**3GPP TSG-RAN WG1 # 110bis-eR1-22xxxx**

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

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
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|  | **38.213** | **CR** | **xxxx** | **rev** | **-** | **Current version:** | **17.3.0** |  |
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| *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 CFR configuration for multicast to TS 38.213 |
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| ***Source to WG:*** | Moderator (CMCC), ZTE, CATT |
| ***Source to TSG:*** | R1 |
|  |  |
| ***Work item code:*** | NR\_MBS-Core |  | ***Date:*** | 2022-10-12 |
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| ***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 canbe 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:*** | In NR, at most 4 DL BWPs can be configured for the UE and there is only one active DL BWP for the UE to perform reception at a time. In each DL BWP, a CFR can be configured for MBS. In current TS 38.213, as first part highlighted in red, if *cfr-ConfigMulticast* does not include *locationAndBandwidthMulticast*, the MBS frequency resource is the active DL BWP. However, the agreement is the bandwidth and location of MBS frequency resource should be equal to its associated DL BWP if *cfr-ConfigMulticast* does not include *locationAndBandwidthMulticast.* It is irrelevant to which DL BWP is activated. In addition, the current description seems meaning that the frequency resource of all the 4 CFRs is the active DL BWP if the CFR frequency resource is not configured.

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| A UE can be configured, per DL BWP by *cfr-ConfigMulticast*, an MBS frequency resource within the DL BWP for PDCCH and PDSCH receptions [4, TS 38.211]. If *cfr-ConfigMulticast* does not include *locationAndBandwidthMulticast*, the MBS frequency resource is the active DL BWP. The UE is not required to simultaneously receive PDSCHs on two serving cells. In clauses referring to a higher layer parameter value provided by *PDCCH-Config* or *PDSCH-Config* or *SPS-Config* for a DL BWP, when applicable a corresponding higher layer parameter value for multicast PDCCH, PDSCH, or SPS PDSCH receptions is provided as described in [12, TS 38.331].  |

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| **Agreement**If *locationAndBandwidth-Multicast* is not configured in a *cfr-Config-Multicast*, the default value is the *locationAndBandwidth* of the DL BWP in which the *cfr-Config-Multicast* is configured. |

Regarding the simultaneous reception PDSCHs for MBS, it was agreed that a UE can only receive PDSCH for MBS on one serving cell. It has been captured in TS 38.331 as below, where *cfr-ConfigMulticast* can only be configured within one serving cell. So, it is impossible for a UE to simultaneously receive PDSCHs for MBS on two serving cells. The description in TS 38.213 seems redundant.

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| ***cfr-ConfigMulticast***UE specific common frequency resource configuration for MBS multicast for one dedicated BWP. This field can be configured within at most one serving cell. |

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| ***Summary of change:*** | Delete ‘active’ and ‘The UE is not required to simultaneously receive PDSCHs on two serving cells.’  |
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| ***Consequences if not approved:*** | Incorrect definition on bandwidth and location of the MBS frequency resource in case that *cfr-ConfigMulticast* does not include *locationAndBandwidthMulticast.* |
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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 ...  |
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| ***Other comments:*** | **Isolated impact analysis:**This CR is based on the RAN1 common understanding. |
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| ***This CR's revision history:*** | This is the first version for this CR. |

## **Multicast Broadcast Services**

<Unchanged parts are omitted>

A UE can be configured, per DL BWP by *cfr-ConfigMulticast*, an MBS frequency resource within the DL BWP for PDCCH and PDSCH receptions [4, TS 38.211]. If *cfr-ConfigMulticast* does not include *locationAndBandwidthMulticast*, the MBS frequency resource is the ~~active~~ DL BWP. ~~The UE is not required to simultaneously receive PDSCHs on two serving cells.~~ In clauses referring to a higher layer parameter value provided by *PDCCH-Config* or *PDSCH-Config* or *SPS-Config* for a DL BWP, when applicable a corresponding higher layer parameter value for multicast PDCCH, PDSCH, or SPS PDSCH receptions is provided as described in [12, TS 38.331].

<Unchanged parts are omitted>