**3GPP TSG-SA5 Meeting #162 *S5-253919d1***

Göteborg, Sweden, 25 - 29 August 2025

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **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 |  | Radio Access Network | **X** | Core Network |  |

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| ***Title:*** | Rel-19 CR 28.552 PM for intra-CU conditional LTM | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | SA5 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | PM\_KPI\_5G\_Ph4 | | | | |  | ***Date:*** | | | 2025-08-15 |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***Release:*** | | | Rel-19 |
|  | *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)* | |
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| ***Reason for change:*** | | Observability for Rel-19 conditional LTM is missing. | | | | | | | | |
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| ***Summary of change:*** | | Addition of intra-gNB conditional LTM.  Clarification that measurements for non-conditional LTM cell switches are just that. | | | | | | | | |
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| ***Consequences if not approved:*** | | OAM will be unable to do basic measurements of the performance of intra-CU conditional LTM, as well as comparing LTM performance with other mobility mechanisms. | | | | | | | | |
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| ***Clauses affected:*** | | 5.1.1.6.14, 5.1.1.6.14.1, 5.1.1.6.14.2, 5.1.1.6.14.3, 5.1.1.6.x (new), 5.1.1.6.x.1 (new), 5.1.1.6.x.2 (new), 5.1.1.6.x.3 (new) | | | | | | | | |
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|  | | **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:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

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| **First change** |

##### 5.1.1.6.14 Intra-gNB non-conditional LTM Cell Switches

###### 5.1.1.6.14.1 Number of configured non-conditional LTM Cell Switch candidates

a) This measurement provides the number of outgoing intra-gNB non-conditional LTM Cell Switch candidates requested by the source NRCellCU.

b) CC.

c) On transmission of *RRCReconfiguration* message (TS 38.331 [20] clause 5.3.5), where the message denotes a non-conditional LTM Cell Switch configuration, to the UE configuring an intra-gNB LTM Cell Switch from the source NRCellCU to the target NRCellCU. The counter on NRCellCU is incremented by the number of candidates configured in the *LTM-Candidate* IE. The counter on NRCellRelation is incremented by 1 for each relation that is present in the *LTM-Candidate* IE.

d) A single integer value.

e) MM.ConfigIntraReqLTMCellSwitch.

f) NRCellCU;  
NRCellRelation.

g) Valid for packet switched traffic.

h) 5GS.

i) One usage of this performance measurement is for performance assurance.

###### 5.1.1.6.14.2 Number of UEs configured with non-conditional LTM Cell Switch

a) This intra-gNB handover measurement provides the number of UEs that has been configured with non-conditional LTM Cell Switch by the source cell.

b) CC.

c) On transmission of *RRCReconfiguration* message (TS 38.331 [20] clause 5.3.5), where the message denotes a non-conditional LTM Cell Switch configuration, to the UE configuring an intra-gNB LTM Cell Switch from the source NRCellCU to the target NRCellCU, the counter on NRCellCU is incremented by 1, and the counter on NRCellRelation is incremented by 1.

d) A single integer value.

e) MM.ConfigIntraReqLTMCellSwitchUes.

f) NRCellCU;  
NRCellRelation.

g) Valid for packet switched traffic.

h) 5GS.

i) One usage of this performance measurement is for performance assurance.

###### 5.1.1.6.14.3 Number of successful non-conditional LTM Cell Switches

a) This measurement provides the number of successful intra-gNB non-conditional LTM Cell Switch executions received by the source NRCellCU.

b) CC.

c) On reception of *RRCReconfigurationComplete* message (see TS 38.331 [20] clause 5.3.5) from the UE to the target NRCellCU indicating a successful intra-gNB non-conditional LTM Cell Switch, the counter is incremented by 1.

d) A single integer value.

e) MM.LTMCellSwitchExeIntraSucc.

f) NRCellCU;  
NRCellRelation.

g) Valid for packet switched traffic.

h) 5GS.

i) One usage of this performance measurement is for performance assurance.

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| **Next change** |

##### 5.1.1.6.x Intra-gNB LTM conditional cell switches

###### 5.1.1.6.x.1 Number of configured conditional intra-gNB LTM cell switch candidates

a) This measurement provides the number of outgoing intra-gNB conditional LTM cell switch candidates requested by the source NRCellCU.

b) CC.

c) On transmission of *RRCReconfiguration* message (TS 38.331 [20] clause 5.3.5), where the message denotes a conditional LTM cell switch configuration, to the UE configuring an intra-gNB conditional LTM cell switch from the source NRCellCU to the target NRCellCU. The counter on NRCellCU is incremented by the number of candidates configured. The counter on NRCellRelation is incremented by 1 for each relation that has a candidateconfigured for conditional LTM.

d) A single integer value.

e) MM.ConfigIntraReqCondLTM.

f) NRCellCU;  
NRCellRelation.

g) Valid for packet switched traffic.

h) 5GS.

i) One usage of this performance measurement is for performance assurance.

###### 5.1.1.6.x.2 Number of UEs configured for intra-CU conditional LTM cell switches

a) This intra-gNB conditional LTM measurement provides the number of UEs that has been configured for conditional LTM cell switch by the source cell.

b) CC.

c) On transmission of *RRCReconfiguration* message (TS 38.331 [20] clause 5.3.5), where the message denotes a conditional LTM cell switch configuration, to the UE configured with an intra-gNB conditional LTM cell switch from the source NRCellCU to the target NRCellCU, the counter is stepped by 1. The counter shall only be stepped by 1 even if several *RRCReconfiguration* messages are sent to the UE during a cell dwelling time.

d) A single integer value.

e) MM.ConfigIntraReqCondLTMUes.

f) NRCellCU.

g) Valid for packet switched traffic.

h) 5GS.

i) One usage of this performance measurement is for performance assurance.

###### 5.1.1.6.x.3 Number of successful intra-CU conditional LTM cell switch executions

a) This measurement provides the number of successful intra-gNB conditional LTM cell switch executions received by the source NRCellCU.

b) CC.

c) On reception of *RRC ReconfigurationComplete* message (see TS 38.331 [20] clause 5.3.5) from the UE to the target NRCellCU indicating a successful intra-gNB LTM cell switch, the counter is stepped by 1.

d) A single integer value for each subcounter.

e) MM.CondLTMExeIntraSucc.

f) NRCellCU;  
NRCellRelation.

g) Valid for packet switched traffic.

h) 5GS.

i) One usage of this performance measurement is for performance assurance.

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| **End of changes** |