**3GPP TSG-RAN WG3 Meeting #113-e R3-213556**

**E-meeting, 16-26 Aug 2021**

**Title:** (TP to TS 38.410 BL CR) Multicast Session Management

**Source:** Huawei, CBN, China Unicom, Lenovo, Motorola Mobility, Qualcomm Incorporated, China Telecom

**Agenda item:** 22.2.2

**Document Type:** Other

# 1. Introduction

Based on the discussion in [1], there are several new NGAP procedures to be introduced:

Proposal 3: Introduce non UE associated class1 NGAP: Session activation/deactivation procedures for Multicast Session Management.

Proposal 4: Introduce NGAP: GROUP PAGING message to support group paging from CN to RAN. And the NGAP: GROUP PAGING message includes:

* MBS Session ID
* TAI List
* Service Area

Proposal 6: Introduce a non-UE associated class1 NGAP: Multicast Distribution Setup procedure, triggered by the gNB:

* in case the gNB decides or is configured to use unicast transport for multicast distribution sessions, it includes the DL GTP-U tunnel info in the Multicast Distribution Setup Request.
* in case the DL GTP-U tunnel info is not included in the Multicast Distribution Setup Request, the core network shall provide IP multicast DL tunnel info to the gNB, to enable IP multicast transport.

**The Text Proposal to TS 38.410 BL CR is provided in section 3.**

# 2. Reference

1. R3-213555 Consideration on Multicast Session Management, Huawei, CBN, China Unicom, Lenovo, Motorola Mobility, Qualcomm Incorporated, China Telecom

# 3. Text Proposal to BL CR of TS 38.410

***-----------------Start of the Changes-------------------***

# 5 Functions of the NG interface

## 5.1 General

The following clauses describe the functions supported over the NG interface.

***//skip unchanged part***

## 5.5 PDU Session Management function

The PDU Session Management function is responsible for establishing, modifying and releasing the involved PDU sessions NG-RAN resources for user data transport once a UE context is available in the NG-RAN node.

NGAP supports transparent relaying of PDU Session and MBS Session related information by the AMF as described in TS 23.502 [6].

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5.xx NR MBS Session Management function

The MBS Session Management function is responsible for establishing, modifying and releasing the involved NR MBS sessions NG-RAN resources for user data transport once an MBS context is available in the NG-RAN node.

5.yy Group Paging Function

The group paging function supports the sending of paging requests to the NG-RAN nodes involved in the group paging area i.e. the NG-RAN nodes of the TA(s) the UEs have joined the MBS Session.

# 6 Signalling procedures of the NG interface

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6.xx NR MBS Session Management Procedures

The following list of MBS Session management procedures are used to establish, release, or modify NG-RAN resources for a NR MBS session:

- Broadcast Session Resource Setup;

- Broadcast Session Resource Release;

- Multicast Session Activation;

- Multicast Session Deactivation;- Multicast Distribution Setup;

- Multicast Distribution Release

6.yy Group Paging Procedures

The following group paging procedure is used to send group paging requests to the NG-RAN nodes involved in the group paging area:

- Group Paging.

***-----------------End of the Changes-------------------***