**3GPP TSG-RAN WG1 Meeting #110bis-eR1-221xxxx**

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

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| *CR-Form-v12.1* | | | | | | | | |
| **DRAFT CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.214** | **CR** |  | **rev** | **1** | **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:*** | On joint DLUL TCI state update in unified TCI framework | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Moderator(ZTE), CATT | | | | | | | | | |
| ***Source to TSG:*** | RAN1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_newRAT-Core | | | | |  | ***Date:*** | | | 2022-07-29 |
|  |  | | | |  | |  | | |  |
| ***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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
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| ***Reason for change:*** | | In RAN1 #106b-e meeting, it was agreed that the largest number of configured TCI states for joint DL/UL TCI state is 128 per BWP per CC for Rel-17 unified TCI framework, the “per BWP” should be captured in the spec.   |  | | --- | | ***Agreement***  *On Rel.17 unified TCI framework, for Rel-17 unified TCI, the largest number of configured TCI states is given as follows (following Rel-15/16 principles):*   * *When a UE is configured with joint DL/UL TCI: the largest number of configured TCI states for joint DL/UL TCI state update is 128 per BWP per CC* | | | | | | | | | |
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| ***Summary of change:*** | | In section 5.1.5 of TS 38.214, *complement the “per BWP”* description in the largest number of configured TCI states for Rel-17 unified TCI. | | | | | | | | |
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| ***Consequences if not approved:*** | | The maximum number of TCI states per BWP per CC in the spec is unclear for the network to configure. | | | | | | | | |
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| ***Clauses affected:*** | | 5.1.5 | | | | | | | | |
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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:*** | | This is the first version for this CR. | | | | | | | | |

#### 5.1.5 Antenna ports quasi co-location

===================== Unchanged parts =====================

The UE can be configured with a list of up to *128* *DLorJointTCIState* configurations, within the higher layer parameter *PDSCH-Config* for providing a reference signal for the quasi co-location for DM-RS of PDSCH and DM-RS of PDCCH in a BWP/CC, for CSI-RS, and to provide a reference, if applicable, for determining UL TX spatial filter for dynamic-grant and configured-grant based PUSCH and PUCCH resource in a BWP/CC, and SRS.

===================== Unchanged parts =====================