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

**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** |  |
|  |
| *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 invalid symbol determination for PUSCH repetition type B for HD-FDD  |
|  |  |
| ***Source to WG:*** | Moderator (Ericsson), [vivo, Sharp, Intel, Nokia, Nokia Shanghai Bell, …] |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** | NR\_redcap-Core |  | ***Date:*** | 2022-10-17 |
|  |  |  |  |  |
| ***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:*** | Following agreements have not been captured in the specification.Agreement: For a HD-UE in paired spectrum and for PUSCH repetition type B transmission* + Symbols that are not at least before the first symbol or not at least  after the last symbol in the set of symbols with SSB transmission are considered as invalid symbols for PUSCH repetition type B transmission

The email discussion about this CR is captured as Issue #5 in R1-2210247. |
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| ***Summary of change:*** | Capture HD-FDD RedCap UE behavior on invalid symbol determination for PUSCH repetition type B in TS 38.214 clause 6.1.2.1. |
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| ***Consequences if not approved:*** | There is mismatch between the specification and agreement. |
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| ***Clauses affected:*** | 6.1.2.1 |
|  |  |
|  | **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:*** |  |

#### 6.1.2.1 Resource allocation in time domain

<< Unchanged text is omitted >>

For PUSCH repetition Type B, the UE determines invalid symbol(s) for PUSCH repetition Type B transmission as follows:

- A symbol that is indicated as downlink by *tdd-UL-DL-ConfigurationCommon* or *tdd-UL-DL-ConfigurationDedicated* is considered as an invalid symbol for PUSCH repetition Type B transmission.

- For operation in unpaired spectrum, symbols indicated by *ssb-PositionsInBurst* in SIB1 or *ssb-PositionsInBurst* in *ServingCellConfigCommon* for reception of SS/PBCH blocks are considered as invalid symbols for PUSCH repetition Type B transmission.

- For a reduced capability half-duplex UE in paired spectrum, symbols that do not start or end at least  or , respectively, from the last or first symbol of an SS/PBCH block with index indicated by *ssb-PositionsInBurst* in SIB1 or *ssb-PositionsInBurst* in *ServingCellConfigCommon* or by *NonCellDefiningSSB* for reception of SS/PBCH blocks are considered as invalid symbols for PUSCH repetition Type B transmission.

- For operation in unpaired spectrum, symbol(s) indicated by *pdcch-ConfigSIB1* in *MIB* for a CORESET for Type0-PDCCH CSS set are considered as invalid symbol(s) for PUSCH repetition Type B transmission.

<< Unchanged text is omitted >>