**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** |  |
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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:***  | On joint DLUL TCI state update in unified TCI framework |
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| ***Source to WG:*** | Moderator(ZTE), CATT |
| ***Source to TSG:*** | RAN1 |
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| ***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 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-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.

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| ***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 ...  |
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| ***Other comments:*** |  |
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| ***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 =====================