**3GPP TSG-RAN2#119-e *draft-*R2-2208745**

**e-meeting, 17-29 August**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | 36.306 | **CR** | 1856 | **rev** | - | **Current version:** | 17.1.0 |  |
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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 | **X** | Core Network |  |

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| ***Title:***  | UE Capability CR for HO from E-UTRA to FR2-2 |
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| ***Source to WG:*** | ZTE Corporation, Sanechips |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | NR\_ext\_to\_71GHz-Core |  | ***Date:*** | 26/08/2022 |
|  |  |  |  |  |
| ***Category:*** | F |  | ***Release:*** | *Rel-17* |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier elease)****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:*** | RRM measurement for FR2-2 cell have been introduced in 38.331. The common understandings is that the UE supporting the HO to FR2-2 should also support the FR2-2 measurement framework. This is currently not clear in 36.306.  |
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| ***Summary of change:*** | Clarify in the field descriptions of *eutra-5GC-HO-ToNR-TDD-FR2-2-r17 and eutra-EPC-HO-ToNR-TDD-FR2-2-r17* that the UE supporting these features should also support the corresponding RRM measurements. **Impact analysis**Impacted 5G architecture options:SA, ENDCImpacted functionality:FR2-2Inter-operability: * If the UE is implemented according to this CR while the network is not, the network doesn’t know whether the UE supports the FR2-2 measurements or not. However in this case there is no interoperability issue since the UE can be configured with measurements if the network chooses to do this.
* If the network is implemented according to this CR while the UE is not, the network may configure measurements for FR2-2 which may result in invalid (unsupported) configuration on the UE side if the UE doesn’t support this configuration.
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| ***Consequences if not approved:*** | It is unclear whether the UE supporting HO to FR2-2 also supports the measurements or not.  |
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| ***Clauses affected:*** | 4.3.34.25, 4.3.34.26 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS/TR 36.331 CR 4869  |
| ***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:*** |  |

*first Change*

#### 4.3.34.25 *eutra-5GC-HO-ToNR-TDD-FR2-2-r17*

This field indicates whether the UE supports handover from E-UTRA/5GC to NR TDD FR2-2 as specified in TS 38.101-x[xx]. A UE that indicates this field also supports *eutra-5GC-r15*. A UE supporting handover from E-UTRA/5GC to NR TDD FR2-2 shall also support the RRM measurements for FR2-2 as specified in TS 36.331 [5].

#### 4.3.34.26 *eutra-EPC-HO-ToNR-TDD-FR2-2-r17*

This field indicates whether the UE supports handover from E-UTRA/EPC to NR TDD FR2-2 as specified in TS 38.101-x[xx]. A UE supporting handover from E-UTRA/EPC to NR TDD FR2-2 shall also support the RRM measurements for FR2-2 as specified in TS 36.331 [5].