3GPP TSG RAN WG1 Meeting #108-e R1-22xxxxx

21st February – 3rd March 2022

Agenda Item: 8.10

Source: Moderator (Qualcomm Incorporated)

Title: Summary of [108-e-R17-RRC-eIAB] Email discussion on Rel-17 RRC parameters for eIAB

Document for: Discussion and decision

This document provides a summary of the following email discussion on RRC parameters to support eIAB physical layer operation:

[108-e-R17-RRC-eIAB] Email discussion on Rel-17 RRC parameters for eIAB – Luca (Qualcomm)

* 1st check point for first LS in [108-e-R17-RRC]: February 24
* Final check point for second LS in [108-e-R17-RRC] if necessary: March 3

The starting point from the discussion is largely based on the outcome of the related discussion in RAN1#107-e, reflected in [1]. Since the scope of this thread is constrained to RRC parameters only, only the RRC related input has been extracted from [1]. Additional input was provided in [2]. Track changes was enabled to highlight the modifications from [1] for parameters within the scope of this discussion.

The input to the next round of consolidated RRC thread [108-e-R17-RRC] will be updated to reflect the starting point provided in this document and will be subsequently updated based on the progress from this discussion, as needed.

The plan is to continue this WI specific discussion using this format. Once completed, the output of this discussion will be folded into the LSs under [108-e-R17-RRC] as well as into a consolidated eIAB LS to RAN2 and RAN3 with all eIAB upper layer parameters (RRC, MAC-CE and F1AP), which will merge in the output from the related email discussion [108-e-R17-eIAB-03].

| **Param. ID** | **Sub-feature group** | **New or existing parameter** | **Parameter name in specification** | **Description** | **Value range** | **Default value** | **IAB node specific/IAB nodes common** | **Specification** | **Signaling** | **Comment** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| P24 | Resource multiplexing | New | *AvailabilityCombinationsPerCell-r17* | Indicates availability for the soft resources of the respective RB sets corresponding to a given time resource of the child IAB-DU cell. | FFS |  | IAB node specific |  | **RRC** | **RAN1 #106bis-e**  **Agreement**  A single DCI format 2\_5 can be received indicating availability for the soft resources of the respective RB sets corresponding to a given time resource of the child IAB-DU cell.   * FFS: Extension of *AvailabiltyCombination* to include multiple RB sets in a *resourceAvailabilty* indication * FFS: Update*resourceAvailability* mapping table defined in TS38.213 so that the indication of availability can be applied over soft resources in frequency-domain for DL or UL or Flexible symbols. * FFS: Need for extension of the maximum payload size of DCI format 2\_5 to increase the number of IAB-DU cells that can be provided with availability information for Soft resources to accommodate the maximum number of possible RB sets for a given DU cell (if defined), or other backwards compatible signaling extensions in case the principal indication capabilities of DCI format 2\_5 are increased.   **RAN1 #107-e**  **Agreement:**  For DCI format 2\_5 indicating availability for the soft resources of the respective RB sets corresponding to a given time resource of the child IAB-DU cell:   * *AvailabiltyCombination* can be extended to include multiple *resourceAvailabilty*, where each *resourceAvailabilty* includes availability indication for one RB set group   + One RB set group consists of one or multiple RB sets |

NOTE: the Parameter ID field is an arbitrary field that was added to facilitate referencing a particular row in the parameters table when commenting.

Companies are encouraged to provide feedback on the above, in the following table:

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| Company | Comments |
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References

[1] R1-2112966 – Summary of [107-e-R17-RRC-eIAB] Email discussion on Rel-17 higher layer parameters (RRC, MAC-CE, and F1AP) for eIAB – Moderator (Qualcomm)

[2] R1-2202404– Higher layer parameters (RRC, MAC-CE, F1AP, XnAp) for enhanced IAB – Ericsson