**3GPP TSG-RAN4 Meeting #116 *R4-2512191***

**Bengaluru, India, 25th – 29th August, 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:*** | Draft CR for L1-CLI-RSSI measurement period | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | LG Electronics | | | | | | | | | |
| ***Source to TSG:*** | R4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_duplex\_evo-Core | | | | |  | ***Date:*** | | | 2025-08-14 |
|  |  | | | |  | |  | | |  |
| ***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 can be 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)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | L1 CLI measurement requirements are introduced in Rel-19 | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Measurement period requirement of L1-SRS-RSRP measurement | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | No measurement period requirement of L1-SRS-RSRP measurement which introded in Rel-19 | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 9.x.3.5 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | | TS/TR ... CR ... | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

**----------------------START OF CHANGE----------------------------**

#### 9.X.3.5 L1-CLI-RSSI measurement period

The UE capable of *supportL1-CLI-RSSI-Measurement* shall perform L1-CLI-RSSI measurement based on the configured L1-CLI-RSSI measurement resource. For periodic and semi-persistent L1-CLI-RSSI resource, the UE shall be capable of reporting L1-CLI-RSSI measured over measurement period of TL1-CLI\_RSSI\_measurement\_period for FR1 and FR2.

For the value of L1,

1> If UE does not support *supportSBFD* or SBFD is not configured by the network

2> L1=0

1> else if UE supports *supportSBFD* and SBFD is configured by the network

2> if higher layer parameter *timeRestrictionForChannelMeasurement* is configured

3> L1=0

2> else

3> if UE is configured to report L1- CLI-RSSI for SBFD symbols

4> When DRX is not configured, L1 is the number of occasions of the L1- CLI-RSSI resource that are overlapping with non-SBFD symbols during TL1-CLI-RSSI\_measurement\_period

4> When DRX is configured, L1 is the number of DRX cycles in which at least one occasion of the L1- CLI-RSSI resource is overlapping with non-SBFD symbols during TL1-CLI-RSSI\_measurement\_period

3> if UE is configured to report L1- CLI-RSSI for non-SBFD symbols

4> When DRX is not configured, L1 is the number of occasions of the L1- CLI-RSSI resource that are overlapping with SBFD symbols, during TL1-CLI-RSSI\_measurement\_period

4> When DRX is configured, L1 is the number of DRX cycles in which at least one occasion of the L1- CLI-RSSI resource is overlapping with SBFD symbols, during TL1-CLI-RSSI\_measurement\_period

Table 9.X.3.5‑1 Measurement period TL1-CLI\_RSSI\_measurement\_period

|  |  |
| --- | --- |
| Configuration | TL1-CLI\_RSSI measurement\_period (ms) |
| No DRX | Max(TReport, (M+L1) X TCLI-RSSI) |
| DRX cycle ≤ 320ms | Max(TReport, Ceil(1.5 X (M+L1)) X max(TCLI-RSSI, TDRX)) |
| DRX cycle > 320ms | (M+L1) X TDRX |
| NOTE 1: TCLI-RSSI is L1-CLI-RSSI measurement periodicity configured *RSSI-PeriodicityAndOffset*, and TDRX is the DRX cycle length. TReport is configured periodicity for reporting.  NOTE 2: M=1 if higher layer parameter *timeRestrictionForChannelMeasurement* is configured, and M=3 otherwise. | |

If the configured L1-CLI-RSSI measurement resources are partially or fully overlapping with SMTC window, SSB or CSI-RS configured for RLM, BFD, CBD or L1-RSRP measurement or measurement gaps, requirements are not specified for TL1-CLI\_RSSI\_measurement\_period.

**----------------------END OF CHANGE----------------------------**