**3GPP TSG-RAN WG2 Meeting #109 electronic *R2-200xxxx***

**24 Feb – 6 Mar 2020**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **36.306** | **CR** | **1740** | **rev** | **1** | **Current version:** | **15.7.0** |  |
|  | | | | | | | | |
| *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:*** | Introduction of DL MIMO efficiency enhancement | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | R2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | LTE\_DL\_MIMO\_EE-Core | | | | |  | ***Date:*** | | | 2020-02-14 |
|  |  | | | |  | |  | | |  |
| ***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)* | |
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| ***Reason for change:*** | | As per the endoresed UE feature for Rel-16 LTE in R1-1911750, corresponding RRC UE capabilities need to be added to support DL MIMO efficiency enhancement. | | | | | | | | |
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| ***Summary of change:*** | | 1. Add UE capabilities for supporting DL MIMO efficiency enhancement. | | | | | | | | |
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| ***Consequences if not approved:*** | | UE capabilities for DL MIMO efficiency enhancement are not included in the specification. | | | | | | | | |
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| ***Clauses affected:*** | | 4.3.4.x (New), 4.3.4.y (New) | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | TS 36.331 CR 4219 | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
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| ***Other comments:*** | |  | | | | | | | | |

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| ***This CR's revision history:*** |  |

Beginning of changes

4.3.4 Physical layer parameters

*/unchanged parts are omitted/*

#### 4.3.4.x *addSRS-Symbols-r16*

This field indicates whether the UE supports the additional SRS symbols within the normal UL subframes. If *addSRS-Symbols-r16* is set to supported, the power control is performed independently for additional SRS symbol(s), SRS symbol(s) and PUSCH.

#### 4.3.4.y *virtualCellID-r16*

This field indicates whether the UE supports virtual cell ID for SRS symbol(s) and additional SRS symbol(s).

End of changes