**3GPP TSG-RAN WG1 Meeting 102eR1-20xxxxx**

**Elbonia, August 17 – 28, 2020**

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| *CR-Form-v12.0* |
|  **DRAFT CHANGE REQUEST** |
|  |
|  | **38.211** | **CR** |  | **rev** |  | **Current version:** | **16.2.0** |  |
|  |
| *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:***  | Corrections to eMIMO |
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| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** | NR\_eMIMO-Core |  | ***Date:*** | 2020-08-31 |
|  |  |  |  |  |
| ***Category:*** | F |  | ***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:*** | 1. The RRC parameter AdditionaldataScramblingIdentityPDSCH in TS 38.211 does not align with the RRC parameter name in TS 38.331.
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| ***Summary of change:*** | 1. Correction of the RRC parameter name to align with RRC parameter name in TS 38.331 (R1-2007121)
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| ***Consequences if not approved:*** | 1. Misalignment between TS 38.211 and TS 38.331.
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| ***Clauses affected:*** | 7.3.1.1 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

#### 7.3.1.1 Scrambling

Up to two codewords  can be transmitted. In case of single-codeword transmission, .

For each codeword , the UE shall assume the block of bits $b^{\left(q\right)}\left(0\right), …, b^{\left(q\right)}(M\_{bit}^{\left(q\right)}-1)$, where $M\_{bit}^{(q)}$ is the number of bits in codeword  transmitted on the physical channel, are scrambled prior to modulation, resulting in a block of scrambled bits $\tilde{b}^{\left(q\right)}\left(0\right), …, \tilde{b}^{\left(q\right)}(M\_{bit}^{\left(q\right)}-1)$according to

 $\tilde{b}^{(q)}\left(i\right)=\left(b^{(q)}\left(i\right)+c^{(q)}(i)\right) mod 2$

where the scrambling sequence $c^{\left(q\right)}(i)$ is given by clause 5.2.1. The scrambling sequence generator shall be initialized with

$$c\_{init}=n\_{RNTI}⋅2^{15}+q⋅2^{14}+n\_{ID}$$

where

-  equals the higher-layer parameter *dataScramblingIdentityPDSCH* if configured and the RNTI equals the C-RNTI, MCS-C-RNTI, or CS-RNTI, and the transmission is not scheduled using DCI format 1\_0 in a common search space;

- $n\_{ID}\in \left\{0,1,…,1023\right\}$ equals

- the higher-layer parameter *dataScramblingIdentityPDSCH* if the codeword is scheduled using a CORESET with *CORESETPoolIndex* equal to 0;

- the higher-layer parameter *dataScramblingIdentityPDSCH2-r16* if the codeword is scheduled using a CORESET with *CORESETPoolIndex* equal to 1;

 if the higher-layer parameters *dataScramblingIdentityPDSCH* and *dataScramblingIdentityPDSCH2-r16* are configured together with the higher-layer parameter *CORESETPoolIndex* containing two different values, and the RNTI equals the C-RNTI, MCS-C-RNTI, or CS-RNTI, and the transmission is not scheduled using DCI format 1\_0 in a common search space;

- $n\_{ID}=N\_{ID}^{cell}$ otherwise

and where  corresponds to the RNTI associated with the PDSCH transmission as described in clause 5.1 of [6, TS 38.214].