3GPP TSG-RAN2 Meeting #126 *R2-2405773*

Fukuoka, Japan, 20 – 24 May 2024

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **38.300** | **CR** | **0864** | **rev** | **1** | **Current version:** | **18.1.0** |  |
|  | | | | | | | | |
| *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:*** | Clarifications for MBS RedCap CFR | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson, CATT, ZTE | | | | | | | | | |
| ***Source to TSG:*** | R2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI18, NR\_MBS-Core, NR\_redcap-Core, NR\_redcap\_enh-Core | | | | |  | ***Date:*** | | | 2024-05-22 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19) Rel-20 (Release 20)* | |
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| ***Reason for change:*** | | The following RAN2 agreements for MBS RedCap CFR have not been captured in the specifications:   * **The UE only monitors one CFR at a time, i.e. it monitors the RedCap CFR if configured, otherwise the default CFR if the BW of the default CFR is within UE capability limit.** * **Network shall ensure that the UE doesn’t receive DCIs targeting different CFR for same GRNTI.**   To resolve this issue it was agreed:   * **Capture in 38.300 that a UE only monitors one CFR at a time. A RedCap UE monitors the RedCap CFR, if configured, otherwise the default CFR if the bandwidth of the default CFR is within the UE capability** (see [R2-2403548](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_125bis/Docs//R2-2403548.zip))**.** * **Network shall ensure that the UE doesn’t receive DCIs targeting different CFR for same GRNTI** (see [R2-2402283](http://www.3gpp.org/ftp//tsg_ran/WG2_RL2/TSGR2_125bis/Docs//R2-2402283.zip))**.** | | | | | | | | |
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| ***Summary of change:*** | | The following clarification is added to section 16.10.6.6. Physical Layer for MBS broadcast:  The NG-RAN node may configure an additional RedCap CFR when the bandwidth of the configured default CFR exceeds the (e)RedCap UE capability. A UE only monitors one CFR at a time. An (e)RedCap UE monitors the RedCap CFR, if configured, otherwise the (e)RedCap UE monitors the default CFR, if the bandwidth of the default CFR is within the UE capability. The NG-RAN node ensures that a UE does not receive two DCIs simultaneously (i.e., one associated with the RedCap CFR and another associated with the default CFR) with the same G-RNTI or the same MCCH-RNTI. | | | | | | | | |
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| ***Consequences if not approved:*** | | RAN2 agreements for RedCap CFR are not captured in the specifications. | | | | | | | | |
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| ***Clauses affected:*** | | 16.10.6.6 | | | | | | | | |
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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:*** | |  | | | | | | | | |

**<Start of modified section>**

<TEXT OMITTED>

#### 16.10.6.6 Physical Layer

A CFR configured by SIB is defined for broadcast scheduling as an 'MBS frequency region' with a number of contiguous PRBs with a bandwidth equal to or larger than CORESET0, with the same numerology as CORESET0, and broadcast scheduling may have specific characteristics (e.g., PDCCH and PDSCH configurations). The NG-RAN node may configure an additional RedCap CFR when the bandwidth of the configured default CFR exceeds the (e)RedCap UE capability. A UE only monitors one CFR at a time. An (e)RedCap UE monitors the RedCap CFR, if configured, otherwise the (e)RedCap UE monitors the default CFR, if the bandwidth of the default CFR is within the UE capability. The NG-RAN node ensures that a UE does not receive two DCIs simultaneously (i.e., one associated with the RedCap CFR and another associated with the default CFR) with the same G-RNTI or the same MCCH-RNTI.

The maximum number of MIMO layers is one for MBS broadcast scheduling. RB-level rate matching, and RE-level rate matching around LTE-CRS configured by higher layer signalling are supported for MCCH and MTCH. Slot-level repetition is supported for MTCH.

HARQ-ACK feedback is not supported for MBS broadcast.

Only dynamic scheduling is supported for MBS broadcast.

<TEXT OMITTED>

**<End of modified section>**