**3GPP TSG-RAN WG1 Meeting #117 R1-240xxxx**

**Fukuoka City, Fukuoka, Japan, May 20th-24th, 2024**

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| *CR-Form-v12.3* |
| **DRAFT CHANGE REQUEST** |
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|  | **38.214** | **CR** | **---** | **rev** | **---** | **Current version:** | **18.2.0** |  |
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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:***  | Corrections for Referencing UE Capabilities for 8TX UE |
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| ***Source to WG:*** | Moderator (InterDigital), Ericsson, Samsung |
| ***Source to TSG:*** | --- |
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| ***Work item code:*** | NR\_MIMO\_evo\_DL\_UL-Core |  | ***Date:*** | 2024-05-19 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-18 |
|  | *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-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
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| ***Reason for change:*** | * According to 38.306 v18.0, UE capabilities for 8 antenna port codebooks are ‘codebook1-8TxPUSCH-r18’ (support for one of two codebooks with values n4-1 and n2-2), ‘codebook2-8TxPUSCH-r18’, ‘codebook3-8TxPUSCH-r18’, and ‘codebook4-8TxPUSCH-r18’, and there is no capability named ‘UL\_8TX\_Ng’.

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| ***Summary of change:*** | * Removing the reference to ‘UL\_8TX\_Ng’, and revise the text that UE should expect to be configured according its reported capabilities, which addresses both the number of port groups and the supported codebooks.
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| ***Consequences if not approved:*** | * Incorrect referencing to a non-existing capability.
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| ***Clauses affected:*** | 6.1.1.1 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **N** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **N** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **N** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |
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| ***This CR's revision history:*** |  |

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| 6.1.1.1 Codebook based UL transmission-------------------------------------------Unchanged parts are omitted-------------------------------------------A UE does not expect to be configured ~~by~~ *~~CodebookTypeUL~~* with a value of *CodebookTypeUL* that does not correspond to one of the values ~~of~~ *~~UL\_8TX\_Ng~~* reported in its capability for codebook based transmission with eight antenna ports. -------------------------------------------Unchanged parts are omitted------------------------------------------- |

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