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

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

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **38.214** | **CR** | **DRAFT** | **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:***  | Correction on frequency resource for CSI-RS for tracking in TS 38.214 |
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| ***Source to WG:*** | Moderator (vivo), ZTE, Sanechips |
| ***Source to TSG:*** | R1 |
|  |  |
| ***Work item code:*** | NR\_ext\_to\_71GHz |  | ***Date:*** | 2022-10-14 |
|  |  |  |  |  |
| ***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:*** | 1. Rel-16 NR-U supports wide-band operation and it can perform LBT and subsequent transmission in one or more RB sets. The size of each RB set is from 50 to 55/56 RBs. So Rel-16 NR-U defines a range for *freqBand* configuration for CSI-RS that is different from licensed spectrum operation. However, Rel-17 FR2-2 NR-U does not support wide-band operation and corresponding RB set, thus it is unnecessary for shared and licensed spectrum operation in FR2-2 to define different ranges for *freqBand* configuration for CSI-RS.
2. Editorial error
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| ***Summary of change:*** | 1. For shared and licensed spectrum operation in FR2-2, the ranges for *freqBand* configuration for CSI-RS are the same.2. Correct an editorial error |
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| ***Consequences if not approved:*** | Unnecessary restriction for CSI-RS frequency resource configuration for shared spectrum operation in FR2-2 |
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| ***Clauses affected:*** | 5.1.6.1.1 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  |  |
| ***affected:*** |  | **X** |  Test specifications |  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications |  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

##### 5.1.6.1.1 CSI-RS for tracking

**<Unchanged parts are omitted>**

- if carrier $N\_{grid}^{size,μ}=52$, $N\_{BWP,i}^{size}=52$, $μ=0$ and the carrier is configured in paired spectrum, the bandwidth of the CSI-RS resource, as given by the higher layer parameter *freqBand* configured by *CSI-RS-ResourceMapping*, is *X* resource blocks, where $X \geq 28$ resource blocks if the UE indicates *trs-AddBW-Set1* for the *trs-AdditionalBandwidth* capability for CSI-RS for tracking or *addBW-Set1* for the *aperiodicCSI-RS*-*AdditionalBandwidth* capability for aperiodic CSI-RS for fast SCell activation and $X \geq 32$ if the UE indicates *trs-AddBW-Set2* for the *AdditionalBandwidth* capability for CSI-RS for tracking or *addBW-Set2* for the *aperiodicCSI-RS*-*AdditionalBandwidth* capability for aperiodic CSI-RS for fast SCell activation; in these cases, if the UE is configured with CSI-RS comprising X<52 resource blocks, the UE does not expect that the total number of PRBs allocated for DL transmissions but not overlapped with the PRBs carrying CSI-RS for tracking is more than 4, where all CSI-RS resource configurations shall span the same set of resource blocks; otherwise, the bandwidth of the CSI-RS resource, as given by the higher layer parameter *freqBand* configured by *CSI-RS-ResourceMapping*, is the minimum of 52 and $N\_{BWP,i}^{size}$ resource blocks, or is equal to $N\_{BWP,i}^{size}$ resource blocks. For operation with shared spectrum channel access in FR1, *freqBand* configured by *CSI-RS-ResourceMapping*, is the minimum of 48 and $N\_{BWP,i}^{size}$ resource blocks, or is equal to $N\_{BWP,i}^{size}$ resource blocks.

**<Unchanged parts are omitted>**