3GPP TSG RAN3 Meeting#123 R3-241197

**Athens, Greece, 26 February - 1 March, 2024**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
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|  |  | **CR** | **0122** | **rev** | **3** | **Current version:** |  |  |
|  |
| *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 |  | Radio Access Network | **x** | Core Network |  |

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| ***Title:***  | Support of NR Positioning Enhancements |
|  |  |
| ***Source to WG:*** | Samsung, Huawei, CATT, Ericsson, Nokia, Nokia Shanghai Bell, ZTE, Xiaomi |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** | 4 |
|  |  |  |  |  |
| ***Category:*** | B |  | ***Release:*** |  |
|  | *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)* |
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| ***Reason for change:*** | The CR introduces functionality for support of NR positioning enhancements. |
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| ***Summary of change:*** | * Add positioning function for LPHAP
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| ***Consequences if not approved:*** | Missing Positioning function for support of NR positioning enhancements.  |
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| ***Clauses affected:*** | 5.2.11 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS 38.413 CR 0991TS 38.423 CR 1061TS 38.455 CR 0113TS 38.473 CR 1180TS 38.305 |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | Rev0: * Capture the agreed TP in R3-235934.

Rev1: * Resubmission in RAN3#122.

Rev2: * Resubmission in RAN3#123.

Rev2: * Capture the agreed TP in R3-240904.
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*Start of change*

### 5.2.11 Positioning function

This function allows to transfer location management messages between gNB-CU and gNB-DU. With this function, gNB-CU request TRP information from gNB-DU, and gNB-DU response to gNB-CU with the TRP information. With this function, gNB-CU request positioning measurements from gNB-DU, and gNB-DU response to gNB-CU with the positioning measurements.

The function allows the gNB-CU to

- transfer the positioning assistance data to gNB-DU. The gNB-DU is responsible for broadcasting the positioning assistance data according to the scheduling parameters available.

- request the gNB-DU to configure SRS transmissions for UE.

- request the gNB-DU to configure PRS transmissions.

- request the gNB-DU to configure measurement gap or PRS processing window.

- request the gNB-DU to activate or deactivate preconfigured measurement gap or PRS processing window.

- request the gNB-DU to broadcast positioning system information.

- request the gNB-DU to reserve or release the SRS resources for area-specific SRS transmissions.

*End of change*