3GPP TSG-RAN WG2 #130 R2-250xxxx

**St Julian, Malta, 19-23 May 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 running CR.

You are welcome to provide additional open issues in the tables blow.

# 2. Issues

## 2.1 LCP

* [MAC-01] Impact of priority adjustment on SR priority determination
* [MAC-02] Impact of congestion (i.e. PSI-based SDU discard) on priority adjustment
* Additional issues:

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| **Company** | **Open issues** |
| Apple | * **Priority fallback with consideration of PDU Set integrated handling:** Should the UE fallback the priority, if there is no more PDCP SDU with PDCP discard timer remaining value smaller than the threshold, but there is still at least one PDCP SDU with PDU Set Remaining Time smaller than the threshold ?

A diagram of a comparison between a few different types of lch  AI-generated content may be incorrect.[Rapp] Please see other companies’ comments on this issue in the running CR. |
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## 2.2 DSR

- [MAC-03] DSR cancelation in DC configuration

* Additional issues:

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| **Company** | **Open issues** |
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## 2.3 XR rate control

* [MAC-04] Which type of ID should be used to identify a QoS flow, e.g. DRB ID + QFI ID or some other identifier
* [MAC-05] Whether the Rate Control MAC CE includes single or multiple QoS flows
* [MAC-06] Any additional fields that should be included in the Rate Control MAC CE
* [MAC-07] Format of the Rate Control MAC CE
* [MAC-08] Handling of triggered UL rate queries (e.g. multiplexing, transmission and cancelation, etc)
* [MAC-09] How UE should handle the Rate Control MAC CE in DC configuration
* [MAC-10] Behavior of *bitRateQueryProhibitTimer*
* [MAC-11] Whether to apply the same design for UL rate control design to DL data transmission
* [MAC-12] How to indicate in the Rate Control MAC CE that a query from UE is for available bit rate.
* Additional issues:

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| --- | --- |
| **Company** | **Open issues** |
| Ofinno | (1) Whether to introduce the *bitRateQueryProhibitTimer.* Granularity of the configured bitRateQueryProhibitTimer.[rapporteur] It has already been agreed to introduce this timer. The granularity of this timer is being discussed in the RRC running CR.(2) Whether the UL bit rate query MAC CE can query the available/recommended bit rate without the desired bit rate.[rapporteur] This feature is already in the endorsed 300 and 321 running CR from the last meeting. (3) What’s the purpose when bit rate query indicates index “0” in the bit rate table.[rapporteur] Per the chair’s guideline, as this is a minor issue, companies are invited to discuss it in the running CR review instead of online.(4) What’s the UE behaviour if the UL resources cannot accommodate the Rel-19 UL bit rate MAC CE.(5) The cancellation conditions of the triggered bit rate query. [rapporteur] #4 and #5 will be added under “Handling of triggered UL rate queries” |
| vivo | 1. The details behaviour for *bitRateQueryProhibitTimer* is missing the current MAC running CR.[Rapp] Agree. Added it to the list2. In RAN#106, it was agreed RAN2 firstly focus on rate control for UL data transmission and evaluate any issues when apply same solution for DL data transmission and send LS to SA2/SA4/RAN3 accordingly.We assume we need to send LS to check with other WGs for DL rate control after we have complete design.With this, we suggest to add one more open issue for DL rate control. [Rapp] Agree. Added it to the list.3. In legacy RBR, it was captured like:The recommended bit rate procedure is used to provide the MAC entity with information about the bit rate which the gNB recommends. The bit rate is the recommended bit rate of the physical layer. Averaging window of default value 2000 ms will apply as specified in TS 26.114 [13].For Rate control here, whether we need to define a averaging window or just leave this to NW and UE implementation? Just for clarification. [Rapp] In rapporteur’s view, this requirement does not need to be captured in the MAC spec.  |
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