**3GPP TSG- Meeting #111**

**, , - , May, 2024**

|  |
| --- |
| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **1-2** | **CR** |  | **rev** |  | **Current version:** |  |  |
|  |
| *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 |  | Radio Access Network | **X** | Core Network |  |

|  |
| --- |
|  |
| ***Title:***  |  |
|  |  |
| ***Source to WG:*** |  |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** |  |  | ***Release:*** |  |
|  | *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-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
|  |  |
| ***Reason for change:*** | In Rel-18 Coverage enhancement WI, it was agreed to introduce the PRACH requirement with multiple repetition transmission. The draft big CR R4-2404390 was endorsed in the RAN4#110bis,  |
|  |  |
| ***Summary of change:*** | Add the PRACH requirement with multiple repetition transmission in section of 8.4.1.8* Remove the test requirement for BS type 1-O
* Update the table index in section of 8.4.1.8.1
* Editorial update for the table titles
 |
|  |  |
| ***Consequences if not approved:*** | The performance requirement for PRACH with multiple repetition transmission can not be verified well |
|  |  |
| ***Clauses affected:*** | 8.4.1 |
|  |  |
|  | **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:*** | Based on draft big CR R4-2404390 endorsed in RAN4#110bis meeting |
|  |  |
| ***This CR’s revision history:*** | Revison of R4-2409473 |

<Start of Change>

#### 8.4.1.8 Test requirement for PRACH with repetition transmission

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

##### 8.4.1.8.1 Test requirement for *BS type 2-O*

Pfa shall not exceed 0.1%. Pd shall not be below 99% for the SNRs in tables 8.4.1.8.1-1

Table 8.4.1.8.1-1: PRACH missed detection test requirements with repetition transmission, 120 kHz SCS in FR2-1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Number of  | Number of | Propagation | Frequency | Number of Repetitions | SNR (dB) |
| TX antennas | demodulation branches | conditions and correlation matrix (Annex J) | offset | Burst format A2 | Burst format B4 | Burst format C2 |
| 1 | 2 | TDLA30-300 Low | 4000 Hz | 2 | TBD | [-11.4] | TBD |
| Note : This requirement has no limitation for PRACH configuration index selection for BS comformance testing |

<End of Change>