**3GPP TSG-RAN WG2 Meeting #124 *R2-231xxxx***

**Chicago, USA, 13-17 November 2023**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.331** | **CR** |  | **rev** |  | **Current version:** | **17.6.0** |  |
|  | | | | | | | | |
| *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:*** | Running CR 38331 for UE capability for R18 SONMDT | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | CATT, Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | R2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_ENDC\_SON\_MDT\_enh2-Core | | | | |  | ***Date:*** | | | 2023-10-16 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Introduction of R18 features on SON and MDT. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Based on the R2#123bis agreements, R18 UE capabilities for SON and MDT are defined as below:  3: Introduce a new UE capaiblity bit (optional with signalling) for SPR. This bit indicates whether the UE supports the storage and delivery of Successful PScell Change/Addition Report upon request from the network.  4: Introduce A new UE capability bit (optional with signalling) for SHR for a handover from NR to E-UTRA. This bit indicates whether the UE supports the storage and delivery of Successful Handover Report for Handover from NR to E-UTRA, upon request from the network.  5: Introduce A new UE capability bit (optional with signalling) for NPN in logged MDT. This bit indicates whether the UE supports the inclusion of NPN ID in logged MDT procedures, upon request from the network. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | No R18 UE capabilities for SON and MDT are defined. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 6.3.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | TS38.306 CR TBD | | |
| ***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

### 6.3.3 UE capability information elements

*[Omitted part]*

– *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

]],

[[

spr-Report-r18 ENUMERATED {supported} OPTIONAL,

success-InterRAT-HO-Report-r18 ENUMERATED {supported} OPTIONAL

]]

}

-- TAG-SON-PARAMETERS-STOP

-- ASN1STOP

*NEXT CHANGE*

– *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-NPN-r18 ENUMERATED {supported} OPTIONAL

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}

-- TAG-UE-BASEDPERFMEAS-PARAMETERS-STOP

-- ASN1STOP

END OF CHANGE