**3GPP TSG-RAN WG2 Meeting #109bis-e R2-2003493**

**Electronic, 20 April – 30 April 2020**

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| *CR-Form-v11.4* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **36.306** | **CR** | **1755** | **rev** | **-** | **Current version:** | **16.0.0** |  |
|  | | | | | | | | |
| *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 | **X** | Core Network |  |

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| ***Title:*** | 36.306 CR to introduce alternative cell reselection priority for EN-DC | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | CMCC, SoftBank, Ericsson, Huawei, ZTE, CATT, vivo, OPPO | | | | | | | | | |
| ***Source to TSG:*** | R2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI16 | | | | |  | ***Date:*** | | | 2020-04-20 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-16 |
|  | *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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | To allow different UEs to apply different cell reselection priorities the network can indicate to the UE if the UE shall use the legacy priorities or use alternative priorities. This can be used for example to make EN-DC capable UEs to apply different cell reselection priorities compared to non-EN-DC capable UEs such that EN-DC capable UEs are on frequencies on which EN-DC enabled cells are deployed. | | | | | | | | |
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| ***Summary of change:*** | | 1. A new capability is added to indicate whether UE supports alternative cell reselection priority. | | | | | | | | |
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| ***Consequences if not approved:*** | | EN-DC UEs and other UEs will use the same cell reselection priorities, thus reducing network optimization possibilities. | | | | | | | | |
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| ***Clauses affected:*** | | 4.3.8 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS 36.331 CR 4229  TS 36.304 CR 0782 | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

4.3 Parameters independent of the field *ue-Category* and *ue-CategoryDL / ue-CategoryUL*

*<partially omitted>*

4.3.8 General parameters

4.3.8.1 *accessStratumRelease*

This field defines the release of the E-UTRA layer 1, 2, and 3 specifications supported by the UE e.g. Rel-8, Rel-9, etc.

4.3.8.1A *accessStratumRelease-r13*

This field defines the release of the E-UTRA layer 1, 2, and 3 specifications supported by the UE e.g. Rel-13, Rel-14, etc. This field is only applicable for UEs of any *ue-Category-NB*.

4.3.8.2 *deviceType*

This field defines whether the device does not benefit from NW-based battery consumption optimisation.

4.3.8.3 Void

4.3.8.4 Void

4.3.8.5 *multipleDRB-r13*

This field defines whether the UE supports multiple DRBs. This field is only applicable if the UE supports S1-U data transfer or User plane CIoT EPS Optimisation, as defined in TS 24.301 [28] and any *ue-Category-NB*. If a UE of this release supports multiple DRBs, the UE shall support two simultaneous DRBs.

4.3.8.6 Void

4.3.8.7 *earlyData-UP-r15*

This field defines whether the UE supports MO-EDT for User Plane CIoT EPS optimizations, as defined in TS 24.301 [28]. This feature is only applicable if the UE supports *ce-ModeA-r13*, or for FDD if the UE supports any *ue-Category-NB*.

4.3.8.8 void

4.3.8.9 *extendedNumberOfDRBs-r15*

This field defines whether the UE supports up to 15 DRBs. The UE shall support any combination of RLC AM and RLC UM entities for the configured DRBs. A UE that supports *extendedNumberOfDRBs-r15* shall also support the extended LCID as specified in TS 36.321 [4].

4.3.8.10 *reducedCP-Latency-r15*

This field defines whether the UE supports reduced control plane latency as defined in TS 36.213 [22] and TS 36.331 [5].

4.3.8.11 *earlySecurityReactivation-r16*

This field defines whether the UE supports early security reactivation when resuming a suspended RRC connection as specified in TS 36.331 [5].

4.3.8.12 *pur-CP-EPC-r16*

This field indicates whether the UE supports Transmission using PUR for Control Plane CIoT EPS optimisation, as defined in TS 36.300 [30]. This feature is only applicable if the UE supports *ce-ModeA-r13,* or for FDD if the UE supports any *ue-Category-NB*.

4.3.8.13 *pur-UP-EPC-r16*

This field indicates whether the UE supports Transmission using PUR for User Plane CIoT EPS optimisation, as defined in TS 36.300 [30]. This feature is only applicable if the UE supports *ce-ModeA-r13,* or for FDD if the UE supports any *ue-Category-NB*.

4.3.8.14 *dl-DedicatedMessageSegmentation-r16*

Indicates whether the UE supports reception of segmented DL RRC messages.

4.3.8.x *altFreqPriority-r16*

This field defines whether the UE supports alternative cell reselection priority as defined in TS 36.331 [5].