**3GPP TSG-RAN WG4 Meeting # 98-bis-e R4-2105756**

**Electronic Meeting 12th April– 20th April 2021**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **38.133** | **CR** | **DraftCR** | **rev** | **1** | **Current version:** | **16.7.0** |  |
|  |
| *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 |  | Radio Access Network | **X** | Core Network |  |

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| --- |
|  |
| ***Title:***  |  gNB SRS-RSRP measurement accuracy |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | R4 |
|  |  |
| ***Work item code:*** | NR\_pos-Perf |  | ***Date:*** | 2021-04-02 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***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 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:*** | gNB SRS-RSRP measurement accuracy requirements are missing |
|  |  |
| ***Summary of change:*** | gNB SRS-RSRP measurement accuracy requirements are added |
|  |  |
| ***Consequences if not approved:*** | gNB Positioning would not be complete without measurement accuracy definition |
|  |  |
| ***Clauses affected:*** | 13.3.2, 13.3.2.1, 13.3.2.2 |
|  |  |
|  | **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:*** | This is a revision of previously endorsed draft CR R4-2104052 |

**----------------------START OF CHANGES----------------------------**

### 13.3.2 Measurement accuracy requirements

#### 13.3.2.1 Introduction

This clause defines accuracy requirements for SRS-RSRP measurement in FR1 and FR2. The requirements are applicable for gNB supporting SRS-RSRP measurement.

#### 13.3.2.2 Requirements

The accuracy requirements in Table 13.3.2.2-1, Table 13.3.2.2-2, Table 13.3.2.2-3 and Table 13.3.2.2-4 are valid under the following conditions:

* AWGN propagation conditions.

*Editor’s note: further conditions are FFS.*

*Editor’s note: SRS bandwidth is TBD. The needed number of bandwidth ranges for which specific SRS-RSRP measurement accuracy apply for given Ês/Iot side condition is FFS*

*Editor’s note: The dependency of SRS-RSRP measurement accuracy on SRS CombSize and SRS SymbolSize is FFS and shall be captured in an updated version of following tables if needed.*Table 13.3.2.2-1 gNB SRS-RSRP absolute accuracy requirements in FR1 type 1-C

|  |  |
| --- | --- |
| Accuracy | Conditions |
| SRS Ês/Iot | SRS bandwidth range |
|
| dB | dB | RB |
| TBD | Ês/Iot ≥ -13 | TBD |
| TBD | TBD |
| TBD | TBD |
| TBD | Ês/Iot ≥ +3 | TBD |
| TBD | TBD |
| TBD | TBD |

Table 13.3.2.2-2 gNB SRS-RSRP absolute accuracy requirements in FR1 type 1-H

|  |  |
| --- | --- |
| Accuracy | Conditions |
| SRS Ês/Iot | SRS bandwidth range |
|
| dB | dB | RB |
| TBD | Ês/Iot ≥ -13 | TBD |
| TBD | TBD |
| TBD | TBD |
| TBD | Ês/Iot ≥ +3 | TBD |
| TBD | TBD |
| TBD | TBD |

Table 13.3.2.2-3 gNB SRS-RSRP absolute accuracy requirements in FR1 type 1-O

|  |  |
| --- | --- |
| Accuracy | Conditions |
| SRS Ês/Iot | SRS bandwidth range |
|
| dB | dB | RB |
| TBD | Ês/Iot ≥ -13 | TBD |
| TBD | TBD |
| TBD | TBD |
| TBD | Ês/Iot ≥ +3 | TBD |
| TBD | TBD |
| TBD | TBD |

Table 13.3.2.2-4 gNB SRS-RSRP absolute accuracy requirements in FR2 type 2-O

|  |  |
| --- | --- |
| Accuracy | Conditions |
| SRS Ês/Iot | SRS bandwidth range |
|
| dB | dB | RB |
| TBD | Ês/Iot ≥ -13 | TBD |
| TBD | TBD |
| TBD | TBD |
| TBD | Ês/Iot ≥ +3 | TBD |
| TBD | TBD |
| TBD | TBD |

**----------------------END OF CHANGES----------------------------**