3GPP TSG-RAN WG3 Meeting #127 R3- 250845

Athens, Greece, February 17th – 21st 2025

Agenda Item: 17.3

Source: Ericsson, Deutsche Telekom, China Unicom, CMCC, Lenovo, NEC

Title: Xn impact of On-demand SIB1 for UEs in idle/inactive mode

Document for: Other

# Introduction

This TP implements the agreements (as in below) from RAN3#127 meeting.

# Conclusion

[Proposal 1 It is agreed that “after Cell A gNB has received and accepted the UL WUS Configuration request from the NES Cell gNB, it broadcasts SIB at the first opportunity.](#_Toc189145132)

**[Proposal 2 It is agreed from the signalling point of view, in UL WUS Configuration Request (naming FFS) 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 SIB as in Proposal 1.](#_Toc189145133)**

 Note: How to implement in the specification the option “start with UL WUS Configuration” is to be further refined.

1. Text Proposal for BL CR for TS 38.423

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Start of TP \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Editor’s Note: The procedure, message and the IE names are FFS

### 8.x.x UL WUS Configuration Provision (FFS)

#### 8.x.x.1 General

The purpose of the UL WUS Configuration Provision procedure is to enable an NG-RAN node1 to provide UL WUS configuration information to NG-RAN node2 “and request NG-RAN node2 to transmit UL WUS configuration information (FFS)”.

“The procedure is also used to enable an NG-RAN node1 to request NG-RAN node2 to discontinue transmission of UL WUS configuration. (FFS)”

The procedure uses non UE-associated signaling.

#### 8.x.x.2 Successful Operation



Figure 8.x.x.2-1: UL WUS Configuration Provision, successful operation

If “start with UL WUS Configuration” (details on this codepoint/choice of “start with UL WUS Configuration” are FFS) is included in the UL WUS CONFIGURATION PROVISION REQUEST (Naming FFS) message, Cell A gNB shall, if supported, broadcast UL WUS Configuration (Naming FFS) in SIBx (SIB naming FFS) and reply with the UL WUS CONFIGURATION PROVISION RESPONSE (Naming FFS) message. Cell A stores the UL WUS configuration information (Naming FFS).

“Cell A stores the UL WUS configuration information after it has been requested to be discontinued (FFS)”

“Cell A removes the UL WUS configuration information after it has been requested to be stopped (FFS)”

#### 8.x.x.3 Unsuccessful Operation



Figure 8.x.x.3-1: UL WUS Configuration Provision, unsuccessful operation

If Cell A gNB cannot broadcast UL WUS Configuration in SIBx (Naming FFS), or a failure occurs during UL WUS Configuration Provision (Naming FFS), the Cell A gNB shall send UL WUS CONFIGURATION PROVISION FAILURE (Naming FFS) message. The message shall contain the *Cause* IE with an appropriate value.

#### 8.x.x.4 Abnormal Conditions

Void.

### 8.x.y UL WUS Configuration Transmission Status Update (FFS)

#### 8.x.y.1 General

The procedure uses non UE-associated signalling.

#### 8.x.y.2 Successful Operation



Figure 8.x.y.2-1: UL WUS Configuration Transmission Status Update, successful operation

#### 8.x.y.3 Unsuccessful Operation

Not applicable.

#### 8.x.y.4 Abnormal Conditions

Void.

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of TP \*\*\*\*\*\*\*\*\*\*\*\*\*\*\***