**3GPP TSG-RAN WG3 Meeting #114-e *R3-215973***

**E-meeting, 1-11 Nov 2021**

**Agenda item: 22.2.2**

**Source:**  **Lenovo, Motorola Mobility, Huawei, Qualcomm Incorporated**

**Title:** (**TP to TS 38.423 BL CR) RAN Multicast Group Paging**

**Document for: Other**

# **1 Introduction**

In this contribution, the text proposal are provided for the XnAP BL CR according to the proposal in [1]；

**Proposal 6: The XnAP: RAN MULTICAST GROUP PAGING message carries the following information:**

* **MBS Session ID**
* **RAN Paging Area**
* **(Optional) Paging UE List {UE Identity Index value, DRX value, RAN Paging Area}**

[1] R3-215138 Consideration on Multicast Session Management. Huawei, CBN, Lenovo, Motorola Mobility, Qualcomm Incorporated, China Unicom, China Telecom.

# **2 Text Proposal**

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### X.X.X RAN Multicast Group Paging

#### X.X.X.1 General

The purpose of the RAN Multicast Group Paging procedure is to enable the NG-RAN node1 to request paging of UEs that have joined a MBS Session in the NG-RAN node2.

The procedure uses non UE-associated signalling.

#### X.X.X.2 Successful operation



Figure 8.2.5.2-1: RAN Multicast Group Paging: successful operation

The RAN Multicast Group Paging procedure is triggered by the NG-RAN node1 by sending the RAN MULTICAST GROUP PAGING message to the NG-RAN node2,in which the necessary information e.g. the *MBS Session ID* IE and the *UE Identity Index* *List* IE associated with the MBS session should be provided.

When available, the NG-RAN node1 shall include the *UE Specific DRX* IE in the RAN MULTICAST GROUP PAGING message towards the NG-RAN node2. If the *UE specific DRX* IE is included in the RAN MULTICAST GROUP PAGING message, the NG-RAN node2 shall, if supported, use it according to TS 38.304 [33].

----------------------------------------------------------Next Change --------------------------------------------------------------

#### X.X.X.X RAN MULTICAST GROUP PAGING

This message is sent by the NG-RAN node1 to NG-RAN node2 to page UEs for an multicast session.

Direction: NG-RAN node1 → NG-RAN node2.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| Message Type | M |  | 9.2.3.1 |  | YES | ignore |
| MBS Session ID | M |  | FFS |  | YES | ignore |
| **UE Identity Index List** |  | 0..1 |  |  | YES | reject |
| **>UE Identity Index Item** |  | 1 .. <maxnoofUEsofMBSPaging> |  |  | - | - |
| >> CHOICE *UE Identity Index Value* | M |  |  |  | - | - |
| *>>>Length-10* |  |  |  |  |  |  |
| >>>>Index Length-10 | M |  | BIT STRING (SIZE(10)) | Coded as specified in TS 38.304 [33]. | – | - |
| >>UE Specific DRX | O |  | 9.2.3.143 | Includes the UE specific paging cycle as defined in TS 38.304 [33]. | - | - |
| >>UE Specific RAN Paging Area | O |  | RAN Paging Area  9.2.3.38 | Indicates UE specific RAN Paging Area. If the *UE specific RAN Paging Area* IE is included, the gNB-DU ignores the *RAN Paging Area* IE for this UE. |  |  |
| RAN Paging Area | O |  | 9.2.3.38 |  | YES | reject |
| Paging Priority (FFS) | O |  | 9.2.3.44 |  | YES | ignore |