**3GPP TSG-RAN WG1 Meeting #1170xxxx**

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **4** | **CR** |  | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *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 spCellInclusion for LTM | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Moderator (Fujitsu), Ericsson, Google, Huawei, HiSilicon, Nokia | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_Mob\_enh2 | | | | |  | ***Date:*** | | | 2024-05-21 |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***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) Rel-20 (Release 120)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The definition of which cells entries in the *ltm-CSI-SSB-ResourceList* / *ltm-CandidateIdList* is difficult to understand. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Clarify the conditions for which cell is the SpCell in the list of LTM candidate cells | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | It would be unclear which cell is the SpCell in the *ltm-CSI-SSBResourceList* | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 5.2.1.4.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | **Isolated Impact Analysis:**  This CR has no isolated impact on network and UE behavior. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | This is the first version of this CR. | | | | | | | | |

5.2.1.4.2 Report quantity configurations

<Unchanged parts omitted>

If a UE is configured with a *LTM-CSI-ReportConfig*,

- if the UE is configured with *spCellInclusion*, the UE shall report in a single reporting instance *nrOfReportedRS-PerCell* different SSBRIfor the current SpCell and each of the *nrOfReportedCells -1* candidate cells.Otherwise, the UE shall report in a single reporting instance *nrOfReportedRS-PerCell* different SSBRI for each of the *nrOfReportedCells* candidate cells,

- where SSBRI *k* (*k* ≥ 0) corresponds to the configured (*k*+1)-th entry of the associated *ltm-CSI-SSB-ResourceList* in the corresponding *LTM-CSI-SSB-ResourceSet*,

- if *spCellInclusion* is configured, SSB resources in *ltm-CSI-SSB-ResourceList* associated with the current SpCell are the entries where PCI (given by *ltm-CandidatePCI*) and frequency information (given by *ssbFrequency*) of the candidate cell associated with the *LTM-CandidateId* (given by the corresponding entry in *ltm-CandidateIdList*) is equal to the PCI and center frequency of cell-defining SSB of the current SpCell.

If the UE is configured with a *CSI-ReportConfig* that contains a list of sub-configurations provided by *csi-ReportSubConfigList*, the UE can only be configured with NZP CSI-RS for interference measurement if each sub-configuration is configured with [*powerOffse*t] and not configured with [*port-subsetIndicator*].