**3GPP TSG RAN WG2 Meeting #129 R2-250xxxx  
, , 7th - 11th April 2025**

**Agenda item: 8.4.1**

**Source: Apple**

**Title: Collection of comments to 38.321 CR for LP-WUS**

**WID/SID: NR\_LPWUS-Core – Release 19**

**Document for: Discussion and Decision**

# 1 Introduction

This is a summary document on collection of comments to TS 38.321 CR for LP-WUS during below running CR discussion:

* [Post129][210][LPWUS] Running CR for TS 38.321 (Apple)

Intended outcome: Running CR for submission to the next meeting

Deadline: Long

# 2 Collection of comments

Please provide your comments in below table, and Rapporteur will response. Please do not insert any comments in running CR directly, which is hard for Rapporteur to follow all comments.

And based on existing EN and your comments, Rapporteur will identify stage 3 open issues.

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| **Company** | **Detailed comments** | **Rapporteur response** |
| NEC | LP-WUS Low-Power Wake-Up Signal  **Comment-1: seems like different spec use different term, e.g., in TS 38.304 running CR, it is Low Power-Wake Up Signal, need to align in the end.**  - lpwus\_PDCCHMonitoringTimer (Optional): the duration after the LP-WUS occasion in which a LP-WUS indicates the UE's PDCCH monitoring activity for the MAC entity.  **Comment-2: for the name definition, RAN2 has not decided yet. In our understanding, the definition of active time is broader than that of PDCCH timer (e.g., CSI reporting can be done in active time including this new timer I believe). Therefore we prefer to name it as *drx-onDurationTimer-LPWUS* (e.g., just referred from MBS).**  1> if LP-WUS monitoring is configured and no DRX group is in Active Time:  <omit>  4> if all LP-WUS monitoring occasion(s) in time domain, as specified in TS 38.213 [6], associated with the current DRX cycle occurred in Active Time considering…  **Comment-3: I am not sure if we specify [no DRX group is in active time] in 1>, do we still need 4> ?**  **Suggest to remove [no DRX group is in active time] in 1>, the clarification for LP-WUS monitoring outside active time can be reflected in other part or spec.**  2> if lpwus\_PDCCHMonitoringTimer is configured (i.e., LP-WUS Option 1-2):  3> if LP-WUS indication is received from lower layer indicated to start lpwus\_PDCCHMonitoringTimer, as specified in TS 38.213 [6]:  4> start lpwus\_PDCCHMonitoringTimer from the beginning of the subframe indicated from lower layer.  **Comment-4: do we need to consider what if LP-WUS (opt 1-2) occasion occurred in active time (just refer to LP-WUS opt 1-1)?** |  |
| Xiaomi | 1> if LP-WUS monitoring is configured and no DRX group is in Active Time:  …  4> if all LP-WUS monitoring occasion(s) in time domain, as specified in TS 38.213 [6], associated with the current DRX cycle occurred in Active Time considering grants/assignments/DRX Command MAC CE/Long DRX Command MAC CE received and Scheduling Request sent until 4 ms prior to start of the last LP-WUS occasion, or during a measurement gap, or when the MAC entity monitors for a PDCCH transmission on the search space indicated by recoverySearchSpaceId of the SpCell identified by the C-RNTI while the ra-ResponseWindow is running (as specified in clause 5.1.4):  5> start drx-onDurationTimer after drx-SlotOffset from the beginning of the subframe.  **Comment 1:** we also think the above two parts are contradicting with each other. Maybe remove one of those.  On the other hand, we think it is still unclear for option 1-1 whether UE still monitors LP-WUS during DRX active time/during measurement gap/will RAR window running.  **Comment 2:** there are some occurrences of lpwus\_PDCCHMonitoringTimer with/without “for the DRX group”. Better to align, i.e. add “for the DRX group” |  |
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# 3 Conclusion

Based on post-meeting email discussion, Rapporteur identify the following stage 3 open issues: