above agreement into account when designing RAN4 RRM requirement for SMTC enhancement and provide feedback if needed.

# Actions

**To RAN4:**

**ACTION:** RAN2 kindly asks RAN4 to take above agreements into account and provide feedback if needed.

# Dates of the next TSG RAN WG2 meetings

TSG RAN2 Meeting #131bis 13th – 17rd Oct, 2025 Prague, CZ

TSG RAN2 Meeting #132 17th – 21st Nov, 2025 Dallas, US