**3GPP TSG-RAN WG2 Meeting #130 R2-250**

**Wuhan, P. R. China , 7th – 11st Apr, 2025**

**Agenda Item: 8.X**

**Source: Huawei, HiSilicon**

**Title: Summary of [POST129][510][XR] RRC running CR (Huawei)**

**Document for: Discussion and Decision**

# 1 Introduction

This paper summarizes the post meeting email discussion for the RRC running CR

**[POST129][510][XR] RRC running CR (Huawei)**

 Scope: Update and review the CR

 Intended outcome: Running CR for endorsement in the next meeting

 Deadline: Long

Based on the companies' inputs, the proposals have been formulated at the conclusion section.

Please fill in the contact information in the table below

|  |  |  |
| --- | --- | --- |
| **Company** | **Contact Person** | **Email Address** |
| CATT | Hao Xu | xuhao@catt.cn |
| Futurewei | Yunsong Yang | yyang1@futurewei.com |
|  |  |  |
|  |  |  |
|  |  |  |

# 3 Examining the running CR

This section is used to collect comments for the running CR in *R2-250xxxx Running RRC CR for R19 XR\_v00\_Rapp*.

***Question0: Any comments on the running CR?***

|  |  |  |
| --- | --- | --- |
| **Company** | **Issue** | **Suggestion** |
| CATT | There is one typo in the Coversheet.  | Change#8: Add remaining time threshold for autonomous retransmission. |
| CATT | For the field description of ***lcp-DefaultPriorityFallback***, the wording of first/second phase of the resource allocation among LCP procedure can be improved. | Prefer to use the wording “first/second round of the resouce allocation among LCP procedure”. |
| CATT | For the field description of ***t-RxDiscard***, it stated in the last that “The value of the field should not be lower than that configured by the field *t-Reassembly*.” | In the current specification, beside the *t-Reassembly*, there is also another parameter “*t-ReassemblyExt*” , I just wonder whether we need to further clarify the relationship with parameter ***t-ReassemblyExt***.  |
| FW(01) | In Change#2 IE text description:Three issues:1. Unclear what the threshold list is about (time or something else).
2. What are reported are not only remaining times but also data volumes. A simple and better fix is not getting into the details here.
3. Should specify that the values in the list are ordered in ascending order.
 | Change to the following:***dsr-ReportingThresList***List of remaining time thresholds for reporting the enhanced DSR, as specified in TS 38.321 [3]. Values in number of milliseconds and ordered in ascending order.Editor's NOTE: exact name of the DSR MAC CE introduced in R19 to be further discussed and aligned with the MAC spec. |
| FW(02) | In Change#8 and Change#9 IE text descriptions: Editorial: incorrect indefinite articles being used before “RLC”. | Change “a RLC” to “an RLC” in both instances. |

4 Discussions

## 4.1 LCP enhancements

For LCP with additional priority, during RAN2#128, it was agreed that *As an optional capability, the UE can also support to fallback to default priority in the 2nd round of LCP*.

Then, with the introduction of the UE capability, another qustion to ask is whether the network can configure the UE to enable the fallback to the default priority in the 2nd round of LCP

Companies are invited to answer the following question

***Question1: Do companies think we should introduce RRC configuration to enable/disable the fallback to default priority in the 2nd stage of LCP?***

|  |  |  |
| --- | --- | --- |
| **Company** | **Yes/No** | **Comments** |
| CATT | Yes | It is preferred that the LCP related configuration is under gNB’s control, for example, additional priority and remaining time threshold for LCP enhancement are configured by gNB, it is more nature for UE to perform the fallback capability also under gNB’s control. |
|  |  |  |

## 4.2 DSR enhancements

For DSR enhancements, during RAN2#128, it was agreed in RAN2 that *The UE may also support including non-delay critical data ahead of delay critical data in the buffer size calculation for DSR, which is a capability indicated to the NW*.

Then, with the introduction of the UE capability, another qustion to ask is whether the network can configure the UE to inlcude the non-delay criticla data ahead of delay critical data in the buffer size calculation for DSR.

Companies are invited to answer the following question

***Question2: Do companies think we should introduce RRC configuration to enable/disable the inclusion of non-delay critical data ahead of delay critical data in the buffer size calculation for DSR?***

|  |  |  |
| --- | --- | --- |
| **Company** | **Yes/No** | **Comments** |
| CATT | Yes | As one of the enhancements for DSR reporting, it is preferring to introduce RRC configuration to enable/disable this inclusion of non-delay critical data ahead of delay critical data in the buffer size calculation. |
|  |  |  |

Currently, the maximum number of entries in the reporting threshold configuration is 4 as a placeholder, i.e., as many as 4 reporting thresholds can be configured by the RRC.



Companies are invited to provide their view on the maximum number of thresholds for the list of reporting thresholds. Rapp recommends that issues like MAC CE size, PSDB, report accuracy should be considered

***Question3: What should be the maximum number of configurable reporting thresholds in the enhanced DSR configuration?***

|  |  |  |
| --- | --- | --- |
| **Company** | **Maximum number of thresholds (e.g., 4, 8)** | **Comments** |
| CATT | 4 | The intention of introducing this multi reporting threshold is to supply more finer information about the delay for the related service, also we need to furhter balance with the overheads, from this point of view, we think 4 is enough. |
|  |  |  |

## 4.3 Available data rate query

Regarding to the bit rate query, during RAN2#129, it was agreed as a working assumption that

**Working assumption:**

* **Support rate query MAC CE with the target to use same design that we will agree for rate indication MAC CE.**
* **The rate query MAC CE is configurable by the network, i.e. the network may turn it off completely (same as legacy).**

In legacy R15, for the support of recommended bit rate query, the following was supported in the MAC spec

|  |
| --- |
| If the MAC entity has UL resources allocated for new transmission the MAC entity shall:1> for each Recommended bit rate query that the Recommended Bit Rate procedure determines has been triggered and not cancelled:2> if *bitRateQueryProhibitTimer* for the logical channel and the direction of this Recommended bit rate query is configured, and it is not running; and2> if the MAC entity has UL resources allocated for new transmission and the allocated UL resources can accommodate a Recommended bit rate MAC CE plus its subheader as a result of LCP as defined in clause 5.4.3.1:3> instruct the Multiplexing and Assembly procedure to generate the Recommended bit rate MAC CE for the logical channel and the direction of this Recommended bit rate query;3> start the *bitRateQueryProhibitTimer* for the logical channel and the direction of this Recommended bit rate query;3> cancel this Recommended bit rate query. |

Then, in the RRC spec, the bit rate query prohibit timer was introduced in the logical channel configuration.



Following the agreement in this meeting (to follow the legacy configurability in the RRC by the network), rapp would like to ask the following question

***Quesiton4: Do companies think we should follow the legacy, i.e.,***

1. ***to introduce a prohibit timer for the UL transmission of the data rate query MAC CE?***
2. ***to enable/disable the rate query MAC CE by the presence of the prohibit timer in the RRC configuration?***

|  |  |  |  |
| --- | --- | --- | --- |
| **Company** | **(a)****Yes/No** | **(b)****Yes/No** | **Comments** |
| CATT | Yes | Yes | There is no distinguish motivation forseen from our point of view. |
|  |  |  |  |

we have agreed that the available data rate indication shall be carried in the granularity of QoS flow level, with two possible options pending for further discussion

|  |
| --- |
| 3. Rate indication from gNB to the UE on a per QoS flow level is supported. FFS the details, e.g. if: 1) flows are indicated by MAC CE or 2) by RRC while MAC CE is per DRB. |

If the answer to the qustion4 is yes, the rapporteur would like to ask the following question

***Quesiton5: If the answer to the question above is yes, should the prohibit timer be configured in the QoS flow level?***

|  |  |  |
| --- | --- | --- |
| **Company** | **Yes/No** | **Comments** |
| CATT | Yes, but | The granulirity of the forhibit timer should be align with the granulirity of the final adopt MAC CE. This issue can be postponed until the FFS on the details part is solved. |
|  |  |  |

5 Conclusion

TBD