**3GPP TSG RAN WG1 #103-e R1-200xxxx**

**e-Meeting, October 26th – November 13th, 2020**

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| *CR-Form-v12.0* |
| **Draft CHANGE REQUEST** |
|  |
|  | **3** | **CR** |  | **rev** |  | **Current version:** |  |  |
|  |
| *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 to 38.213 on NR-U 2-step RACH PO configuration |
|  |  |
| ***Source to WG:*** | Moderator (Qualcomm) |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** | NR\_unlic-Core |  | ***Date:*** | 2020-11-05 |
|  |  |  |  |  |
| ***Category:*** | F |  | ***Release:*** | Rel-16 |
|  | *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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
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| ***Reason for change:*** | Restrict the RO/PO of 2-step RACH to be within one RB set for NR-U |
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| ***Summary of change:*** | -Restrict the RO/PO of 2-step RACH to be within one RB set for NR-U.-When interlaced waveform for MsgA PUSCH is used, clarify the RB set used for PRACH is the RB set used for interlace definition |
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| ***Consequences if not approved:*** | Not clear which RB set is used when interlaced waveform is used for msgA PUSCH. Not clear how to define the PO resources across multiple RB sets. |
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| ***Clauses affected:*** | 8.1A |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **x** |  Other core specifications  |  |
| ***affected:*** |  |  |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  |  |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

8.1A PUSCH for Type-2 random access procedure

==unchanged text omitted========

A UE determines a first interlace or first RB for a first PUSCH occasion in an active UL BWP respectively from *interlaceIndexFirstPO-MsgA-PUSCH* or from *frequencyStartMsgA-PUSCH* that provides an offset, in number of RBs in the active UL BWP, from a first RB of the active UL BWP. A PUSCH occasion includes a number of interlaces or a number of RBs provided by *nrofInterlacesPerMsgA-PO* or by *nrofPRBs-perMsgA-PO*, respectively. Consecutive PUSCH occasions in the frequency domain of an UL BWP are separated by a number of RBs provided by *guardBandMsgA-PUSCH*. A number $N\_{f} $of PUSCH occasions in the frequency domain of an UL BWP is provided by *nrofMsgA-PO-FDM*.

For operation with shared spectrum channel access, if the PUSCH occasion is provided by higher layer parameters *frequencyStartMsgA-PUSCH* and *nrofPRBs-perMsgA-PO*, the UE expects a PUSCH occasion to be confined within the same RB set as the corresponding PRACH transmission.

For operation with shared spectrum channel access, if the PUSCH occasion is provided by higher layer parameters *interlaceIndexFirstPO-MsgA-PUSCH* and *nrofInterlacesPerMsgA-PO*, the RB set for the PUSCH occasion in the active UL BWP is the same RB set as the corresponding PRACH transmission. The UE assumes that the RB set is defined as when the UE is not provided *intraCellGuardBandsPerSCS* for an UL carrier as described in Clause 7 of [6, TS 38.214].

==unchanged text omitted========