**3GPP TSG RAN WG1 Meeting #112bis-e R1-23xxxxx**

**Online, April 17th – April 24th, 2023**

**Agenda Item:** 7.2

**Source:** Moderator (Qualcomm Incorporated)

**Title:** Summary #1 of [112bis-e-R17-IAB-01]

**Document for:** Discussion and decision

# Introduction

This contribution provides a summary for maintenance of enhancements to integrated access and backhaul under agenda item 7.2 according to the following email thread:

Discussion coordination updates will be published in the following thread:

[112bis-e-R17-IAB-01] Email discussion on Rel-17 IAB maintenance by April 21 – Luca (Qualcomm)

Active discussion items for which companies’ input is sought are yellow background highlighted.

Inactive discussion topics are grey background highlighted.

Agreements or conclusions are green background highlighted.

New text from the moderator in each round of discussion after the initial revision is highlighted in light blue.

# Summary

There are 4 topics identified based on the contributions and draft CRs [1] – [5] submitted for eIAB under agenda item 7.2.

# Discussion

## Topic #1. Correction on the description of slot index in TS38.213

Related input from contributions:

|  |  |
| --- | --- |
| ZTE, Sanechips[1] |  |

The FL deems the correction has merit and hence it is proposed to endorse it.

**FL Proposal 1:**

**Endorse correction in R1-2303399.**

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| **Company** | **Comments** |
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## Topic #2. Correction on availability indication in eIAB

Related input from contributions:

|  |  |
| --- | --- |
| Ericsson[2] |  |

The FL thinks the aforementioned RAN1#110bis-e agreement is captured in TS 38.213 according to the approved CR in R1-2210757, in accordance to the following RAN1#110bis-e agreement:

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| --- | --- |
| **RAN1#110bis-e Agreement**Confirm the WA from RAN1#110:

|  |
| --- |
| If Rel-16 H/S/NA resource configuration and Rel-17 H/S/NA resource configuration are both provided for a given RB set within a slot: Alt 3b. A resource configured with Rel-16 S with dynamic indication of availability overrides the Rel-17 H/S/NA configuration, otherwise the child node follows the Rel-17 H/S/NA configuration for the resource. |

Correction on coexistence of Rel-17 and Rel-16 HSNA configuration for TS38.213 is agreed. Final CR in R1-2210757. |

The FL agrees the aforementioned RAN1#112 agreement is not captured in the specifications. A more concise correction is proposed to reflect this agreement.

**FL Proposal 2:**

**Endorse the following correction for TS 38.213:**

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| --- |
| 14 Integrated access-backhaul operation**<Unchanged parts are omitted>**An AI index field value in a DCI format 2\_5 indicates to an IAB-DU a soft symbol and/or a soft RB set in an RB set group availability in each slot for a number of slots starting from the earliest slot of the IAB-DU which overlaps in time with the slot of the IAB-MT where the IAB-MT detects the DCI format 2\_5. The number of slots is equal to or larger than a PDCCH monitoring periodicity for DCI format 2\_5 as provided by *SearchSpace*. The AI index field includes $max\left\{\left⌈log\_{2}\left(maxAIindex+1\right)\right⌉,1\right\}$ bits where maxAIindex is the maximum of the values provided by corresponding availabilityCombinationId. An availability for a soft symbol or a soft RB set in an RB set group in a slot is identified by a corresponding value resourceAvailability as provided in Table 14-3.**<Unchanged parts are omitted>** |

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| **Company** | **Comments** |
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## Topic #3. Correction on reference SCS for availability indication in eIAB

Related input from contributions:

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| --- | --- |
| Ericsson[3], [4] |  |

The FL agrees that a clarification is helpful.

**FL Proposal 3:**

**Endorse the following correction:**

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| --- |
| 14 Integrated access-backhaul operation < Unchanged parts are omitted > The IAB-DU can assume a same SCS configuration for *availabilityCombinations-r16* or *availabilityCombinationsRBGroups-r17* for slots of a cell as an SCS configuration provided by *gNB-DU Cell Resource Configuration* for the cell.The IAB-DU can assume a same SCS configuration for *availabilityCombinationsRB-Groups-r17* for RB sets of a cell as a SCS configuration provided by *RB Set Configuration* for the cell.< Unchanged parts are omitted >  |

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| **Company** | **Comments** |
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## Topic #4. Correction on RRC parameters in eIAB

Related input from contributions:

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| --- | --- |
| Ericsson[5] |  |

The FL deems the correction has merit and hence it is proposed to endorse it.

**FL Proposal 4:**

**Endorse correction in R1-2303871.**

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| **Company** | **Comments** |
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# References

[1] R1-2303399  Correction on the description of slot index in TS38.213, ZTE, Sanechips

[2] R1-2303868  Correction on availability indication in eIAB, Ericsson

[3] R1-2303869   Discussion on reference SCS for availability indication in eIAB, Ericsson

[4] R1-2303870  Correction on reference SCS for availability indication in eIAB, Ericsson

[5] R1-2303871   Correction on RRC parameters in eIAB, Ericsson