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

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.321** | **CR** | **1399** | **rev** | **2** | **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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network | **X** | Core Network |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Correction on FR2 UL gap | | | | | | | | | |
|  |  | | | | | | | | | |
| ***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)* | |
|  |  | | | | | | | | | |
| ***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. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Capture the detailed UE behavior on allowed UL transmission during FR2 UL gap.  **Impact analysis**  **Impacted 5G architecture options:**  (NG)EN-DC, NR-DC, NE-DC  **Impacted functionality**  FR2 UL Gap  **Inter-operability:**  If the NW implements the CR while UE does not, no inter-operability occurs.  If the UE implements the CR while NW does not, NW may not expect the UL transmission during FR2 UL gap. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | RAN2 spec on the allowed UL transmission during FR2 UL gap is not aligned with TS 38.133. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.30 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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

## 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 UL transmission within FR2 UL gap:

1> not conduct any transmission other than:

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;

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;

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>--------------------------------------------------