**3GPP TSG- Meeting # *XXXX***

**e-Meeting, April 12th – 20th, 2021**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **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:*** |  | | | | | | | | | |
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| ***Source to WG:*** | Moderator(Nokia), Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_unlic-Core | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***Release:*** | | |  |
|  | *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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
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| ***Reason for change:*** | | Description for UL Type 2 channel access does not address the case where a single DCI schedules transmission on multiple channels. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Clarify that the Type 2 channel access procedures apply to PUSCH transmissions spanning multiple channels as well. | | | | | | | | |
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| ***Consequences if not approved:*** | | Unclear channel access behaviour for the case when a PUSCH transmission spans multiple channels. | | | | | | | | |
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| ***Clauses affected:*** | | 4.2.1.0.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

**<Unchanged parts are omitted>**

4.2.1.0.3 Conditions for indicating Type 2 channel access procedures

An eNB/gNB may indicate Type 2 channel access procedures in the DCI of a UL grant or DL assignment scheduling transmission(s) including PUSCH on one or more channels or PUCCH on a channel, respectively, as follows:

If the UL transmissions occur within the time interval starting at and ending at , where

- ,

- is the time instant when the eNB/gNB has started transmission on the carrier according to the channel access procedure described in clause 4.1.1,

- value is determined by the eNB/gNB as described in clause 4.1.1,

- is the total duration of all gaps of duration greater than that occur between the DL transmission of the eNB/gNB and UL transmissions scheduled by the eNB/gNB, and between any two UL transmissions scheduled by the eNB/gNB starting from ,

then,

- the eNB/gNB may indicate Type 2 channel access procedures in the DCI if the eNB/gNB has transmitted on the channel(s) according to the channel access procedures described in clause 4.1.1 or the multi-channel access procedures in clause 4.1.6, or

- the eNB may indicate using the 'UL duration and offset' field that the UE may perform a Type 2 channel access procedure for transmissions(s) including PUSCH on a channel in a subframe when the eNB has transmitted on the channel according to the channel access procedure described in clause 4.1.1, or

- the eNB may indicate using the 'UL duration and offset' field and 'COT sharing indication for AUL' field that a UE configured with autonomous UL may perform a Type 2 channel access procedure for autonomous UL transmissions(s) including PUSCH on a channel in subframe when the eNB has transmitted on the channel according to the channel access procedure described in clause 4.1.1 and acquired the channel using the largest priority class value and the eNB transmission includes PDSCH, or

- the eNB/gNB may schedule UL transmissions on a channel, that follow a transmission by the eNB/gNB on that channel with Type 2A channel access procedures for the UL transmissions as described in clause 4.2.1.2.1 after a duration of .

The eNB/gNB shall schedule UL transmissions between and without gaps between consecutive UL transmissions if they can be scheduled contiguously. For a UL transmission on a channel that follows a transmission by the eNB/gNB on that channel using Type 2A channel access procedures as described in clause 4.2.1.2.1, the UE may use Type 2A channel access procedure for the UL transmission.

If the eNB/gNB indicates Type 2 channel access procedure for the UE in the DCI, the eNB/gNB indicates the channel access priority class used to obtain access to the channel in the DCI.

For indicating a Type 2 channel access procedure, if the gap is at least , or equal to , or up to , the gNB may indicate Type 2A, or Type 2B, or Type 2C UL channel procedures, respectively, as described in clauses 4.2.1.2.

**<Unchanged parts are omitted>**