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

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

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

**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 as well as the agreements made in RAN3#127bis.

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| *RAN3#127bis:*  **In the new Class 1 message (Direction NES gNB to Cell A gNB), RAN3 has agreed that:**   * **One Choice “Start with UL WUS Condiguration”** * **One Choice “Stop” meaning the Cell A gNB will remove/release/discard the UL WUS Configuration and stop the broadcasting, it also means that next time the NES gNB should use “Start with UL WUS Configuration”.**. |

# 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 for the cell of OD-SIB1 to other gNB(s) over the Xn interface and request starting broadcast the UL-WUS configuration in one or more cells. The gNB receiving the UL-WUS configuration information then broadcasts it in SIBxx of the relevant cell(s). Also, the gNB can inform other gNB(s) to discontinue broadcasting 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.

Editor’s Note: This paragraph may need to be refined in future.

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