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

**Bengaluru, India, August 25, – August 29, 2025**

**Agenda item:**8.7.1 (NR\_XR\_Ph3-Core)

**Source:** LG Electronics

**Title:** Discussion of [POST130][507][XR] PDCP running CR and open issues (LGE)

**Document for:** Report

# 1. Introduction

This document summarizes the discussion of the following offline discussion.

* [POST130][507][XR] PDCP running CR and open issues (LGE)

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

# 2. Contact information

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| --- | --- | --- |
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# 3. Comments to the PDCP running CR v00

Companies are invited to list their comments on v01, using comment identifier (company ID and number), e.g. LGE001. The rapporteur will provide update based on the comments in proper time.

|  |  |  |  |
| --- | --- | --- | --- |
| Comment identifier | Section | Comments and/or change suggestions | Rapporteur resolution |
| CATT001 | 3.1 | **PDU Set remaining time**: the shortest remaining time till *discardTimer* expiry among the PDCP SDUs belonging to the PDU Set.  We think the description on “ A among B “, A and B should be the objects in the same level. Similar description in TS 38.3223 is as below. Hence it is suggested to revised it as :  **PDU Set remaining time**: the shortest remaining time till *discardTimer* expiry among the **remaining time of** PDCP SDUs belonging to the PDU Set.  -----------------------------------------------------------------------------  - compile a PDCP SN gap report as indicated below by:  - setting the FDC field to the smallest COUNT value among the COUNT values associated with the discarded PDCP SDU(s); | Thanks. Included in v01. |
| FW001 | 5.x | In both paragraphs, “if the remaining time till *discardTimer* expiry becomes less than the [xxx] for the PDCP SDU for which the corresponding PDCP Data PDU has already been submitted to lower layers”, between the time that the PDU is submitted to lower layers and the moment that the “if” condition is satisfied, it is possible that the PDU has been delivered successfully by lower layers and the successful delivery has been confirmed by lower layers (e.g., by indication). The question is for such PDU whether we still want to the PDCP entity to indicate to lower layers that the condition for remaining-time-based auto-retx or polling is met. If not, maybe we can change the above highlighted text to the following:  for which the corresponding PDCP Data PDU has already been submitted to lower layers and for which successful delivery has not been confirmed by lower layers | Thanks. Included in v01 with slight modification (and 🡪 but). |
| V001 | 5.15 | For the purpose of single entry MAC delay status reporting, the transmitting PDCP entity shall consider the following as delay-critical PDCP data volume:  …  For the purpose of multiple entry MAC delay status reporting, the transmitting PDCP entity shall evaluate the delay-reporting PDCP data volume in ascending order of *dsr-ReportingThreshold*, and consider the following as delay-reporting PDCP data volume associated with the i:th *dsr-ReportingThreshold*: | Thanks. Included in v01. |
| **Put your comments in the next section** | | | |

# 4. Comments to the PDCP running CR v01

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| --- | --- | --- | --- |
| Comment identifier | Section | Comments and/or change suggestions | Rapporteur resolution |
| OF001 | 5.x | To be consistent between two conditions:  …   * indicate to lower layers that the condition for remaining-time-based RLC polling is met for the corresponding PDCP Data PDU. |  |
| SS001 | 3.1, 5.15 | As in present definition of non-delay-reporting PDCP SDU, it is not uniquely associated with i:th *dsr-ReportingThreshold* and therefore, it is suggested to append as below to make it distinct and definite.  **Non-delay-reporting PDCP SDU**: a non-delay-reporting PDCP SDU associated with the i:th *dsr-ReportingThreshold* is a PDCP SDU that will be transmitted prior to any of the delay-reporting PDCP SDUs associated with the i:th *dsr-ReportingThreshold* but not prior to any of the delay-reporting PDCP SDUs associated with the i-1:th *dsr-ReportingThreshold*.  Further, if definition for non-delay-reporting PDCP SDU is specified as above, the procedural part can be simplified (yellow highlighted text can be omitted)  If *dsr-ReportNonDelayCriticalData* is configured, the transmitting PDCP entity shall further consider the following as delay-reporting PDCP data volume associated with the i:th *dsr-ReportingThreshold*:  - the non-delay-reporting PDCP SDUs associated with the i:th *dsr-ReportingThreshold* for which no PDCP Data PDUs have been constructed, and are not considered as delay-reporting PDCP data volume associated with any of the k:th *dsr-ReportingThreshold* where k < i;  - the PDCP Data PDUs that contain the non-delay-reporting PDCP SDUs associated with the i:th *dsr-ReportingThreshold* and have not been submitted to lower layers, and are not considered as delay-reporting PDCP data volume associated with any of the k:th *dsr-ReportingThreshold* where k < i. |  |
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# 5. Open issues

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