**3GPP TSG-RAN WG3 #128 R3-25xxxx**

**St. Julien, Malta, 19th – 23rd May 2025**

**Agenda Item: 17.X**

**Source: Ericsson (Moderator)**

**Title: Summary of offline discussions: Rel-19 Network Energy Saving OD-SIB1**

**Document for: Discussion and Approval**

# Introduction

**Early RAN3 agreements (from 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 Configuration”;
* 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”.

# For the Chairman’s Notes

TBD

# 3 Discussion on Support on-demand SIB1 for UEs

3.1 Related to the WUS Configuration Provision Request, choice of “Start”

* Should one “WUS Configuration Provision Request” contain one WUS Configuration or multiple WUS Configurations?
* Should each UL WUS Configuration contain:
  + the “octet string” format “WUS Config” that we can refer to TS 38.331;
  + One NES Cell ID or a list of NES Cell IDs what share the same UL WUS Configuration?
  + One Cell-A ID or a list of Cell-A IDs that should broadcast the UL WUS Configuration?

3.2 Related to the “WUS Configuration Provision Response/Failure”

The discussion should be based on the decisions we are going to make for 3.1.

* What is considered to be a “sucessful”, i.e. Cell A gNB will send “WUS Configuration Provision Response”
  + when all the indicated Cell A Cells have broadcasted the UL WUS?
  + When at least one indicated Cell A Cells has broadcasted the UL WUS ( but not all)?
* What is considered to be a “failure”, i.e. Cell A gNB will send “WUS Configuration Provision Failure”
  + At least one indicated Cell A Cells cannot perfrom broadcasting WUS Configuration
    - The list of the failled Cell As are included in the failure message or not?
  + All the indicated Cell A Cells cannot perfrom broadcasting WUS Configuration

3.3 Related to the WUS Configuration Provision Request, choice of “Stop”

* The “Priovision ID” is included in the “Request”, in the “Stop” message, the “given Provision ID” associated UL WUS Configuration is remove/release/discard and the broadcast of UL WUS Configuraiton is stopped.
* The NES Cell list is included, all the indicated NES Cells UL WUS Configuration broadcasting is stopped ( and the configuration is removed/released/discarded).
* The “Stop” operation is always sucessful.

3.3 Related to the NES Cell CU and NES Cell DU

* Before the gNB-DU can determine if it can send the “on-demand SIB1 IE” to gNB-CU, receive a permission list from gNB-CU, similar to the “allowed to be deactived list” in obj 1?
* After gNB-DU has sent the on-demand SIB1 IE” to gNB-CU, it will receive “confirmation” from gNB-CU that the UL WUS Configuration is broadcasoed, so that it can enter the OD-SIB1 operation.

3.4 Related to the Cell-A CU and Cell-A DU

* Should the UL WUS Configuration SIBx be encoded by Cell-A CU or Cell-A DU?

3.5 Related to the WUS Configuration Provision Request, we have already start and stop, if we need to have more choice option?

3.6 The following is up to implemenation or by OAM or need update the specification

* NES Cell goes to OD-SIB1 operation after it has received the suceesful response from the Cell A is up to implemenation
* Which gNB works as “Cell A gNB” for the other gNB.

3.7 Discussion on class 2 message

# 4 Discussion on Support on-demand SSB Scell

New list?

Reuse the list?

# 5 Discussion on Support adaptive

# 6 Moderator Summary

# 7 Reference