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

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network | **X** | Core Network |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***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 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:*** | | 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 4. SHR for MCG LTM | | | | | | | | |
|  | |  | | | | | | | | |
| ***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:*** | |  | | | | | | | | |

|  |
| --- |
| 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,

success-HO-Report-LTM-r19 ENUMERATED {supported} OPTIONAL

]]

}

-- TAG-SON-PARAMETERS-STOP

-- ASN1STOP

*Editor’s note: whether the UE capability signalling for LTM SHR (i.e., success-HO-Report-LTM-r19) is defined depends on further discussion.*

**<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

|  |
| --- |
| CHANGE END |