**3GPP TSG-RAN WG4 Meeting #103-e *R4-2207510***

**Electronic Meeting, May 09 – May 20, 2022**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.827** | **CR** | **Number** | **rev** |  | **Current version:** | **16.6.0** |  |
|  | | | | | | | | |
| *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:*** | Big CR to TR 38.827 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | MCC, vivo | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | FS\_NR\_MIMO\_OTA\_test | | | | |  | ***Date:*** | | | 2022-04-14 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)*  *Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | In TR 38.827, the UE mechanical mode for FR1 and FR2 MIMO OTA test procedure is missing. | | | | | | | | |
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| ***Summary of change:*** | | Update the test configuration with primary mechanical mode for data mode usage. | | | | | | | | |
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| ***Consequences if not approved:*** | | MIMO OTA testing for UE supports multiple mechanical modes can not be correctly performed. | | | | | | | | |
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| ***Clauses affected:*** | | 4.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 change 1>

## 4.2 Testing configuration

Utilizing the free space (FS) testing configuration is the first priority. A second priority is the study of head/hand/body blocking and its impact on test methods – this will be in collaboration with CTIA who plan to study these aspects.

NR MIMO OTA testing should be performed under primary mechanical mode of UE for data mode usage. The primary mechanical mode for data mode usage for devices having multiple mechanical modes shall be declared by the manufacturers. Single primary mechanical mode for each device should be declared to test labs for NR MIMO OTA.

< end of change 1>