**3GPP TSG-RAN WG3 #127bis R3-25xxxx**

**Wuhan, China, April 7th – 11th, 2025**

**Source:** **CATT, Ericsson, Huawei, Samsung, China Telecomm, Rakuten, ZTE, CMCC, Lenovo**

**Title:** **(TP to BLCR for TS 38.300) Introduction of OD-SIB1**

**Agenda Item:** **17.3**

**Document for:** **Approval**

# 1 Introduction

The TP to BL CR for TS38.300 for introducing on-demand SIB1 is provided based on the agreements achieved in previous RAN3 meetings[1][2] as well as the on-going 38.300 running CR for Rel-19 NES in RAN2.

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| *RAN3#126:***The purpose of the new XnAP procedure is to enable an NG-RAN node1 to provide UL WUS configuration information to NG-RAN node2.****The procedure uses non UE-associated signaling.****Cell A stores the UL WUS configuration information after it has received it.** **A Class 2 procedure is to be introduced for Cell A gNB to signal to NES Cell gNB that it stops the UL WUS configuration broadcast in its SIB.****The procedure uses non UE-associated signalling.***RAN3#127:***It is agreed that after Cell A gNB has received and accepted the UL WUS Configuration request from the NES Cell gNB, it broadcasts in SIBx at the first opportunity.****It is agreed from the signalling point of view, in UL WUS Configuration Provision Request (naming to be further discussed) from NES Cell gNB to Cell A gNB, one option is “start with UL WUS Configuration”. This codepoint/choice is used to trigger Cell A to broadcast UL WUS configuration in SIBx.****It is agreed that NES Cell gNB can “stop” (naming to be further discussed) Cell A to broadcast UL WUS configuration.** |

The 38.200 running CR on-going in RAN2:

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| 15.4.2.x2 On-demand SIB1To facilitate reducing gNB downlink transmissions, the gNB can provide SIB1 on-demand, i.e., upon receiving OD-SIB1 request from the UE. On-demand SIB1 is supported for UEs in RRC\_IDLE, RRC\_INACTIVE and RRC\_CONNECTED when T311 is running. A request for SIB1 triggers a random access procedure, in which case MSG1 is used for indicating OD-SIB1 request and the gNB acknowledges the request in MSG2. UL-WUS configurations of one or more cells are included in SIBxx, which can be broadcasted in any cell, including cell’s own UL-WUS configuration. While the UE is camped on a cell, it can use the UL-WUS configuration of another cell from SIBxx valid in the camped cell to acquire OD-SIB1 of that cell for cell reselection or it can apply the UL-WUS configuration of the camped cell from SIBxx valid in the camped cell to acquire OD-SIB1 of the camped cell. |

# 2 Reference

1. Draft Report of 3GPP TSG RAN3 meeting #126, MCC
2. Draft Report of 3GPP TSG RAN3 meeting #127, MCC

# 3 TP to BL CR for TS38.300

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15.4.2.x2 On-demand SIB1

To facilitate reducing gNB downlink transmissions, the gNB can provide SIB1 on-demand, i.e., upon receiving OD-SIB1 request from the UE. On-demand SIB1 is supported for UEs in RRC\_IDLE, RRC\_INACTIVE and RRC\_CONNECTED when T311 is running. A request for SIB1 triggers a random access procedure, in which case MSG1 is used for indicating OD-SIB1 request and the gNB acknowledges the request in MSG2. UL-WUS configurations of one or more cells are included in SIBxx, which can be broadcasted in any cell, including cell’s own UL-WUS configuration. While the UE is camped on a cell, it can use the UL-WUS configuration of another cell from SIBxx valid in the camped cell to acquire OD-SIB1 of that cell for cell reselection or it can apply the UL-WUS configuration of the camped cell from SIBxx valid in the camped cell to acquire OD-SIB1 of the camped cell.

On-demand SIB1 for energy saving foresees a gNB to send UL-WUS configuration information of the cell providing OD-SIB1 on request of UE to other gNB(s) and request one or more cells to start broadcast the UL-WUS configuration over the Xn interface. The gNB receiving the UL-WUS configuration information then broadcasts it in SIBxx of the relevant cell(s). Also, the gNB can indicate other gNB(s) not to broadcast the UL-WUS configuration which has been provided to those gNB(s), e.g., in case it reverts to periodically broadcasting SIB1. If a gNB in charge of the broadcast decides to stop broadcasting a UL-WUS configuration by itself, it informs the gNB requesting the broadcast over the Xn interface.---------------------------------------END OF TP -------------------------------------------