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

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

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

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| ***Title:***  | Correction on spCellInclusion for LTM |
|  |  |
| ***Source to WG:*** | Moderator (Fujitsu), Ericsson |
| ***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 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 120)* |
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| ***Reason for change:*** | The definition of which cells entries in the *ltm-CSI-SSB-ResourceList* / *ltm-CandidateIdList* is difficult to understand.  |
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| ***Summary of change:*** | Clarify the conditions for which cell is the SpCell in the list of LTM candidate cells |
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| ***Consequences if not approved:*** | It would be unclear which cell is the SpCell in the *ltm-CSI-SSBResourceList* |
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| ***Clauses affected:*** | 5.2.1.4.2 |
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|  | **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 ... |
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| ***Other comments:*** | **Isolated Impact Analysis:**This CR has no isolated impact on network and UE behavior. |
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| ***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*].