**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 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-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 least one of UL MGP#1 and UL MGP#3]. All other UL MGPs are optional.

Table 9.1.7: UL Gap Pattern Configurations

|  |  |  |
| --- | --- | --- |
|   | UL Gap Length (UGL) [ms]  | UL gap repetition periodicity (UGRP) [ms]  |
| UL MGP #0  | 1.0  | 20  |
| UL MGP #1  | 1.0  | 40  |
| UL MGP #2  | 0.5  | 160  |
| UL MGP #3 | 0.125 when SCS of active UL BWP =120kHz0.25 when SCS of active UL BWP =60kHz | 5 |

Uplink gap consists of ~~consecutive~~ succeeding static UL slot(s), defined by *nrofUplinkSlots* in one or more *TDD-UL-DL-Pattern* duration, starting from the first static UL slot of an UL gap repetition period. There can be DL slot and/or special slot but no static UL slot between two succeeding static UL slots within an UL gap repetition period. UGL is the aggregated length of UL slots used as UL gap within an UL gap repetition period. ~~, as shown in the figure 9.1.7 with a~~ *~~TDD-UL-DL-Pattern~~* ~~of “DDDSU”.~~

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

During UL gaps, except for the signals used for random access procedure according to TS 38.321 *[and for the signals used for other RAN4 agreed procedures]*, UE is not required to conduct transmission to the corresponding NR serving cells in FR2 single CC, intra-band CA. For inter-band FR2-FR2 CA/DC, UE may or may not be required to conduct transmission to the corresponding NR serving cells based on UE capability whether UL transmission within a gap is feasible.

End of Change 1