**3GPP TSG-RAN WG4 Meeting #113 R4-xxxxxx**

**Orlando, USA 18th – 22nd November 2024**

**Title:** DRAFT Reply LS on LP-WUS operation in IDLE/INACTIVE mode

**Response to:** R1-2407559

**Release:** Rel-19

**Work Item:** NR\_LPWUS-Core

**Source:** Vodafone [to be RAN4]

**To:** RAN Plenary, RAN1

**Cc:** RAN2

**Contact person:** Diogo Martins, diogo.martins@vodafone.com

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

**Attachments:** None

1 Overall description

RAN4 thanks RAN1 for their LS on R4-2414909/R1-2407559 and would like to provide the following answer:

**Question:**

“In RAN1, the common understanding is that UE may not support LP-WUS reception on all the bands supported by the UE.

RAN1 respectfully asks RAN2 and RAN4 to check if there is any issue and specification support needed for IDLE/INACTIVE UEs.”

**Answer:**

RAN4 would like to thank RAN1 for the LS on LP-WUS operation in IDLE/INACTIVE mode. RAN4 had a discussion on the understanding shared in the RAN1 LS, and the following observations have been made:

From RAN4 RF perspective it was agreed that there is no specific work related to RAN1 LS.

From Rel-19 RAN4 RRM requirement of MR offloading and relaxation perspective, RAN4 assumed LR and MR are operating on the same carrier frequency. ~~It was also concluded that LR measurement requirements depends only on LR band.~~ It is feasible for LR to conduct LP-WUS monitoring on LR operating bands, but it is unclear how to achieve the power savings if LR and MR operate in different bands. Without significant power savings, the motivation of LP-WUR is not clear.

2 Actions

**To RAN Plenary and RAN 1:**

**ACTION:** RAN4 kindly asks RAN Plenary and RAN 1 to take the information above into account once deciding on the support of the use case mentioned above.

3 Dates of next TSG RAN WG 4 meetings

TSG-RAN WG4 Meeting #114 17th – 21st February 2025 Athens, Greece

TSG-RAN WG4 Meeting #114-bis 7th – 11th April 2025 TBC, China