**3GPP TSG-RAN WG1 Meeting #117**

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

|  |
| --- |
| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **38.213** | **CR** | **0644** | **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:***  | Corrections to the beam of CFRA triggered by cell switch command in TS38.213 |
|  |  |
| ***Source to WG:*** | Moderator (Fujitsu), Huawei, HiSilicon, Ericsson, Google, Langbo, Lenovo, New H3C, Nokia, Samsung, ZTE |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** | NR\_Mob\_enh2-Core |  | ***Date:*** | 2024-05-23 |
|  |  |  |  |  |
| ***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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)Rel-20 (Release 20)* |
|  |  |
| ***Reason for change:*** | For CFRA triggered by DCI format 1-0, UE uses the same beam as PDCCH order to receive PDCCH scheduling msg 2. However, for CFRA triggered by LTM Cell Switch Command MAC CE, the msg 2 and its scheduling PDCCH is transmitted from the target cell, which can be different from source cell transmits cell switch command. The beam to receive the PDCCH for msg 2 is not defined.  |
|  |  |
| ***Summary of change:*** | Clarify that for msg2 PDCCH, UE should assume same DM-RS antenna port quasi co-location properties as for a SS/PBCH block the UE used for PRACH association for CFRA triggered by LTM cell switch command |
|  |  |
| ***Consequences if not approved:*** | The beam of msg 2 PDCCH in CFRA triggered by LTM cell switch command is not cleared.  |
|  |  |
| ***Clauses affected:*** | 8.2 |
|  |  |
|  | **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 ...  |
|  |  |
| ***Other comments:*** | **Isolated Impact Analysis:**No inter-operatability issue is identified. |
|  |  |
| ***This CR's revision history:*** | This is the first version of this draft CR |

## 8.2 Random access response - Type-1 random access procedure

 < Unchanged parts are omitted >

If the UE detects a DCI format 1\_0 with CRC scrambled by the corresponding RA-RNTI and LSBs of a SFN field in the DCI format 1\_0, if included and applicable, are same as corresponding LSBs of the SFN where the UE transmitted the PRACH, and the UE receives a transport block in a corresponding PDSCH, the UE may assume same DM-RS antenna port quasi co-location properties, as described in [6, TS 38.214], as for a SS/PBCH block or a CSI-RS resource the UE used for PRACH association, as described in clause 8.1, regardless of whether or not the UE is provided *TCI-State* for the CORESET where the UE receives the PDCCH with the DCI format 1\_0.

For the CFRA procedure triggered by LTM Cell Switch Command MAC CE, if the UE detects a DCI format 1\_0 with CRC scrambled by the corresponding RA-RNTI and the UE receives a transport block in a corresponding PDSCH, the UE may assume same DM-RS antenna port quasi co-location properties, as described in [6, TS 38.214], as for a SS/PBCH block the UE used for PRACH association, as described in clause 8.1.

If the UE attempts to detect the DCI format 1\_0 with CRC scrambled by the corresponding RA-RNTI in response to a PRACH transmission initiated by a PDCCH order that triggers a contention-free random access procedure for the SpCell [11, TS 38.321], the UE may assume that the PDCCH that includes the DCI format 1\_0 and the PDCCH order have same DM-RS antenna port quasi co-location properties. If the UE attempts to detect the DCI format 1\_0 with CRC scrambled by the corresponding RA-RNTI in response to a PRACH transmission initiated by a PDCCH order that triggers a contention-free random access procedure for a secondary cell, or if the UE is configured with *twoTAGs* for the SpCell and the CORESET where the UE receives the PDCCH order that triggers a contention-free random access procedure for the SpCell is not associated with the physical cell ID for the serving cell, the UE may assume the DM-RS antenna port quasi co-location properties of the CORESET associated with the Type1-PDCCH CSS set for receiving the PDCCH that includes the DCI format 1\_0 and the PDSCH scheduled by the DCI format 1\_0.

 < Unchanged parts are omitted >