**3GPP TSG-RAN WG2 Meeting #131 R2-250xxxx**

**India, TBD, 25th – 29th Aug. 2025**

**Source: vivo**

**Title: Discussion summary and list of RLC open issue for R19 XR**

**Agenda Item: 8.7.1**

**Document for: Discussion and Decision**

1. Introduction

This document summarizes the discussion of the following email discussion and collects the RLC open issues for XR Enhancements according to the following email discussion.

* [POST130][508][XR] RLC running CR and open issues (vivo)

 Scope:

* Update and review the CR
* List open issues related to the CR

 Intended outcome:

* Running CR for endorsement in the next meeting
* List of open issues for discussion at the next meeting

 Deadline: Long

Companies are invited to provide comments/additional open issues in the below table by 31st July, 2025.

# Contact information

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| --- | --- |
| Company | Name, Email |
| Vivo | Chenli, chenli5g@vivo.com |
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# Discussion

* 1. Open issue list

**Rapporteur provides the list of open issues as below, and the corresponding suggestions on how to address them. Some of them could be further discussed based on contributions or resoved based on further progress. Companies are invited to provide comments on whether it is open issue and whether the suggestions from reapporteur is accuracy enough.**

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| **Company** | **Comments, if any** |
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### Closed open issues

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| **Index** | **Issue description** | **Status** |
| RLC-1 | **Terminology for avoiding unnecessary retransmission, e.g. “obsolete”, or “outdated”, or “discard”** | **Closed** |
| RLC-2 | **whether further changes are needed for SR triggered by t-RxDiscard expires.** | **Closed** |
| RLC-3 | **whether use the terminology of “autonomous retransmission” or others.** | **Closed** |
| RLC-4 | **whether merge the autonomous retransmission procedure in clause 5.x into 5.3.2 or capture it separately.** | **Closed** |
| RLC-5 | Editor’s Note: Same as PDCP open issue: it is FFS which delay-reporting RLC data volume shall consider RLC data PDUs to be retransmitted.Editor’s Note: It is FFS which delay-reporting RLC data volume shall consider STATUS PDU to be transmitted. | **Closed** |
| RLC-6 | Editor’s Note: FFS whether there are any RLF detection impacts when avoiding unnecessary retransmissions is introduced.  | **Closed** |
| RLC-7 | Editor’s Note: It is still open how Autonomous Retransmission coexists with ARQ procedures, i.e. whether/how to increment the RETX\_COUNT for Autonomous Retransmission. | **Closed** |
| RLC-8 | Editor’s Note: It is still open on how to avoid excessive polling for the polling enhancement, e.g. only one polling or multiple.  | **Closed** |
| RLC-9 | Editor’s Note: FFS whether/what additional conditions are needed to prevent too early and/or unnecessary retransmission due to polling enhancement. | **Closed** |

### DSR enhancements

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| **Index** | **Issue description** | **Rapporteur suggestion** |
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### Avoid unnecessary RLC retransmissions

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| **Index** | **Issue description** | **Rapporteur suggestion** |
| RLC-10 | Whether/How to introduce any limitations or associations for the configuration of stopReTxObsoleteSDU and DL t-RxDiscard.* As raised by ZTE below
 | **Issue Type:** Not essential not important**How to address it:** based on companies’ contribution |
| RLC-11 | FFS how to handle the case “ if there are only SDUs buffered whose transmissions have been stopped due to discard indication from PDCP, there is no SDU to retransmit the poll with”* As raised by Nokia and Apple below

RAN2 agreement in #130 meeting:* Working assumption: (RLC-11) No need to address window stalling issue with polling retransmission (TBC next meeting)
* Assumption from companies is that this should not happen due to SR triggering from Rx side, but it needs to be checked whether this will always work
 | **Issue Type:** Not essential but important**How to address it:** based on companies’ contribution |

### Ensure timely RLC retransmissions

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| **Index** | **Issue description** | **Rapporteur suggestion** |
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### Rel-18 leftovers

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| **Index** | **Issue description** | **Rapporteur suggestion** |
| RLC-12 | FFS how to handle PDCP SN gap report handling during UE mobility* As raised by Qualcomm below. The corresponding Rel-18 agreement is:
* RAN2 can discuss in the context of Rel-19 whether this problem is a critical problem to solve due to RLC enhancements. If it is a problem further discussions are needed on the alternatives.
 | **Issue Type:** Not essential not important?**How to address it:** based on companies’ contribution |

* 1. Others, please specify

Companies are invited to describe any other identified open issues not currently included within this document.

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| **Company** | **Other identified open issues? (please describe) or other comments** |
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# Conclusion

In this contribution, we collect the open issues for XR enhancements in RLC. Based on the discussion, the following proposals have been achieved:

**Other open issues:**

**Proposal 1: RAN2 to consider the above open issues related to RLC for XR: RLC-10 to RLC-12.**

# References

1. R2-25xxxx, RLC running CR for R19 XR, vivo