**3GPP TSG-RAN4 Meeting #97-e *R4-2017154***

**Electronic meeting, Nov. 2-13, 2020**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **38.133** | **CR** | **DraftCR** | **rev** | **1** | **Current version:** | **16.5.0** |  |
|  |
| *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 PRS-RSRP accuracy requirements |
|  |  |
| ***Source to WG:*** | CATT |
| ***Source to TSG:*** | R4 |
|  |  |
| ***Work item code:*** | NR\_pos-Perf |  | ***Date:*** | 2020-10-15 |
|  |  |  |  |  |
| ***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:*** | The performance requirements for PRS-RSRP measurement need to be specified.  |
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| ***Summary of change:*** | Introduce the performance requirements for PRS-RSRP measurement.  |
|  |  |
| ***Consequences if not approved:*** | The performance requirements for PRS-RSRP measurement are missing.  |
|  |  |
| ***Clauses affected:*** | 10.1.24 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  |  |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  |  |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  |  |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

<Start of Change 1>

### 10.1.24 PRS-RSRP Measurements

#### 10.1.24.1 Introduction

The requirements in Clause 10.1.24 shall apply, provided the UE has received *nr-DL-TDOA-RequestLocationInformation* or *nr-Multi-RTT-RequestLocationInformation* or *nr-DL-AoD-RequestLocationInformation* message from LMF via LPP [34] requesting the UE to report one or more DL PRS-RSRP measurements defined in TS 38.215 [4].

#### 10.1.24.2 Measurement Accuracy Requirements

Editor’s note: FFS: The requirements applicability for different *DL-PRS-ResourceRepetitionFactor* and *dl-PRS-NumSymbols* configured via LPP [34].

The accuracy requirements for PRS-RSRP measurement for FR1 defined in Table 10.1.24.2-1 are valid under the following conditions:

* Conditions defined in 38.101-1 Clause 7.3 for reference sensitivity are fulfilled.
* PRP 1,2|dBm according to Annex B.2.x for a corresponding Band

The accuracy requirements for PRS-RSRP measurement for FR2 defined in Table 10.1.24.2-2 are valid under the following conditions:

* Conditions defined in 38.101-2 Clause 7.3 for reference sensitivity are fulfilled.
* PRP 1,2|dBm according to Annex B.2.x for a corresponding Band

Table 10.1.24.2-1: PRS-RSRP measurement accuracy for FR1

TBA

Table 10.1.24.2-2: PRS-RSRP measurement accuracy for FR2

TBA

<End of Change 1>