**3GPP TSG-RAN4 Meeting #102-e *R4-220XXXX***

**Electronic Meeting, February 21 – March 03, 2022**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **38.133** | **CR** | **DraftCR** | **rev** | **1** | **Current version:** | **17.4.0** |  |
|  |
| *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:***  | PRS-RSRPP measurement requirements including latency reduction |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | R4 |
|  |  |
| ***Work item code:*** | NR\_pos\_enh-Core |  | ***Date:*** | 2022-02-28 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-17 |
|  | *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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
|  |  |
| ***Reason for change:*** | To add PRS-RSRPP measurement requirements to the specification. |
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| ***Summary of change:*** | Rel. 17 agreement on PRS-RSRPP measurement requirement has been captured. |
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| ***Consequences if not approved:*** | PRS-RSRPP measurement performance cannot be guarenteed. |
|  |  |
| ***Clauses affected:*** | 9.9.6 (new) |
|  |  |
|  | **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 CHANGES----------------------------**

*Editor’s Note: All PRS-RSRPP measurement requirements e.g. applicability, measurement reporting, measurement with and without latency reduction, with and without gaps, scheduling restriction etc.*

### 9.9.6 PRS-RSRPP measurements

#### 9.9.6.1 Introduction

The requirements in clause 9.9.6.5 shall apply when UE is performing PRS measurement in the configured MG and provided the UE has received a message from LMF via LPP requesting the UE to measure and report PRS-RSRPP measurements defined in TS 38.215 [4].

The requirements in clause 9.9.6.x shall apply when UE is performing PRS measurement without gap and provided the UE has received a message from LMF via LPP requesting the UE to measure and report PRS-RSRPP measurements defined in TS 38.215 [4].

#### 9.9.6.2 Requirements applicability

The requirements in clause 9.9.6 apply for periodic and triggered PRS-RSRPP measurements, provided:

- PRS-RSRPP related side conditions given in clause 10.1.X are met for a corresponding Band.

##### 9.9.6.3 Measurement capability

TBD

#### 9.9.6.4 Measurement reporting requirements

TBD

#### 9.9.6.5 Measurement period requirements

For PRS measurement within MG configured to UE, measurement period requirements for PRS-RSRP defined in 9.9.3.5 is re-used for PRS-RSRPP. Measurement period requirement with reduced number of samples for PRS-RSRP measurement with MG is also re-used for PRS-RSRPP.

*Editor’s note: Based on the output of stage 2 running CR in RAN2 9.9.6.3 and 9.9.6.4 will be updated. Depending on response to R4-2202780 from RAN1 changes relevant to 9.9.6 may be done.*

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