3GPP TSG RAN WG2 Meeting 129Bis R2-25xxxxx

Wuhan, China, 7 - 11 April, 2025

**Title:** Draft LS on LP-WUS in RRC\_CONNECTED

**Response to:** -

**Release:** Rel-19

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

**Source:** InterDigital (to be RAN WG2)

**To:** RAN WG1, RAN WG4

**Cc:** -

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**Attachments:** -

# 1 Overall description

## 1.1 Short DRX

RAN2 discussed the Short DRX cycle applicability with LP-WUS in RRC\_CONNECTED mode and made the following agreement and a working assumption:

**For Option 1-1, the UE does not monitor LP-WUS when Short DRX cycle is used.**

**Working assumption: For option 1-2, it is up to network configuring short DRX cycle with LP-WUS. The UE monitors LP-WUS outside the Active Time regardless of if Short DRX cycle or Long DRX cycle is used.**

## 1.2 LP-WUS monitoring

RAN2 discussed whether there are any scenarios on when the UE would not be able to monitor LP-WUS and made the following working assumption:

**Working assumption for the case of potential collision (if any): In Option 1-1, when the UE is not able to monitor the LP-WUS occasion(s) the UE should start the drx-OnDurationTimer (as if LP-WUS was detected). FFS for Option 1-2.**

Based on this working assumption, RAN2 would like to ask RAN1:

1. Whether there are any cases/scenarios on when the UE is not able to monitor LP-WUS?

* RAN2 would like to note that for DCP, such cases/scenarios included collision with Active Time, measurement gap, interruption caused by BWP switching, and RAR window monitoring for BFR.

2. Is there any case when the UE is not able to monitor LR and MR simultaneously?

## 1.3 UE time offset preference

RAN2 also discussed and agreed the following:

**If configured, the UE can signal a preferred time offset via UAI signalling.**

RAN2 would like to know whether there were any further conclusions in RAN1 on what information the preferred time offset via UAI should provide (e.g. in relation to the minimum time offset provided as a UE capability)?

# 2 Actions

**To RAN WG1**

**ACTION:** RAN2 respectfully asks RAN1 to take the above agreements and working assumptions into account and provide feedback, if any; and provide responses to the questions asked.

**To RAN WG4**

**ACTION:** RAN2 respectfully asks RAN4 to take the above working assumption under section 1.2 into account and provide feedback, if any.

# 3 Dates of next TSG RAN WG2 meetings

RAN2#130 2025-05-19 – 2025-05-23 Malta, Malta

RAN2#131 2025-08-25 – 2025-08-29 Bengaluru, India