**3GPP TSG-RAN WG1 Meeting #110bis-e *R1-221xxxx***

**e-Meeting, October 10-19, 2022**

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| *CR-Form-v12.2* | | | | | | | | |
| **[DRAFT] CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.213** | **CR** | **xxxx** | **rev** | **-** | **Current version:** | **17.3.0** |  |
|  | | | | | | | | |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network | **x** | Core Network |  |

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| ***Title:*** | Draft CR on deleting redundant descriptions for HARQ-ACK CB types in UL DCI formats | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Moderator (Huawei), Lenovo | | | | | | | | | |
| ***Source to TSG:*** | R1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_MBS-Core | | | | |  | ***Date:*** | | | 2022-10-12 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *Use one of the following categories:* ***F*** *(correction)* ***A*** *(mirror corresponding to a change in an earlier release)* ***B*** *(addition of feature),* ***C*** *(functional modification of feature)* ***D*** *(editorial modification)*  Detailed explanations of the above categories can be found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | | | | | | | | *Use one of the following releases: Rel-8 (Release 8) Rel-9 (Release 9) Rel-10 (Release 10) Rel-11 (Release 11) … Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | * ‘if *pdsch-HARQ-ACK-Codebook-Multicast = semiStatic* is configured’ is redundant when ‘1 bit for semi-static HARQ-ACK codebook for unicast and multicast’ is stated. * ‘if the higher layer parameter *pdsch-HARQ-ACK-Codebook-Multicast = dynamic* is configured’ is redundant when ‘2 bits for the dynamic HARQ-ACK codebook for multicast’ is stated. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Delete ‘if *pdsch-HARQ-ACK-Codebook-Multicast = semiStatic* is configured’ and ‘if the higher layer parameter *pdsch-HARQ-ACK-Codebook-Multicast = dynamic* is configured’ for 1st DAI and 3rd DAI in DCI format 0\_1 and DCI format 0\_2. | | | | | | | | |
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| ***Consequences if not approved:*** | | The redundant descriptions may cause uncessary checking whether other meaning is implied. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 7.3.1.1.2, 7.3.1.1.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | |  | | |
| ***affected:*** | |  | **X** | Test specifications | | | |  | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | |  | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

7.3.1.1.2 Format 0\_1

DCI format 0\_1 is used for the scheduling of one or multiple PUSCH in one cell, or indicating CG downlink feedback information (CG-DFI) to a UE.

< Unchanged parts are omitted >

- 1st downlink assignment index – 1, 2 or 4 bits:

- 1 bit for semi-static HARQ-ACK codebook for unicast and multicast if the higher layer parameter *fdmed-Reception-Multicast* is not configured; otherwise for semi-static HARQ-ACK codebook for unicast;

< Unchanged parts are omitted >

- 3rd downlink assignment index – 0, 1 or 2 bits:

- 1 bit for semi-static HARQ-ACK codebook for multicast if the higher layer parameter *fdmed-Reception-Multicast* is configured;

- 2 bits for the dynamic HARQ-ACK codebook for multicast;

- 0 bit otherwise.

< Unchanged parts are omitted >

7.3.1.1.3 Format 0\_2

DCI format 0\_2 is used for the scheduling of PUSCH in one cell.

The following information is transmitted by means of the DCI format 0\_2 with CRC scrambled by C-RNTI or CS-RNTI or SP-CSI-RNTI or MCS-C-RNTI:

< Unchanged parts are omitted >

- Downlink assignment index – 0, 1, 2 or 4 bits

- 0 bit if the higher layer parameter *downlinkAssignmentIndexDCI-0-2* is not configured;

- 1, 2, 3, 4, 5 or 6 bits otherwise,

- 1st downlink assignment index – 1 or 2 bits:

- 1 bit for semi-static HARQ-ACK codebook for unicast and multicast if the higher layer parameter *fdmed-Reception-Multicast* is not configured; otherwise for semi-static HARQ-ACK codebook for unicast;

- 2 bits for dynamic HARQ-ACK codebook for unicast.

- 2nd downlink assignment index – 0 or 2 bits

- 2 bits for dynamic HARQ-ACK codebook with two HARQ-ACK sub-codebooks for unicast;

- 0 bit otherwise.

- 3rd downlink assignment index – 0, 1 or 2 bits

- 1 bit for semi-static HARQ-ACK codebook for multicast if the higher layer parameter *fdmed-Reception-Multicast* is configured;

- 2 bits for the dynamic HARQ-ACK codebook for multicast;

- 0 bit otherwise.

< Unchanged parts are omitted >