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

**Fukuoka, Japan, May 20th – 24th, 2024**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.214** | **CR** |  | **rev** | **-** | **Current version:** | **18.2.0** |  |
|  | | | | | | | | |
| *For* [***HELP***](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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network | **X** | Core Network |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Corrections for 8-port SRS (TDM or non-TDM, without mixture) | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Moderator (Futurewei), Samsung, ZTE | | | | | | | | | |
| ***Source to TSG:*** | RAN1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_MIMO\_evo\_DL\_UL-Core | | | | |  | ***Date:*** | | | 2024-05-20 |
|  |  | | | |  | |  | | |  |
| ***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 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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | In TS 38.331, the RRC parameter *nrofSRS-Ports-n8* is used to identify the port number for an 8-port SRS resource, and *nrofSRS-Ports* for an 1,2,4-port SRS resource. However, in a paragraph of 6.1.1.1 in TS 38.214, only the RRC parameter *nrofSRS-Ports* is used, which does not cover 8-port SRS resources. Also it needs to clarify if a mixture of TDMed and non-TDMed 8-port SRS resource is allowed. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Revise the wording to be applicable to SRS resources with 1, 2, 4, or 8 ports. Note that based on the change, a mixture of TDMed and non-TDMed 8-port SRS resource in a SRS resource set is not supported. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The case of 8-port SRS resource is not covered in 6.1.1.1 of TS38.214. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.1.1.1 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | |  | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | This is the first version of the CR. | | | | | | | | |

#### 6.1.1.1 Codebook based UL transmission

<Unchanged parts are omitted>

Except when higher layer parameter *ul-FullPowerTransmission* is set to 'fullpowerMode2', when multiple SRS resources are configured by *SRS-ResourceSet* with *usage* set to 'codebook', the UE shall expect that a same higher layer parameter of *nrofSRS-Ports or nrofSRS-Ports-n8 is configured* in *SRS-Resource* in *SRS-ResourceSet*, and the higher layer parameter *nrofSRS-Ports or nrofSRS-Ports-n8* shall be configured with the same value for all these SRS resources.

<Unchanged parts are omitted>