**3GPP TSG-RAN WG1 Meeting #110bis R1-22xxxx**

**e-Meeting, October 10th – 14th, 2022**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **38.213** | **CR** | **DRAFT** | **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 PDCCH monitoring when overlapping with the rate matching pattern to TS 38.213 | | | | | | | | | |
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| ***Source to WG:*** | Moderator (CMCC), Qualcomm Incorporated, Huawei, HiSilicon, CBN, MediaTek | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** |  | | | | |  | ***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)* | |
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| ***Reason for change:*** | | It is separately specified that when overlapping with the RateMatchPattern configured for unicast, the UE does not monitor the PDCCH candidate with DCI format for unicast; and when overlapping with the RateMatchPattern configured for multicast, the UE does not monitor the PDCCH candidate with DCI format for multicast.  However,   * it is not clear whether monitoring the PDCCH candidate with DCI format for unicast when overlapping with the RateMatchPattern configured for multicast or broadcast, * or it is not clear whether monitoring the PDCCH candidate with DCI format for multicast when overlapping with the RateMatchPattern is configured for unicast or broadcast, * or it is not clear whether monitoring the PDCCH candidate with DCI format for broadcast when overlapping with the RateMatchPattern is configured for unicast/multicast/broadcast. | | | | | | | | |
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| ***Summary of change:*** | | Clarify the UE behavior that UE does not monitor PDCCH candidates with DCI format for unicast, multicast or broadcast if overlapping with the REs/RBs of the rate matching pattern configured for unicast, multicast, or broadcast.   * Delate “of PDSCH-Config” and “unicast”. * Delete” If a UE is provided resourceBlocks and symbolsInResourceBlock in RateMatchPattern of PDSCH-Config-Multicast, or if the UE is additionally provided periodicityAndPattern in RateMatchPattern of PDSCH-Config-Multicast, the UE can determine a set of RBs in symbols of a slot that are not available for PDSCH reception scheduled by a multicast DCI format. If a PDCCH candidate that provides a multicast DCI format is mapped to one or more REs that overlap with REs of any RB in the set of RBs in symbols of the slot, the UE does not expect to monitor the PDCCH candidate.” | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | UE behavior is not clear whether to monitor PDCCH candidates with DCI format for unicast, multicast or broadcast when overlapping with the configured rate matching patterns for unicast, multicast, or broadcast. | | | | | | | | |
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| ***Clauses affected:*** | | 18 | | | | | | | | |
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|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

## 10.1 UE procedure for determining physical downlink control channel assignment

< Unchanged parts are omitted >

If a UE is provided *resourceBlocks* and s*ymbolsInResourceBlock* in *RateMatchPattern*, or if the UE is additionally provided *periodicityAndPattern* in *RateMatchPattern*, the UE can determine a set of RBs in symbols of a slot that are not available for PDSCH reception scheduled by a DCI format as described in [6, TS 38.214]. If a PDCCH candidate that provides a DCI format is mapped to one or more REs that overlap with REs of any RB in the set of RBs in symbols of the slot, the UE does not expect to monitor the PDCCH candidate.

A UE does not expect to be configured with *dci-FormatsSL* and *dci-FormatsExt* in a same USS.

< Unchanged parts are omitted >