**3GPP TSG-RAN WG1 Meeting #110 *R1-2208019***

**Toulouse, France, August 22 – 26, 2022**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **TS 38.214** | **CR** | 303 | **rev** | **-** | **Current version:** | **17.2.0** |  |
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| *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:***  | Corrections on M-sample measurement |
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| ***Source to WG:*** | Moderator (Huawei), OPPO |
| ***Source to TSG:*** | RAN1 |
|  |  |
| ***Work item code:*** | NR\_pos\_enh-Core |  | ***Date:*** | 2022-08-25 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
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| ***Reason for change:*** | Rel-17 specifies M-sample measurement for downlink positioning measurement. It was agreed that the configured M = 1 or 4 sample measurement is applicable to all the concurrent NR positioing measurement methods and all frequency layers. Rel-17 also specified first path RSRP measurement: DL PRS-RSRPP. But the text in current 38.214 states that M = 1 or 4 sample is only appliable to DL RSTD, DL PRS-RSRP and UE Rx-Tx time difference measurement, but not to DL PRS-RSRPP.That would cause misunderstanding that the configured M = 1or 4 sample measurement is not applicable to DL PRS-RSRPP measurement. |
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| ***Summary of change:*** | In section 5.1.6.5 of TS 38.214, add text to clarify that M = 1 or 4 sample measurement is also applicable to DL PRS-RSRPP measurement. |
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| ***Consequences if not approved:*** | The UE behavior on DL PRS-RSRPP measurement is ambiguious. |
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| ***Clauses affected:*** | 5.1.6.5 |
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|  | **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 ...  |
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| ***Other comments:*** | **Isolated Impact Analysis:**No inter-operability issue is identified. |
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| ***This CR's revision history:*** |  |

5.1.6.5 PRS reception procedure

<Unchanged parts are omitted>

The UE may be requested, subject to UE capability, to measure and report one or more of the DL RSTD, DL PRS-RSRP, DL PRS-RSRPP, or UE Rx-Tx time difference measurements with either 1 or 4 samples, as defined in [11, TS 38.133], via higher layer parameter [*numOfSamples-perMeasurement]* [17, TS 37.355] which applies for all DL PRS positioning frequency layers.

<Unchanged parts are omitted>