**3GPP TSG-RAN WG4 Meeting #97-e *R4-2017155***

**Electronic Meeting, 2nd – 13th November, 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:***  | UE Rx-Tx measurement accuracy |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | R4 |
|  |  |
| ***Work item code:*** | NR\_POS-Perf |  | ***Date:*** | 2020-10-23 |
|  |  |  |  |  |
| ***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:*** | UE Rx-Tx measurements accuracy requirements are missing |
|  |  |
| ***Summary of change:*** | UE Rx-Tx measurements accuracy requirements are added |
|  |  |
| ***Consequences if not approved:*** | UE Rx-Tx measurements accuracy requirements are missing |
|  |  |
| ***Clauses affected:*** | 10.1.25.2 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  |  |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** | **X** |  |  Test specifications | TS 38.533 |
| ***(show related CRs)*** |  |  |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

### 10.1.25 UE Rx-Tx Time Difference Measurements

#### 10.1.25.1 Introduction

The requirements in Clause 10.1.25 shall apply, provided the UE has received *nr-Multi-RTT-RequestLocationInformation* message from LMF via LPP [31] requesting the UE to report one or more UE Rx-Tx time difference measurements defined in TS 38.215 [4].

#### 10.1.25.2 Measurement Accuracy Requirements

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

The UE Rx-Tx time difference accuracy requirements in this clause shall not apply, if NTA\_offset defined in Table 7.1.2-2 in 38.133 changes during the UE Rx-Tx measurement period.

The UE Rx-Tx measurement accuracy requirements shall not apply, if the uplink transmission timing changes during the UE Rx-Tx measurement period due to autonomous adjustment or based on network-configured TA.

The accuracy requirements in Table 10.1.25.2-1 are valid under the following conditions:

Conditions defined in clause 7.3 of TS 38.101-1 [18] for reference sensitivity are fulfilled.

PRP|dBm according to Annex B.2.8 for a corresponding Band.

The accuracy requirements in Table 10.1.25.2-2 are valid under the following conditions:

Conditions defined in clause 7.3 of TS 38.101-2 [19] for reference sensitivity are fulfilled.

PRP|dBm according to Annex B.2.8 for a corresponding Band.

Editor’s note: Tables 10.1.25.2-1 and 10.1.25.2-2 are TBD.