**3GPP TSG-RAN WG3 Meeting #119R3-230568**

**Athens, GR, 27 Feb – 03 Mar, 2023**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.423** | **CR** | **0991** | **rev** | 1 | **Current version:** | **17.3.0** |  |
|  | | | | | | | | |
| *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 |  | Radio Access Network | **x** | Core Network |  |

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| ***Title:*** | Correction on MDT area scope | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, Deutsche Telekom, CMCC | | | | | | | | | |
| ***Source to TSG:*** | R3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_SON\_MDT-Core | | | | |  | ***Date:*** | | | 2023-02-01 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | A |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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:*** | | One issue is detected in the area scope configuration in both MDT Configuration-NR and MDT Configuration-EUTRA:  In the *TAI based* branch of the tabular, the *TAI* IE referring to 9.2.3.20 *TAI Support List* which leads to double lists of TAI. While, the ASN.1 is implemented corretly.  TAIBasedMDT ::= SEQUENCE {  tAIListforMDT TAIListforMDT,  iE-Extensions ProtocolExtensionContainer { {TAIBasedMDT-ExtIEs} } OPTIONAL,  ...  }  TAIBasedMDT-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {  ...  }  TAIListforMDT ::= SEQUENCE (SIZE(1..maxnoofTAforMDT)) OF TAIforMDT-Item  TAIforMDT-Item ::= SEQUENCE {  plmn-ID PLMN-Identity,  tAC TAC,  iE-Extensions ProtocolExtensionContainer { {TAIforMDT-Item-ExtIEs} } OPTIONAL,  ...  } | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Correct in tabular, the defintion for TAI in area acope in *MDT configuration-NR* IE and *MDT configuration EUTRA* IE.  Impact analysis:  Impact assessment towards the previous version of the specification (same release):  This CR has a limited impact on the protocol.  This CR has functionality impact.  This CR can be considered isolated. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The TAI lists for MDT in MDT Configuration-NR and MDT Configuration-EUTRA are incorrect in tabular. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 9.2.3.126, 9.2.3.127 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | V1, correct the reference in tabular. | | | | | | | | |

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#### 9.2.3.126 MDT Configuration-NR

The IE defines the MDT configuration parameters of NR.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| MDT Activation | M |  | ENUMERATED  (Immediate MDT only, Logged MDT only, Immediate MDT and Trace,…) |  |
| CHOICE *Area Scope of MDT-NR* | O |  |  |  |
| >*Cell based* |  |  |  |  |
| >>**Cell ID List for MDT-NR** |  | *1 .. <maxnoofCellIDforMDT>* |  |  |
| >>>NR CGI | M |  | 9.2.2.7 |  |
| >*TA based* |  |  |  |  |
| >>**TA List for MDT** |  | *1 .. <maxnoofTAforMDT>* |  |  |
| >>>TAC | M |  | OCTET STRING (SIZE (3)) | The TAI is derived using the current serving PLMN. |
| >*TAI based* |  |  |  |  |
| >>**TAI List for MDT** |  |  |  |  |
| >>>TAI **List for MDT Item** |  | *1 .. <maxnoofTAforMDT>* |  |  |
| >>>>PLMN Identity | M |  | 9.2.2.4 |  |
| >>>>TAC | M |  | 9.2.2.5 |  |
| CHOICE *MDT Mode* | M |  |  |  |
| >*Immediate MDT-NR* |  |  |  |  |
| >>Measurements to Activate | M |  | BITSTRING  (SIZE(8)) | Each position in the bitmap indicates a MDT measurement, as defined in TS 37.320 [43].  First Bit = M1,  Second Bit= M2,  Fourth Bit = M4,  Fifth Bit = M5,  Sixth Bit = logging of M1 from event triggered measurement reports according to existing RRM configuration,  Seventh Bit = M6,  Eighth Bit = M7.  Value "1" indicates "activate" and value "0" indicates "do not activate".  This version of the specification does not use bits 3. |
| >>M1 Configuration | C-ifM1 |  | 9.2.3.128 |  |
| >>M4 Configuration | C-ifM4 |  | 9.2.3.129 |  |
| >>M5 Configuration | C-ifM5 |  | 9.2.3.130 |  |
| >>MDT Location Information | O |  | BITSTRING(SIZE(8)) | Each position in the bitmap represents requested location information as defined in TS 37.320 [43].  First Bit = GNSS  Other bits are reserved for future use and are ignored if received.  Value "1" indicates "activate" and value "0" indicates "do not activate".  The eNB shall ignore the first bit unless the *Measurements to Activate* IE has the first bit or the sixth bit set to "1". |
| >>M6 Configuration | C-ifM6 |  | 9.2.3.131 |  |
| >>M7 Configuration | C-ifM7 |  | 9.2.3.132 |  |
| >>Bluetooth Measurement Configuration | O |  | 9.2.3.11 |  |
| >>WLAN Measurement Configuration | O |  | 9.2.3.12 |  |
| >>Sensor Measurement Configuration | O |  | 9.2.3.136 |  |
| >*Logged MDT-NR* |  |  |  |  |
| >>Logging interval | M |  | ENUMERATED (ms320, ms640, ms1280, ms2560, ms5120, ms10240, ms20480, ms30720, ms40960 and ms61440, infinity) | This IE is defined in TS 38.331 [10]. The value "infinity" represents one shot logging, i.e., only one log per event in the logged MDT report. |
| >>Logging duration | M |  | ENUMERATED (10, 20, 40, 60, 90, 120) | This IE is defined in TS 38.331 [10]. Unit: [minute]. |
| >>CHOICE *Report Type* | M |  |  |  |
| >>>*Periodical* |  |  |  |  |
| >>>*Event Triggered* |  |  |  |  |
| >>>>Logged Event Trigger Config | M |  | 9.2.3.137 |  |
| >>Bluetooth Measurement Configuration | O |  | 9.2.3.134 |  |
| >>WLAN Measurement Configuration | O |  | 9.2.3.135 |  |
| >>Sensor Measurement Configuration | O |  | 9.2.3.136 |  |
| >>Area Scope of Neighbour Cells | O |  | 9.2.3.140 |  |
| >>Early Measurement | O |  | ENUMERATED  (true, ...) | This IE indicates whether the UE is allowed to log measurements on early measurement related frequencies in logged MDT as specified in TS 38.331 [10]. |
| Signalling based MDT PLMN List | O |  | MDT PLMN List  9.2.3.133 |  |

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#### 9.2.3.127 MDT Configuration-EUTRA

The IE defines the MDT configuration parameters of EUTRA.

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| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| MDT Activation | M |  | ENUMERATED(Immediate MDT only, Logged MDT only, Immediate MDT and Trace,…) |  |
| CHOICE *Area Scope of MDT-E-UTRA* | O |  |  |  |
| >*Cell based* |  |  |  |  |
| >>**Cell ID List for MDT** |  | *1 .. <maxnoofCellIDforMDT>* |  |  |
| >>>NR CGI | M |  | 9.2.2.7 |  |
| >*TA based* |  |  |  |  |
| >>**TA List for MDT** |  | *1 .. <maxnoofTAforMDT>* |  |  |
| >>>TAC | M |  | OCTET STRING (SIZE (3)) | The TAI is derived using the current serving PLMN. |
| >*TAI based* |  |  |  |  |
| >>**TAI List for MDT** |  |  |  |  |
| >>>TAI **List for MDT Item** |  | *1 .. <maxnoofTAforMDT>* |  |  |
| >>>>PLMN Identity | M |  | 9.2.2.4 |  |
| >>>>TAC | M |  | 9.2.2.5 |  |
| MDT Mode E-UTRA | M |  | OCTET STRING | *MDTMode* IE defined in TS 36.413 [31]. |
| Signalling based MDT PLMN List | O |  | MDT PLMN List  9.2.3.133 |  |

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*End of Change\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/