**3GPP TSG-RAN4 Meeting #102-e *R4-2206511***

**Electronic Meeting, Feb 21** **– Mar 03, 2022**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.133** | **CR** | **XXXX** | **rev** | **-** | **Current version:** | **17.0.0** |  |
|  | | | | | | | | |
| *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 |  | Core Network |  |

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| ***Title:*** | CR on ... | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Apple | | | | | | | | | |
| ***Source to TSG:*** | RAN4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_RF\_FR2\_req\_enh2 | | | | |  | ***Date:*** | | | 2022-01-07 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***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:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | | **X** |  | Test specifications | | | |  | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

Start of Change 1

#### **9.1.7 UL gap for Tx power management**

The UL gap pattern are listed in Table 9.1.7 if UE supports the UL gap for Tx power management. UE shall support at east one of gap configuration #1 and #3. UE could support gap configuration #0 and #2.

Table 9.1.7: UL Gap Pattern Configurations

|  |  |  |
| --- | --- | --- |
|  | UL Gap Length (UGL) [ms] | UL gap repetition periodicity (UGRP) [ms] |
| ULGP #0 | 1.0 | 20 |
| ULGP #1 | 1.0 | 40 |
| ULGP #2 | 0.5 | 160 |
| ULGP #3 | 0.125 when SCS of active UL BWP =120kHz  0.25 when SCS of active UL BWP =60kHz | 5 |

Uplink gap consists of consecutive static UL slots, defined by *nrofUplinkSlots* in one or more *TDD-UL-DL-Pattern* duration. UGL is the aggregated length of UL slots used as UL gap, as shown in the figure 9.1.7 with a *TDD-UL-DL-Pattern* of “DDDSU”.



Fig. 9.1.7 UL gap with 1ms UGL over a *TDD-UL-DL-Pattern* of “DDDSU”.

During the UL gaps, the UE is not required to conduct transmission to the corresponding NR serving cells in FR2 single CC, intra-band CA, or based on UE capability whether UL transmission within a gap is feasible for inter-band FR2-FR2 CA/DC except the signals used for random access procedure according to TS 38.321.

End of Change 1