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

**Bangalore, India, 25 – 29 Augugst 2025**

**Agenda item: 8.7.1**

**Source: Xiaomi**

**Title: Open issues of Rel-19 XR UE capabilities**

**Document for: Discussion and Decision**

# Introduction

As part of email discussion “[POST130][509][XR] UE capabilities CRs (Xiaomi)”, this document is to collect list of open issues on Rel-19 XR UE capabilities for discussion at RAN2#131 meeting. Companies are invited to provide input no later than August 1st Friday 10:00 UTC.

|  |  |  |
| --- | --- | --- |
| **Company** | **Name** | **Email** |
| Ericsson | Nithin Srinivasan | nithin.srinivasan@ericsson.com |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

# Discussion

## Closed Open issues

The following open issues in R2-2503438 were closed based on RAN2#130 meeting agreements:

* Open issue 2: whether to have separate or joint UE capability for UE Tx and Rx operations for unnecessary retransmission avoidance.
* Open issue 3: whether RAN2 to define the UE capability for UAI for a ratio of gap occasions.

## Open issue list

(UE capability-01): the pre-requisite of enhanced delay status report

This was discussed in RAN2#129bis meeting (as shown below) and an FFS was captured: “*FFS A UE supporting this feature shall also indicate support of delayStatusReport-r18.*” Contributions submitted to RAN2#130 meeting on this topic were not treated due to lack of time.

* LGE, QCM thinks we do not need to couple R18 and R19 DSR. Vivo thinks reasonable UE will implement R18 if implements R19, but does not want to couple in specs.
* Huawei does not think it is possible to support R19 without R18

(UE capability-04): The pre-requisite of Tx side stopping transmission of discarded SDU

This was discussed in RAN2#130 meeting (as shown below) and an FFS was captured: “*Define an (optional) per-UE capability with signalling for the Tx-side aspect, where the Tx side stops transmissions for an outdated SDU based on an indication from the PDCP. FFS A UE supporting this feature shall also indicate the support of Rx-side aspect.*”

* OPPO thinks we do not have mandate UE supporting Tx side to also support Rx side. Vivo agrees.
* LGE thinks Tx side requires Rx side, otherwise we can have window stalling issue we just discussed. LGE supports the proposals.
* OPPO indicates that this is for UL so SR is triggered by the network.

## Other open issues

Companies are invited to describe any other identified open issues not included in clause 2.2 above.

|  |  |
| --- | --- |
| **Company** | **Description of open issues** |
| Ericsson | It was agreed in RAN2 that the CN will provide the information to the RAN on rate adaptability of the QoS flows and SA2 also confirmed in their LS reply (S2-2504252). Then, it was also agreed that a new radio access UE capability is introduced to indicate support for XR rate control MAC CE. But the CN is unaware of the contents of UE’s radio access capabilities and would perform the determination of rate adaptability even if the UE does not support the corresponding capability. This results in this information being provided to the RAN, only to be ignored. Further, the rate adaptability can also be used to setup a dedicated QoS flow to prevent multiplexing of non-rate adaptable flows, which could be unnecessary if the UE does not support the capability. Thus, RAN2 should discuss a solution to overcome this issue. |
|  |  |
|  |  |
|  |  |
|  |  |

# Conclusion

In this contribution, we collect open issues of Rel-19 XR UE capabilities. Based on above discussion, following open issues are recommended for discussion at RAN2#131 meeting: