3GPP TSG-RAN2 Meeting #115-e R2-2108954

e-Meeting, 16th – 27th August 2021 Revision of R2-2108407

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **305** | **CR** | **0079** | **rev** | **1** | **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 | **X** |

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| ***Title:***  | Correction for Roles of gNB and ng-eNB for positioning in release-15 |
|  |  |
| ***Source to WG:*** | Ericsson  |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | NR\_newRAT-Core |  | ***Date:*** | 06 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | 5 |
|  | *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:*** | Rel-15 NR Positioning measurements configuration or obtaining measurement reports from UE are only supported by ng-eNB but not by gNB. The gNB may only provide the serving cell ID of the target UE but it has no role in providing any measurement configuration or obtaining any measurements from target cell/UE. This has caused some confusion for example in the scope of ECID. Hence a general correction and clarification have been done.Impacted 5G architecture options:(NG)EN-DC, NE-DC Impacted functionality:Rel-15 Positioning scope and supportInter-operability:No Inter-Operability issue seen. |
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| ***Summary of change:*** | The description of the roles of gNB and ng-eNB have been updated. |
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| ***Consequences if not approved:*** | Unlcear scope and role of gNB and ng-eNB |
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| ***Clauses affected:*** | 4.2, 5.4.2 |
|  |  |
|  | **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**

## 4.2 Role of UE Positioning Methods

The NG-RAN may utilise one or more positioning methods in order to determine the position of an UE.

Positioning the UE involves two main steps:

- signal measurements; and

- position estimate and optional velocity computation based on the measurements.

The signal measurements may be made by the UE or by the serving ng-eNB. The basic signals measured for terrestrial position methods are typically the LTE radio transmissions; however, other methods may make use of other transmissions such as general radio navigation signals including those from Global Navigation Satellites Systems (GNSSs).

The positioning function should not be limited to a single method or measurement. That is, it should be capable of utilising other standard methods and measurements, as such methods and measurements are available and appropriate, to meet the required service needs of the location service client. This additional information could consist of readily available E-UTRAN or NG-RAN measurements.

The position estimate computation may be made by the UE or by the LMF.

**NEXT CHANGE**

### 5.4.2 gNB

The gNB is a network element of NG-RAN that may provide information such as serving cell ID of a target UE and communicates this information to an LMF.

NOTE: gNB based measurements are not supported in this version of the specification.

**END OF CHANGES**