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

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

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **TS 38.214** | **CR** | 303 | **rev** | **-** | **Current version:** | **17.2.0** |  |
|  | | | | | | | | |
| *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:*** | 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 can be 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 ... | | |
|  | |  | | | | | | | | |
| ***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>