**3GPP TSG RAN WG1 #120 R1-250xxxx**

**Athens, Greece, February 17th – 21st, 2025**

**Title: [**Draft] LS on the wake-up delay for LP-WUS operation in IDLE/INACTIVE mode

**Response to:**

**Release:** Rel-19

**Work Item:** NR\_LPWUS

**Source: [**Moderator (Apple)]

**To:** RAN4

**Cc:**

**Contact person:** Sigen Ye, sigen\_ye@apple.com

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

**Attachments:**

# 1 Overall description

In RAN1, the following agreement was made on the UE capability report on the wake-up delay for LP-WUS operation in IDLE/INACTIVE mode:

**Agreement**

For UE capability report on the wake-up delay:

* Alt 1: For the 3 candidate values for the wake-up delay capability report, support {[70ms], [500ms] and [900ms]}.
  + The reported values assume SSB periodicity of 20ms, where [70ms] assumes [3] SSBs needed for synchronization, [500ms] and [900ms] assume [5] SSBs needed for synchronization.
  + FFS: translation of wake-up delay for different SSB periodicities
  + FFS: different sets of 3 candidate value for different SSB periodicities

Note that the definition of wake-up delay is the minimum gap time between LP-WUS reception and MR to start PDCCH monitoring.

RAN1 respectfully asks RAN4 to check and confirm if the number of SSBs assumed is appropriate for the MR synchronization.

# 2 Actions

**To RAN2 and RAN4:**

**ACTION:** RAN1 respectfully asks RAN4 to check and confirm if the number of SSBs assumed is appropriate for the MR synchronization.

# 3 Dates of next TSG-RAN WG1 meetings

TSG-RAN WG1 Meeting #120bis 07 - 11 April 2025 Wuhan, China

TSG-RAN WG1 Meeting #121 19 - 23 May 2025 Malta