**3GPP TSG-RAN WG1 Meeting #106-eR1-210xxxx**

 **e-meeting, 16 - 27 August, 2021**

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| *CR-Form-v12.1* |
| **[DRAFT] CHANGE REQUEST** |
|  |
|  | **38.212** | **CR** |  | **rev** | **-** | **Current version:** | **16.6.0** |  |
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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:***  | [Draft] Correction on SRS resource set configuration for DCI format 0\_2 in TS 38.212 |
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| ***Source to WG:*** | Moderator (Qualcomm), Ericsson |
| ***Source to TSG:*** | R1 |
|  |  |
| ***Work item code:*** | NR\_L1enh-URLLC-Core |  | ***Date:*** | 2021-08-23 |
|  |  |  |  |  |
| ***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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | To capture the correction on the configuration of SRS resource set(s) assocaited with *srs-ResourceSetToAddModListDCI-0-2* based on the outcome of email discussion [106-e-NR-L1enh-URLLC-01] |
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| ***Summary of change:*** | Clarify that, the higher layer parameters *‘srs-ResourceSetId’* and *‘srs-ResourceIdList’* associated with SRS resource set with usage='*codeBook*' or '*nonCodeBook*' configured by *srs-ResourceSetToAddModListDCI-0-2* can be configured differently from these higher layer parameters associated with the SRS resource set configured by *srs-ResourceSetToAddModList* with the same usage. |
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| ***Consequences if not approved:*** | The network will not be able to configure different number of SRS resources in the SRS resource set associated with DCI format 0\_1 and 0\_2, and hence the bit width of SRI in DCI format 0\_1 and 0\_2 can not be configured differently.  |
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| ***Clauses affected:*** | 7.3.1.1.3 |
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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:*** |  |

7.3.1.1.3 Format 0\_2

< Unchanged parts are omitted >

- SRS resource indicator –$ \left⌈log\_{2}\left(\sum\_{k=1}^{min\left\{L\_{max}, N\_{SRS,0\\_2}\right\}}\left(\begin{matrix}N\_{SRS,0\\_2}\\k\end{matrix}\right)\right)\right⌉ $or $\left⌈log\_{2}N\_{SRS, 0\\_2}\right⌉ $bits, where $N\_{SRS, 0\\_2}$ is the number of configured SRS resources in the SRS resource set configured by higher layer parameter *srs-ResourceSetToAddModListDCI-0-2*, and associated with the higher layer parameter *usage* of value '*codeBook*' or '*nonCodeBook*', where the SRS resource set is composed of the first $N\_{SRS, 0\\_2}$ SRS resources together with other configurations in the SRS resource set configured by higher layer parameter *srs-ResourceSetToAddModList*, if any, and associated with the higher layer parameter *usage* of value '*codeBook*' or '*nonCodeBook*', respectively, except for the higher layer parameters *‘srs-ResourceSetId’ and ‘srs-ResourceIdList’*

- $\left⌈log\_{2}\left(\sum\_{k=1}^{min\left\{L\_{max}, N\_{SRS,0\\_2}\right\}}\left(\begin{matrix}N\_{SRS,0\\_2}\\k\end{matrix}\right)\right)\right⌉$ bits according to Tables 7.3.1.1.2-28/29/30/31 if the higher layer parameter *txConfig = nonCodebook*, where $N\_{SRS, 0\\_2}$ is the number of configured SRS resources in the SRS resource set configured by higher layer parameter *srs-ResourceSetToAddModListDCI-0-2*, and associated with the higher layer parameter *usage* of value '*nonCodeBook*', where the SRS resource set is composed of the first $N\_{SRS, 0\\_2}$ SRS resources together with other configurations in the SRS resource set configured by higher layer parameter *srs-ResourceSetToAddModList*, if any, and associated with the higher layer parameter *usage* of value '*nonCodeBook*', except for the higher layer parameters *‘srs-ResourceSetId’ and ‘srs-ResourceIdList’,* and

- if UE supports operation with *maxMIMO-LayersDCI-0-2* and the higher layer parameter *maxMIMO-LayersDCI-0-2* of *PUSCH-ServingCellConfig* of the serving cell is configured, *Lmax* is given by that parameter

- otherwise, *Lmax* is given by the maximum number of layers for PUSCH supported by the UE for the serving cell for non-codebook based operation.

- $\left⌈log\_{2}N\_{SRS, 0\\_2}\right⌉ $bits according to Tables 7.3.1.1.2-32 if the higher layer parameter *txConfig = codebook*, where $N\_{SRS, 0\\_2}$ is the number of configured SRS resources in the SRS resource set configured by higher layer parameter *srs-ResourceSetToAddModListDCI-0-2*, and associated with the higher layer parameter *usage* of value '*codeBook*', where the SRS resource set is composed of the first $N\_{SRS, 0\\_2}$ SRS resources together with other configurations in the SRS resource set configured by higher layer parameter *srs-ResourceSetToAddModList*, if any, and associated with the higher layer parameter *usage* of value '*codeBook*', except for the higher layer parameters *‘srs-ResourceSetId’ and ‘srs-ResourceIdList’*.

< Unchanged parts are omitted >