3GPP TSG-RAN WG4 Meeting #116 R4-2510911

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

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **38.133** | **CR** | **draftCR** | **rev** | **-** | **Current version:** | **19.1.0** |  |
|  |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network |  |

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|  |
| ***Title:***  | draftCR on Rel-19 LP-WUS introduction |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** |   |
|  |  |
| ***Work item code:*** | NR\_LPWUS-Core |  | ***Date:*** | 2025-07-07 |
|  |  |  |  |  |
| ***Category:*** | B |  | ***Release:*** | Rel-19 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
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| ***Reason for change:*** | 1. Rel-19 LP-WUS WI is completed. The requirement needs to be added to spec.
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| ***Summary of change:*** | 1. Add introduction sections for LP-WUS.
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| ***Consequences if not approved:*** | The spec. is missing. |
|  |  |
| ***Clauses affected:*** | 4.x, 4.x.1, 5.x, 5.x.1 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  |  |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  |  |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  |  |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

**---------------------- CHANGE---------------------------**

## 4.x IDLE mode measurement for LP-WUS operation

### 4.x.1 Introduction

The UE which supports *LP-WUS capability* in RRC\_IDLE shall be capable of:

* performing serving cell measurement based on LP-SS or SSB reception by LP-WUR.
* performing SSB based serving cell and neighbour cell measurement relaxation together with LP-SS or SSB based serving cell measurement by LP-WUR.

The UE shall perform LP-RSRP, LP-RSRQ or SS-RSRP, SS-RSRQ based serving cell measurement with OOK or SSB or overlaid OFDM sequence by LP-WUR defined in TS38.211[6] based on *LP-SS capability*.

**-------------------- END OF CHANGES--------------------------**

**---------------------- CHANGE---------------------------**

## 5.x INACTIVE mode measurement for LP-WUS operation

### 5.x.1 Introduction

The UE which supports *LP-WUS capability* in RRC\_INACTIVE shall be capable of:

* performing serving cell measurement based on LP-SS reception independently.
* performing SSB based serving cell and neighbour cell measurement relaxation together with LP-SS based serving cell measurement.

The UE shall perform LP-RSRP, LP-RSRQ or SS-RSRP, SS-RSRQ based serving cell measurement with OOK or SSB or overlaid OFDM sequence by LP-WUR defined in TS38.211[6] based on *LP-SS capability*.

**--------------------END OF CHANGES--------------------------**