**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** | | | | | | | | |
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|  | **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 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***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 can be 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 | | | | | | | | |
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|  | | **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 \*\*\*

----------------------------------------------------- End of text proposal ----------------------------------------------------