**3GPP TSG- Meeting #**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
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|  | **28.552** | **CR** | **0722** | **rev** | **1** | **Current version:** | **19.4.0** |  |
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| *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 TS 28.552 Add Multicast Group Paging records for MBS measurement |
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| ***Source to WG:*** | China Telecom Corporation Ltd. |
| ***Source to TSG:*** | S5 |
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| ***Work item code:*** | PM\_KPI\_5G\_Ph4 |  | ***Date:*** | 2025-08-15 |
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| ***Category:*** | **B** |  | ***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 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-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
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| ***Reason for change:*** | Monitoring Multicast Group Paging records can help to properly dimension the resources for paging the MBS session in the NR cell. Therefore, it is necessary to add the measurements of Multicast Group Paging records for MBS. |
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| ***Summary of change:*** | Add MBS Session related measurements：- Number of CN Initiated multicast group paging records received by the gNB-CU- Number of NG-RAN Initiated multicast group paging records received by the gNB-CU- Number of CN Initiated multicast group paging records discarded at the gNB-CU- Number of NG-RAN Initiated multicast group paging records discarded at the gNB-CU- Number of multicast group paging records discarded at the NRCellDU |
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| ***Consequences if not approved:*** | Cannot monitor Multicast Group Paging records for MBS measurement. |
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| ***Clauses affected:*** | 5.1.1.27.x(new), 5.1.1.27.11 |
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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 ...  |
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| ***Other comments:*** |  |
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| ***This CR's revision history:*** |  |

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| **1st change** |

###### 5.1.1.27.11 Void

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| **2nd change** |

#### 5.1.1.27.x Multicast Group Paging

###### 5.1.1.27.x.1 Number of CN Initiated multicast group paging records received by the gNB-CU

a) This measurement provides number of CN Initiated multicast group paging records received by the gNB-CU.

b) CC.

c) Reception of a MULTICAST GROUP PAGING message from AMF (See in TS 38.413 [11]).

d) A single integer value.

e) PAG.ReceivedMBSNbrCnInitiated.

f) GNBCUCPFunction

g) Valid for packet switched traffic

h) 5GS

###### 5.1.1.27.x.2 Number of NG-RAN Initiated multicast group paging records received by the gNB-CU

a) This measurement provides numbeof NR RAN Initiated multicast group paging records received by the gNB-CU.

b) CC.

c) Reception of a RAN MULTICAST GROUP PAGING message from NR RAN (See in TS 38.304 [37] and TS 38.423 [13]).

d) A single integer value.

e) PAG.ReceivedMBSNbrRanInitiated.

f) GNBCUCPFunction

g) Valid for packet switched traffic

h) 5GS

###### 5.1.1.27.x.3 Number of multicast group paging records received by the NRCellDU

a) This measurement provides number of paging records received by gNB-DU which shall perform paging of the MBS Session identified by the *MBS Session ID* IE (See in TS 38.473 [6]).

b) CC.

c) Reception of a MULTICAST GROUP PAGING message from gNB-CU (See in TS 38.473 [6]).

d) A single integer value.

e) PAG.ReceivedMBSNbr.

f) NRCellDU

g) Valid for packet switched traffic

###### 5.1.1.27.x.4 Number of CN Initiated multicast group paging records discarded at the gNB-CU

a) This measurement provides number of CN Initiated multicast group paging records discarded at the gNB-CU.

b) CC.

c) Reception of a MULTICAST GROUP PAGING message from AMF, (See in TS 38.413 [11]) that is discarded at the gNB-CU.

d) A single integer value.

e) PAG.DiscardedMBSNbrCnInitiated

f) GNBCUCPFunction

g) Valid for packet switched traffic

h) 5GS

###### 5.1.1.27.x.5 Number of NG-RAN Initiated multicast group paging records discarded at the gNB-CU

a) This measurement provides number of NG-RAN Initiated multicast group paging records discarded at the gNB-CU.

b) CC.

c) Reception of a RAN MULTICAST GROUP PAGING message from NG-RAN (See inTS 38.304 [37] and TS 38.423 [13]) that is discarded at the gNB-CU.

d) A single integer value.

e) PAG.DiscardedMBSNbrRanInitiated

f) GNBCUCPFunction

g) Valid for packet switched traffic

h) 5GS

###### 5.1.1.27.x.6 Number of multicast group paging records discarded at the NRCellDU

a) This measurement provides number of multicast group paging records discarded at gNB-DU which shall perform paging of the MBS Session identified by the *MBS Session ID* IE (See in TS 38.473 [6]).

b) CC.

c) Reception of a MULTICAST GROUP PAGING message from gNB-CU, (See in TS 38.473 [6]) that is discarded at the gNB-DU.

d) A single integer value.

e) PAG.DiscardedMBSNbr

f) NRCellDU

g) Valid for packet switched traffic

h) 5GS

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| **End of change** |