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

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.214** | **CR** | **---** | **rev** | **---** | **Current version:** | **18.2.0** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

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

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | Correction on Rel-18 Type II Doppler codebook based CSI enhancement | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Moderator (Samsung), Xiaomi, New H3C, Google, Ericsson | | | | | | | | | |
| ***Source to TSG:*** | --- | | | | | | | | | |
|  |  | | | | | | | | | |
| ***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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | In current specification, the value of used for relaxing aperodic CSI reporting time for Rel-18 Type II Doppler codebook or Rel-18 Type II Doppler Port Selection codebook is not given. In addition, it is not clear how to obtain the value of . According to agreement on the UE feature achieved in RAN1#116-bis meeting, the value of is equal to either 14\*(*KP*–1)\**d* or 14\**KP*\**d* symbols, where the value of *KP* ∈ {1,2,4} is indicated by UE capability, and *d* = 4 is the minimum periodicity of periodic or semi-persistent CSI-RS resource. The value of is reported by UE capability indication. Such agreement should be captured in current specification for clarification. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Clarify the value of and how to obtain in section 5.4. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | It is not unclear what is the value of and how to obtain . | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.4 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

5.4 UE CSI computation time

-------------------------------------------Unchanged parts are omitted-------------------------------------------

….

- or , according to UE reported capability, with of table 5.4-2, if *codebookType* is set to 'typeII-CJT-r18' or 'typeII-CJT-PortSelection-r18' and the corresponding *NZP-CSI-RS-ResourceSet* for channel measurement is configured with resources, or

- , with of table 5.4-2, if the CSI report is configured with , *codebookType* is set to ‘typeII-Doppler-r18’ or ‘typeII-Doppler-PortSelection-r18’ and the corresponding *NZP-CSI-RS-ResourceSet* for channel measurement is aperiodic with CSI-RS resources, or

- , with of table 5.4-2, where =56.(*KP* –1) or 56.*KP* symbols, according to the reported UE capability, where the value of 𝐾𝑃 ∈{1,2,4} is indicated by UE capability, if the CSI report is configured with , *codebookType* is set to ‘typeII-Doppler-r18’ or ‘typeII-Doppler-PortSelection-r18’ and the corresponding *NZP-CSI-RS-ResourceSet* for channel measurement is periodic or semi-persistent with a single CSI-RS resource, or

- or , according to UE reported capability, with of table 5.4-2, if the CSI report is configured with , *codebookType* is set to ‘typeII-Doppler-r18’ and the corresponding *NZP-CSI-RS-ResourceSet* for channel measurement is aperiodic with CSI-RS resources, or

…

-------------------------------------------Unchanged parts are omitted-------------------------------------------