**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 |
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| ***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 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-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) |
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|  | **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 ...  |
|  |  |
| ***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