**3GPP TSG-RAN WG4 Meeting #116 R4-2510915**

**Bengaluru, India, Aug 25th – 29th, 2025**

**Agenda item:** 7.23.2

**Source:** Ericsson

**Title:** Discussion on UE feature list for Rel-19 NES

**Document for:** Approval

1. Introduction

This contribution includes the RAN4 UE feature list for enhancements of network energy savings for NR in Rel-19. In the below table we propose to define the following capabilities based on RAN4 previous agreements for the work item.

**Proposal 1:**

#### **On-demand SSB SCell operation**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Features** | **Index** | **Feature group** | **Components** | **Prerequisite feature groups** | **Need for the gNB to know if the feature is supported** | **Applicable to the capability signalling exchange between UEs (V2X WI only)”.** | **Consequence if the feature is not supported by the UE** | **Type****(the ‘type’ definition from UE features should be based on the granularity of 1) Per UE or 2) Per Band or 3) Per BC or 4) Per FS or 5) Per FSPC)** | **Need of FDD/TDD differentiation** | **Need of FR1/FR2 differentiation** | **Capability interpretation for mixture of FDD/TDD and/or FR1/FR2** | **Note** | **Mandatory/Optional** |
|  | 52-2 | Additional processing time for OD-SSB activation and parameter update  | Indicates an additional processing time of 2ms in addition to T\_min = $m+3N\_{slot}^{subframe,μ}$+1 for reception of on-demand SSB bursts from the time when UE receives OD-SSB activation or parameter update MAC CE command.  | At least one among RAN1 feature of 61-3, 61-4, 61-4a | Yes | n/a | Additional processing time of 5ms in addition to T\_min = $m+3N\_{slot}^{subframe,μ}$+1 for reception of on-demand SSB bursts from the time when UE receives OD-SSB activation or parameter update MAC CE command.  | Per band | n/a | n/a | n/a | Note 1: Default value of additional processing time is 5 ms | Optional with capability signaling |