**3GPP TSG-RAN WG2 Meeting #119bis-e *R2-220xxxx***

**Electronic, 10th – 19th October 2022**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **38.321** | **CR** | **1399** | **rev** | **3** | **Current version:** | **17.2.0** |  |
|  | | | | | | | | |
| *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 FR2 UL gap | | | | | | | | | |
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| ***Source to WG:*** | Apple | | | | | | | | | |
| ***Source to TSG:*** | R2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_RF\_FR2\_req\_enh2 | | | | |  | ***Date:*** | | | 2022-09-21 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | F |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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:*** | | RAN4 has made further agreements on the allowed UL transmission during FR2 UL gap. RAN2 spec should be updated accordingly to align. | | | | | | | | |
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| ***Summary of change:*** | | Capture the detailed UE behavior on allowed UL transmission during FR2 UL gap.  **Impact analysis**  **Impacted 5G architecture options:**  NR SA, (NG)EN-DC, NR-DC, NE-DC  **Impacted functionality**  FR2 UL Gap  **Inter-operability:**  If the NW implements the CR while UE does not, UE may not send UL transmission that network expects .  If the UE implements the CR while NW does not, NW may not expect the UL transmission during FR2 UL gap. | | | | | | | | |
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| ***Consequences if not approved:*** | | RAN2 spec on the allowed UL transmission during FR2 UL gap is not aligned with TS 38.133. | | | | | | | | |
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| ***Clauses affected:*** | | 5.30 | | | | | | | | |
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|  | | **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:*** | |  | | | | | | | | |

---------------------------------------------<Start of of 1st change>----------------------------------------

## 5.30 Handling of FR2 UL gap

During the FR2 UL gap configured by *ul-GapFR2-Config* as specified in TS 38.331 [5], the MAC entity shall, on the Serving Cell(s) of FR2 single CC and intra-band CA, or on the Serving Cell(s) of FR2 inter-band CA where UE does not support *tx-Support-UL-GapFR2-r17*:

1> only perform transmission of :

2> PRACH preamble as specified in clause 5.1.2 and 5.1.2a;

2> UL-SCH for Msg3 or the MSGA payload as specified in clause 5.4.2.2;

2> UL-SCH for configured grant;

2> the valid CSI report during SCell activation procedure where the valid CSI report is valid CQI with non-zero CQI index defined in TS 38.214 [7], clause 5.2.2.1, when the time period between UL gap colliding with CSI report of non-zero CQI and the slot where the SCell activation MAC CE or CSI report activation command is received is no less than 10ms;

2> the valid L1 RSRP report during SCell activation procedure, where the valid L1 RSRP report is non lowest L1 RSRP defined in TS 38.133 [11], clause 10.1.6, when the time period between UL gap colliding with L1 RSRP reporting and the slot where the SCell activation MAC CE or CSI report activation command is received is no less than 10ms;

~~2> the UE need not apply UL gap prioritization rules specified above for SCell activation procedure if the time period between UL gap colliding with CSI report of non-zero CQI or L1-RSRP and the slot where the SCell activation MAC CE or CSI report activation command is received is less than 10ms;~~

2> the PUCCH transmission for SR, and link recovery request (LRR) defined in TS 38.133 [11], clause 8.5.

-----------------------------------------------<End of change>--------------------------------------------------