**3GPP TSG-RAN WG1 Meeting #106-e *R1-21xxxxx***

**E-meeting, Aug 16th – 27th, 2021**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **38.213** | **CR** |  | **rev** | **-** | **Current version:** | **16.6.0** |  |
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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 overlapping between SPS HARQ-ACK with HP and SP HARQ-ACK with LP |
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| ***Source to WG:*** | Moderator(Huawei), HiSilicon, Ericsson |
| ***Source to TSG:*** | R1 |
|  |  |
| ***Work item code:*** | NR\_L1enh\_URLLC-Core |  | ***Date:*** | 2021-8-19 |
|  |  |  |  |  |
| ***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:*** | According to the agreements from the RAN1 #101-e meeting, the UE is required to handle collisions between a high priority configured UL transmission and low priority channels for the listed cases 1-4.***Agreement****At least for handling collision between a high priority configured UL transmission and low priority channels in the following cases, it is up to UE implementation to ensure that the low priority UL transmission is cancelled, at the latest, from the first symbol that is overlapping with the high priority UL transmission:** *Case 1: Collision between a high priority SR PUCCH and any low priority channels*
* *Case 2: Collision between a high priority CG-PUSCH and a low priority PUCCH*
* *Case 3: Collision between a high priority PUCCH carrying only HARQ-ACK corresponding to PDSCH without corresponding PDCCH and any low priority configured uplink transmission.*
* *Case 4: Collision between a high priority PUSCH carrying SP-CSI, except the first PUSCH after the activation DCI, and a low priority PUCCH*

For case 3, for low priority configured uplink transmission, SPS HARQ-ACK with low priority is omitted in the current spec. This CR corrects the specification by including this missing case. |
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| ***Summary of change:*** | Add the missing case 3 for UE’s collision handling between a high priority configured UL transmission and low priority channels. |
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| ***Consequences if not approved:*** | Specification is not aligned with the agreement.  |
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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 |  |
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| ***Other comments:*** | **Isolated impact analysis:**This CR has isolated impact. It is expected that the gNB and UE have been implemented in accordance to the CR. |
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| ***This CR's revision history:*** |  |

# 9 UE procedure for reporting control information

< Unchanged parts are omitted >

If a UE would transmit the following channels, including repetitions if any, that would overlap in time

- a first PUCCH of larger priority index with SR and a second PUCCH or PUSCH of smaller priority index, or

- a configured grant PUSCH of larger priority index and a PUCCH of smaller priority index, or

- a first PUCCH of larger priority index with HARQ-ACK information only in response to PDSCH(s) reception without corresponding PDCCH(s) and a second PUCCH of smaller priority index with HARQ-ACK information only in response to PDSCH(s) reception without corresponding PDCCH(s), or a second PUCCH of smaller priority index with SR and/or CSI, or a configured grant PUSCH with smaller priority index, or a PUSCH of smaller priority index with SP-CSI report(s) without a corresponding PDCCH, or

 - a PUSCH of larger priority index with SP-CSI reports(s) without a corresponding PDCCH and a PUCCH of smaller priority index with SR, or CSI, or HARQ-ACK information only in response to PDSCH(s) reception without corresponding PDCCH(s), or

- a configured grant PUSCH of larger priority index and a configured PUSCH of smaller priority index on a same serving cell

< Unchanged parts are omitted >