3GPP TSG-RAN WG4 Meeting # 108bis R4-2317307

Xiamen, China, October 09 – October 13, 2023

**Title:** LS on SSB-less operation for Rel-18 NES

**Response to:** -

**Release:** Rel-18

**Work Item:** Netw\_Energy\_NR-Core

**Source:** RAN WG4

**To:** RAN WG2

**Cc:** RAN WG1

**Contact Person:**

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**Attachments:**

**1. Overall Description:**

Under the release 18 work item on network energy saving, to enable SSB-less SCell operation, RAN4 agrees to introduce indication from NW to UE to indicate which cell (e.g., PCI, SSB frequency, etc.) is the reference cell. RAN4 will define “by default cell” as reference cell if the indication is not provided, The reference cell means it is the timing reference and AGC source of SSB-less SCell. If the reference cell is an SCell or PSCell, it should be an activated SCell or activated PSCell. The details of the signalling are up to RAN2. .

RAN4 also has agreement on SSB-less SCell. If the UE is not provided with SSB configuration (absoluteFrequencySSB) in the SCell (FrequencyInfoDL) nor SMTC configuration for the SCell, this cell is regarded as SSB-less SCell.

**2. To RAN WG2 group.**

**ACTION:** RAN4 respectfully ask RAN2 to take the above agreements into account and design corresponding signaling.

**3. Date of Next TSG-RAN WG4 Meetings:**

TSG-RAN4 Meeting #109 Nov. 13 – Nov. 17, 2023 Chicago, US

TSG-RAN4 Meeting #110 Feb. 26 – Mar. 3, 2024 Athens, GR