**3GPP TSG-RAN WG2 Meeting #110-e R2-200xxxx**

**Electronic, 1st -12th June 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **36.306** | **CR** | **-** | **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:*** | UE Capability for Rel-16 LTE even further mobility enhancement | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | China Telecom | | | | | | | | | |
| ***Source to TSG:*** | R2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | LTE\_feMob-Core | | | | |  | ***Date:*** | | | 2020-05-20 |
|  |  | | | |  | |  | | |  |
| ***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 capture capabilities for LTE mobility enhancement into stage 3 specification. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | To capture below capabilities:  **DAPS:**  intraFreqDAPS-r16;  asyncDAPS-r16  syncDAPS-r16  interFreqDAPS-r16  singleUL-TransmissionDAPS-r16  multiUL-TransmissionDAPS-r16  uplinkPowerSharingDAPS-r16  pdcch-BlindDetectionSourceDAPS-r16  pdcch-BlindDetectionTargetDAPS-r16  ul-TransCancellationDAPS-r16  **CHO:**  cho-FDD-TDD-r16  cho-r16  cho-Failure-r16 | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Capability part for LTE moiblity enhancement is missing in stage 3. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.3.4, 4.3.5, 4.3.30 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | TS 36.331 | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |

**-----------------------------------------[Changes Start]-----------------------------------------------------**

### 4.3.4 Physical layer parameters

------------unchanged part omitted-------------

#### 4.3.4.191 *widebandPRG-Slot-r16, widebandPRG-Subslot-r16, widebandPRG-Subframe-r16*

This field indicates whether the UE supports wideband precoding resource block group size for slot/subslot/subframe PDSCH operation as specified in TS 36.213 [22].

#### 4.3.4.x1 *pdcch-BlindDetectionSourceDAPS-r16, pdcch-BlindDetectionTargetDAPS-r16*

This field indicates the UE PDCCH blind decoding capability supported in source/target PCell during DAPS handover. It is mandatory for the UE to support DAPS handover.

#### 4.3.4.x2 *ul-TransCancellationDAPS-r16*

This field indicates support of cancelling UL transmission to the source PCell.

**-----------------------------------------[Next Change]-----------------------------------------------------**

### 4.3.5 RF parameters

--------------unchanged part omitted---------------------

#### 4.3.5.38 *supportedCSI-Proc-r15*

This field indicates in MR-DC the number of CSI processes for the component carrier in the corresponding bandwidth class.

#### 4.3.5.x1 *asyncDAPS-r16*

This field indicates whether the UE supports asynchronous DAPS handover.

#### 4.3.5.x2 *syncDAPS-r16*

This field indicates whether the UE supports synchronous DAPS handover.

#### 4.3.5.x3 *intraFreqDAPS-r16*

This field indicates whether UE supports DAPS handover in source PCell and intra-frequency target PCell, e.g support of simultaneous DL reception of PDCCH and PDSCH from source and target cell.

#### 4.3.5.x4 *interFreqDAPS-r16*

This field indicates whether the UE supports DAPS in source PCell and inter-frequency target PCell, e.g support of simultaneous DL reception of PDCCH and PDSCH from source and target cell.

#### 4.3.5.x5 *singleUL-TransmissionDAPS-r16*

This field indicates that the UE only support single UL transmission when in DAPS handover.

#### 4.3.5.x6 *multiUL-TransmissionDAPS-r16*

This field indicates that the UE only support simultaneous UL transmission in source PCell and target PCell when in DAPS handover.

#### 4.3.5.x7 *uplinkPowerSharingDAPS-r16*

This field indicates whether the UE supports UL power sharing during DAPS handover.

**-----------------------------------------[Next Change]-----------------------------------------------------**

-------------unchanged part omitted--------------------

### 4.3.30 Mobility enhancement parameters

#### 4.3.30.1 *makeBeforeBreak-r14*

This field defines whether the UE supports Make-Before-Break handover and, if the UE supports DC, Make-Before-Break SeNB change, as specified in TS 36.331 [5].

#### 4.3.30.2 *rach-Less-r14*

This field defines whether the UE supports RACH-less handover and, if the UE supports DC, RACH-less SeNB change, as specified in TS 36.213 [22] and TS 36.331 [5].

#### 4.3.30.x1 *cho-r16*

This field indicates whether the UE supports conditional handover including execution condition and candidate cell configuration.

#### 4.3.30.x2 *cho-Failure-r16*

This field indicates whether the UE supports conditional handover during re-establishment procedure when the selected cell is configured as candidate cell for condition handover.

#### 4.3.30.x3 *cho-FDD-TDD-r16*

This field indicates whether the UE supports conditional handover between FDD and TDD cells.

**-----------------------------------------[ Changes End]-----------------------------------------------------**