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

**Bangalore, India, 25-29 August 2025**

**Agenda Item: 8.7.1**

**Source: Qualcomm Incorporated**

**Title: List of open issues in MAC**

**Document for: Discussion**

# 1. Introduction

This document is to collect open issues related to the MAC-layer enhancements for XR. Please provide your input no later than **end of Friday August 1 UTC**. Please note that this deadline is earlier than the one for the running CR review. The intention is to give companies more time to prepare contributions based on the final list.

# 2. Contact information

Please provide your contact information in the table below.

|  |  |  |
| --- | --- | --- |
| **Company** | **Name** | **Email** |
| Ofinno | Hsin-Hsi Tsai | htsai@ofinno.com |
| NEC | Jinhui Wen | wen\_jinhui@nec.cn |
|  |  |  |
|  |  |  |
|  |  |  |

# 3. Issues

In the tables below, you are welcome to provide

* any open issues related to the MAC running CR;
* any MAC-related topics that you think may be worth discussing at the next meeting;
* comments on open issues or potential discussion topics provided by others.

## 3.1 LCP

|  |  |
| --- | --- |
| **Company** | **Description of open issues** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

## 3.2 DSR

|  |  |
| --- | --- |
| **Company** | **Description of open issues** |
| NEC | The definition of a PDCP SDU associated with a DSR may be revised.  Currently, the definition relies on the concept of **delay-critical PDCP SDU** to determine whether a pending DSR should be cancelled (i.e., when no delay-critical PDCP SDU remains). However, the cancellation condition for **Multiple Entry DSR** may also be based on the absence of **delay-reporting PDCP SDU** (i.e., no delay-reporting PDCP SDU remains or all the related information is reported).  A specific scenario illustrates the issue: Suppose the largest configured threshold in *dsr-ReportingThresList* is greater than *remainingTimeThreshold*. In such a case, there may be data whose remaining time falls into the range **above *remainingTimeThreshold* but below the largest configured reporting threshold**. If the current definition (which is based on delay-critical PDCP SDU) is applied—and there is no data with a remaining time below *remainingTimeThreshold*—the **Multiple Entry DSR** will be cancelled, even though relevant delay-reporting PDCP SDU still exists. |
|  |  |
|  |  |
|  |  |
|  |  |

## 3.3 UL Rate control

|  |  |
| --- | --- |
| **Company** | **Description of open issues** |
| Rapporteur | ID for QoS flows in the UL Rate Control MAC CE |
| Rapporteur | Format of the UL Rate Control MAC CE |
| Rapporteur | Whether a UL Rate Control MAC CE is transmitted only if the available UL-SCH resources can accommodate all the pending queries |
| Ofinno | UE behaviors if the available UL-SCH resources cannot accommodate the UL Rate Control MAC CE. (This can be discussed together with the above Rapporteur’s issue) |
| Ofinno | Logical channel priority of the UL Rate Control MAC CE.  We understand this has been captured as the same priority as the legacy Recommended bit rate MAC CE in the current running CR. However, it seems we haven’t had agreement for this, and the characteristic of this UL Rate Control MAC CE is different from the legacy Recommended bit rate query MAC CE, probably we can discuss this to see companies’ view. |

## 3.4 Other

|  |  |
| --- | --- |
| **Company** | **Description of open issues** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

# 4. Summary

Based on the discussion above, the following is a list of MAC-related open issues recommended for discussion at the RAN2#131 meeting.