**3GPP TSG-RAN WG3 Meeting #119bis-e *R3-23xxxx***

**Online, 17th – 26th April, 2023**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.300** | **CR** |  | **rev** |  | **Current version:** | **17.4.0** |  |
|  | | | | | | | | |
| *For* ***[HE](http://www.3gpp.org/3G_Specs/CRs.htm" \l "_blank)******[LP](http://www.3gpp.org/3G_Specs/CRs.htm" \l "_blank)*** *on using this form: comprehensive instructions can be found at  <http://www.3gpp.org/Change-Requests>.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **x** | Core Network |  |

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| ***Title:*** | Network energy saving techniques | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | ZTE | | | | | | | | | |
| ***Source to TSG:*** | R3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | Netw\_Energy\_NR-Core | | | | |  | ***Date:*** | | | 2023-04-24 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***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:*** | | The WID on Network energy savings for NR was approved in RP-230566. This CR is to specify the functions, and update relevant parts of the stage 2. | | | | | | | | |
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| ***Summary of change:*** | | * Support the inter-node beam activation between the neighboring NG-RAN nodes. | | | | | | | | |
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| ***Consequences if not approved:*** | | No support of the Rel-18 energy saving features of high layer. | | | | | | | | |
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| ***Clauses affected:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | TS 38.473 CR 1129  TS 38.423 | | |
| ***affected:*** | |  | **x** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **x** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Rev0: create | | | | | | | | |

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#### 15.5.5.3 Dynamic coverage configuration changes

An NG-RAN node may autonomously adjust within and switch between coverage configurations. When a change is executed, a NG-RAN node may notify its neighbour NG-RAN nodes using the NG-RAN NODE CONFIGURATION UPDATE message with the list of cells and SSBs with modified coverage included. The list contains the CGI of each modified cell with its coverage state indicator and optionally the SSB index of each modified SSB with its coverage state indicator.

The coverage state indicator may be used at the receiving NG-RAN node to adjust the functions of the Mobility Robustness Optimisation, e.g. by using the coverage state indicator to retrieve a previously stored Mobility Robustness Optimisation state. The coverage state indicator may also be used at the receiving NG-RAN node to adopt coverage configurations matching with neighbouring cells coverage configurations. Upon receiving the coverage state indicator, if needed, e.g. the receiving node (e.g. in the coverage-layer) determines coverage optimization for user densities, it can request a neighbouring NG-RAN node to switch on certain SSB beams previously reported as inactive.

If the list includes indication about planned reconfiguration and possibly a list of replacing cells, the receiving NG-RAN node may use this to avoid connection or re-establishment failures during the reconfiguration. Also, if the sending NG-RAN node adds cells in inactive state, the receiving NG-RAN node may use this information to avoid connection or re-establishment failures. The receiving NG-RAN node may also use the notification to reduce the impact on mobility. The receiving NG-RAN node should avoid triggering handovers towards cell(s) that are indicated to be inactive.

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