**3GPP TSG-RAN WG1 Meeting #105-e *R1-21xxxxx***

**E-meeting, May 10 – May 27, 2021**

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| *CR-Form-v12.0* |
| **DRAFT CHANGE REQUEST** |
|  |
|  | **38.213** | **CR** |  | **rev** | **-** | **Current version:** | **16.5.0** |  |
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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:***  | Handling collision between PUCCH/PUSCH and semi-static DL symbols and SSBs |
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| ***Source to WG:*** | Moderator (Qualcomm), Samsung, Nokia, DOCOMO |
| ***Source to TSG:*** | RAN1 |
|  |  |
| ***Work item code:*** | NR\_L1enh\_URLLC-Core |  | ***Date:*** | 2021-5-26 |
|  |  |  |  |  |
| ***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:*** | This CR is to capture the agreement made in RAN1 #104e for handling collisions with SSB and DL symbols and intra-UE multiplexing, for two additional scenarios 1) the PUCCH/PUSCH are configured channels and 2) all PUCCH/PUSCH are of the same priority. These scenarios were missed from the current specification. **Agreement**To address collision with semi-static DL symbols and SSB, the following easy way is suggested:* Step1: Perform intra UE prioritization (including multiplexing, overriding) according to related working assumption in 102 e-meeting and produce final PUCCHs/PUSCHs.

Step 2: Final PUCCHs/PUSCHs is cancelled by semi-static DL symbols and SSB symbols. |
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| ***Summary of change:*** | To capture the UE behavior that handling of collisions with semi-static DL symbols and SSBs is done after applying intra-UE mulitplexing/prioritization for the scenarios where 1) the PUCCH/PUSCH are configured channels and 2) all PUCCH/PUSCH are of the same priority.  |
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| ***Consequences if not approved:*** | Potential misunderstanding between gNB and UE as it would not be clear whether the UE would apply the handling of collisions with SSB and DL symbols before or after intra-UE mulitplexing/prioritization for the two scenarios listed above.  |
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| ***Clauses affected:*** | 9 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  |  |
| ***affected:*** |  | **X** |  Test specifications |  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications |  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

-----------------------------------------------Start of Text Proposal ------------------------------------------------

9          UE procedure for reporting control information

\*\*\*Unchanged parts are omitted\*\*\*

When a UE determines overlapping for PUCCH and/or PUSCH transmissions of different priority indexes other than PUCCH transmissions with SL HARQ-ACK reports before considering limitations for UE transmission as described in clause 11.1, including repetitions if any, the UE first resolves the overlapping for PUCCH and/or PUSCH transmissions of smaller priority index as described in Clauses 9.2.5 and 9.2.6.

\*\*\*Unchanged parts are omitted\*\*\*

In the remaining of this Clause, a UE multiplexes UCIs with same priority index in a PUCCH or a PUSCH before considering limitations for UE transmission as described in clause 11.1. A PUCCH or a PUSCH is assumed to have a same priority index as a priority index of UCIs a UE multiplexes in the PUCCH or the PUSCH.

\*\*\* Unchanged text is omitted \*\*\*

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