**3GPP TSG- WG3 Meeting #**

**21 February – 3 March 2022**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **38.470** | **CR** |  **0079** | **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:***  | Introduction of release 17 positioning enhancements |
|  |  |
| ***Source to WG:*** | Qualcomm Incorporated, Ericsson, Huawei |
| ***Source to TSG:*** | R3 |
|  |  |
| ***Work item code:*** | NR\_pos\_enh |  | ***Date:*** | 2022-02-17 |
|  |  |  |  |  |
| ***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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | A new positioning procedure is added to F1AP (PRS Configuration Exchange). |
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| ***Summary of change:*** | Add the PRS Configuration Exchange procedure to the list of Positioning procedures, and associated functionality to the Positioning function section. |
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| ***Consequences if not approved:*** | Misaligment with TS 38.473 |
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| ***Clauses affected:*** | 5.2.11, 6.1.11 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS38.455 CR#0037, TS38.473 CR#0803, TS38.423 CR#0748 |
| ***affected:*** |  | **x** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **x** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | r3: includes TP from R3#115-3 (R3-222790) |

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

The function allows the gNB-CU to request the gNB-DU to configure PRS transmissions.

The function allows the gNB-CU to request the gNB-DU to configure measurement gap or PRS processing window.

The function allows the gNB-CU to request the gNB-DU to activate preconfigured measurement gaps.

**>>> NEXT CHANGE <<<**

### 6.1.11 Positioning procedures

The F1 Positioning procedures are listed below:

* Positioning Assistance Information Control procedure;
* Positioning Assistance Information Feedback procedure;
* Positioning Measurement procedure;
* Positioning Measurement Report procedure;
* Positioning Measurement Abort procedure;
* Positioning Measurement Failure Indication procedure;
* Positioning Measurement Update procedure;
* TRP Information Exchange procedure;
* Positioning Information Update;
* Positioning Information Exchange procedure;
* Positioning Activation procedure;
* Positioning Deactivation procedure;
* E-CID Measurement Initiation;
* E-CID Measurement Failure Indication procedure;
* E-CID Measurement Report procedure;
* E-CID Measurement Termination procedure;
* PRS Configuration Exchange procedure;
* Measurement Preconfiguration;
* Measurement Activation.