**3GPP TSG-RAN WG2 Meeting #131 *R2-250xxxx***

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

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **38.331** | **CR** | **Draft** | **rev** |  | **Current version:** | **18.6.0** |  |
|  |
| *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 | **X** | Core Network |  |

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|  |
| ***Title:***  | Introduction of SONMDT UE Capabilities  |
|  |  |
| ***Source to WG:*** | CATT |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | NR\_ENDC\_SON\_MDT\_Ph4-Core |  | ***Date:*** | 2025-08-15 |
|  |  |  |  |  |
| ***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)* |
|  |  |
| ***Reason for change:*** | Introduction of UE capabilities for R19 SON/MDT features |
|  |  |
| ***Summary of change:*** | UE capability signallings are introduced for: 1. RLF-report for MCG LTM
2. RLF-report for CHO with candidate SCG
3. geographic area scope checking for logged MDT
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|  |  |
| ***Consequences if not approved:*** | UE capabilites for R19 SON/MDT features are not suported in TS 38.331. |
|  |  |
| ***Clauses affected:*** | 6.3.3 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** | **X** |  |  Other core specifications  | TS 38.306 CR xxxx  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

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| CHANGE START |

### 6.3.3 UE capability information elements

**<Unnecessary part omitted>**

#### – *SON-Parameters*

The IE *SON-Parameters* contains SON related parameters.

*SON-Parameters* information element

-- ASN1START

-- TAG-SON-PARAMETERS-START

SON-Parameters-r16 ::= SEQUENCE {

 rach-Report-r16 ENUMERATED {supported} OPTIONAL,

 ...,

 [[

 rlfReportCHO-r17 ENUMERATED {supported} OPTIONAL,

 rlfReportDAPS-r17 ENUMERATED {supported} OPTIONAL,

 success-HO-Report-r17 ENUMERATED {supported} OPTIONAL,

 twoStepRACH-Report-r17 ENUMERATED {supported} OPTIONAL,

 pscell-MHI-Report-r17 ENUMERATED {supported} OPTIONAL,

 onDemandSI-Report-r17 ENUMERATED {supported} OPTIONAL

 ]],

 [[

 cef-ReportRedCap-r17 ENUMERATED {supported} OPTIONAL,

 rlf-ReportRedCap-r17 ENUMERATED {supported} OPTIONAL

 ]],

 [[

 spr-Report-r18 ENUMERATED {supported} OPTIONAL,

 successIRAT-HO-Report-r18 ENUMERATED {supported} OPTIONAL

 ]],

 [[

 rlfReport-LTM-r19 ENUMERATED {supported} OPTIONAL,

rlfReportCondHandoverWithCandSCG-Change-r19 ENUMERATED {supported} OPTIONAL

 ]]

}

-- TAG-SON-PARAMETERS-STOP

-- ASN1STOP

**<Unnecessary part omitted>**

#### – *UE-BasedPerfMeas-Parameters*

The IE *UE-BasedPerfMeas-Parameters* contains UE-based performance measurement parameters.

*UE-BasedPerfMeas-Parameters* information element

-- ASN1START

-- TAG-UE-BASEDPERFMEAS-PARAMETERS-START

UE-BasedPerfMeas-Parameters-r16 ::= SEQUENCE {

 barometerMeasReport-r16 ENUMERATED {supported} OPTIONAL,

 immMeasBT-r16 ENUMERATED {supported} OPTIONAL,

 immMeasWLAN-r16 ENUMERATED {supported} OPTIONAL,

 loggedMeasBT-r16 ENUMERATED {supported} OPTIONAL,

 loggedMeasurements-r16 ENUMERATED {supported} OPTIONAL,

 loggedMeasWLAN-r16 ENUMERATED {supported} OPTIONAL,

 orientationMeasReport-r16 ENUMERATED {supported} OPTIONAL,

 speedMeasReport-r16 ENUMERATED {supported} OPTIONAL,

 gnss-Location-r16 ENUMERATED {supported} OPTIONAL,

 ulPDCP-Delay-r16 ENUMERATED {supported} OPTIONAL,

 ...,

 [[

 sigBasedLogMDT-OverrideProtect-r17 ENUMERATED {supported} OPTIONAL,

 multipleCEF-Report-r17 ENUMERATED {supported} OPTIONAL,

 excessPacketDelay-r17 ENUMERATED {supported} OPTIONAL,

 earlyMeasLog-r17 ENUMERATED {supported} OPTIONAL

 ]],

 [[

 loggedMDT-PNI-NPN-r18 ENUMERATED {supported} OPTIONAL,

 loggedMDT-SNPN-r18 ENUMERATED {supported} OPTIONAL

 ]],

 [[

 geoAreaScopeChecking-r19 ENUMERATED {supported} OPTIONAL

 ]]

}

-- TAG-UE-BASEDPERFMEAS-PARAMETERS-STOP

-- ASN1STOP

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| CHANGE END |