**3GPP TSG-RAN WG3 #122 R3-237869**

**Chicago, USA, 13th – 17th Nov, 2023**

Agenda Item: 15.3

Source: CATT

Title: (TP to BLCR for TS 38.470) Support of MBS reception in RRC\_Inactive state

Document for: Approval

# Introduction

According to the following agreements in R3-237895, we provide TP to BLCR for TS 38.470.

**To introduce SIBx in the gNB-DU System Information IE.**

**Introduce a new F1AP procedure to deliver IEs including *MBS-NeighbourCellList* IE , *thresholdMBS-List* IE, *RRC Multicast MTCH Neighbour Cell Information* IE and *ThresholdIndex* IE**

**Explicit indication is introduced to indicate the multicast RRC Inactive reception mode activation/deactivation.**

**Explicit indication is introduced to indicate stop of broadcasting *RRC Multicast MTCH Neighbour Cell Information* IE and *ThresholdIndex* IE**

**Removal Editor’s note on *MBS Multicast Configuration Response Information* IE**

**Replace the current Editor’s Note on *Indication for Multicast RRC\_INACTIVE Reception* IE with the semantic description “Corresponds to information contained the inactiveReceptionAllowed as specified in TS 38.331 [8].”**

# TP to 38.470

### 5.2.2 System Information management function

Scheduling of system broadcast information is carried out in the gNB-DU. The gNB-DU is responsible for transmitting the system information according to the scheduling parameters available.

The gNB-DU is responsible for the encoding of the NR-MIB message. In case broadcast of SIB1 and other SIBs is needed, the gNB-DU is responsible for the encoding of the SIB1 message, SIB10, SIB12, SIB13, SIB14, SIB15, SIB17, SIB18, SIB20 and SIBX, and the gNB-CU is responsible for the encoding of other SIBs. The gNB-DU may re-encode SIB9. The gNB-DU is responsible for the generation of the SystemInformation message.

NOTE: The SIB19 is generated by the gNB-DU.

The gNB-CU is responsible for receiving the positioning assistance information from LMF, e.g the positioning related SIBs. The gNB-CU transparently sends the positioning assistance information to the gNB-DU. The gNB-DU is responsible for broadcasting the positioning assistance information in Positioning SI message(s).

To support Msg3 based on-demand SI and RRC Dedicated SIB Request as described in TS 38.331 [11], the gNB-CU can confirm the received SI request from the UE by including the UE identity, and command the gNB-DU to broadcast the requested *SystemInformation* messages including the other SI.

To support UE RRC Positioning SI acquisition mechanism, as described in TS 38.331 [11], the gNB-CU can confirm the received positioning SI request from the UE by including the UE identity, and command the gNB-DU to broadcast the requested positioning SI messages.

***-----------------Next Change-------------------***

### 6.1.13 NR MBS procedures

The F1 MBS procedures are listed below:

- Broadcast Context Setup;

Broadcast Context Release (gNB-CU initiated);

- Broadcast Context Modification;

- Broadcast Context Release Request (gNB-DU initiated);

- Multicast Group Paging procedure;

- Multicast Context Setup;

- Multicast Context Release (gNB-CU initiated);

- Multicast Context Modification;

- Multicast Context Release Request (gNB-DU initiated);

- Multicast Distribution Setup;

- Multicast Distribution Release;

- Multicast Context Notification;

- Multicast Common Configuration.

***-----------------End of the Change-------------------***