**3GPP TSG-RAN WG3 Meeting #123 *R3-240995***

**Athens, Greece, 26 February – 01 March 2024 was R3-240367**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **38.423** | **CR** | **1163** | **rev** | **1** | **Current version:** | **18.0.0** |  |
|  | | | | | | | | |
| *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 |  | Radio Access Network | **x** | Core Network |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | ASN.1 corrections for MDT enhancements to support NPN | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell, Ericsson | | | | | | | | | |
| ***Source to TSG:*** | R3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_ENDC\_SON\_MDT\_enh2-Core | | | | |  | ***Date:*** | | | 2024-02-26 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | F |  | | | | | ***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:*** | | The ASN.1 structure for the *Area Scope of MDT-NR* IE is inconsistent.  XnAP ASN.1 should be aligned on NGAP (see TS 38.413 CR#1086)  Unclear procedural text. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | 1. Clarification of procedural text. 2. ASN.1: Within the *MDT Configuration-NR* IE, the *Area Scope of MDT-NR* IE was extended by CR1050 with 4 additional choices. But while legacy choices are encoded as a SEQUENCE, some of the new choices are encoded directly as a list. Therefore, the ASN.1 is modified so that all choices are encoded as an extensible SEQUENCE like the legacy choice options. 3. ASN.1: Similarly, the ASN.1 for the *PNI-NPN Area Scope of MDT* IE is modified so that it is encoded as an extensible SEQUENCE. 4. 9.2.3.191: The *PNI NPN Area Scope of MDT* IE is renamed to *CAG List for MDT* to reflect its actual content and make it more suitable for reuse. 5. 9.2.3.126: The SNPN TAI List IE and MDT SNPN List IE are renamed to align with the ASN.1. SNPN-ID Based MDT is renamed to SNPN Based MDT (for alignment with NGAP). | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | ASN.1 structure for the *Area Scope of MDT* IE remains incorrect, and not aligned on NGAP. Unclear specification. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 8.2.1.4, 8.2.4.4, 8.3.14.3, 9.2.3.126, 9.2.3.191, 9.3.5, 9.3.7 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | r1: removing the semantics description added to the *PNI-NPN Area Scope of MDT* IE in 9.2.3.126  r0: submission to RAN3#123 | | | | | | | | |

*start of changes*

#### 8.2.1.4 Abnormal Conditions

If the supported algorithms for encryption defined in the *UE Security Capabilities* IE in the *UE Context Information* IE, plus the mandated support of the EEA0 and NEA0 algorithms in all UEs (TS 33.501 [28]), do not match any allowed algorithms defined in the configured list of allowed encryption algorithms in the NG-RAN node (TS 33.501 [28]), the NG-RAN node shall reject the procedure using the HANDOVER PREPARATION FAILURE message.

If the supported algorithms for integrity defined in the *UE Security Capabilities* IE in the *UE Context Information* IE, plus the mandated support of the EIA0 and NIA0 algorithms in all UEs (TS 33.501 [28]), do not match any allowed algorithms defined in the configured list of allowed integrity protection algorithms in the NG-RAN node (TS 33.501 [28]), the NG-RAN node shall reject the procedure using the HANDOVER PREPARATION FAILURE message.

If the *CHO trigger* IE is set to "CHO-replace" in the HANDOVER REQUEST message, but there is no CHO prepared for the included Target NG-RAN node UE XnAP ID, or the candidate cell in the *Targe*t *Cell ID* IE was not prepared using the same UE-associated signaling connection, the NG-RAN node shall reject the procedure using the HANDOVER PREPARATION FAILURE message.

If the HANDOVER REQUEST message includes information for a PLMN not serving the UE in the target NG-RAN node in the *Management Based MDT PLMN List* IE, the target NG-RAN node shall ignore information for that PLMN within the Management Based MDT PLMN List.

If both the *PNI-NPN Area Scope of MDT* IE and the *Area Scope of MDT-NR* IE are included in the *MDT Configuration-NR* IE in the HANDOVER REQUEST message, and the *Area Scope of MDT-NR* IE is set to "PNI-NPN based", the target NG-RAN node shall, if supported, use the *Area Scope of MDT-NR* IE to derive the MDT area scope for MDT measurement collections in PNI-NPN areas, and ignore the *PNI-NPN Area Scope of MDT* IE.

If the *PNI-NPN Area Scope of MDT* IE is included in the *MDT Configuration-NR* IE in the HANDOVER REQUEST message, and the *Area Scope of MDT-NR* IE is not included, the target NG-RAN node shall ignore the *PNI-NPN Area Scope of MDT* IE, and consider that the MDT Configuration for NR is applied to all PLMNs indicated in the MDT PLMN List described in TS 32.422 [23].

*next change*

#### 8.2.4.4 Abnormal Conditions

If both the *PNI-NPN Area Scope of MDT* IE and the *Area Scope of MDT-NR* IE are included in the *MDT Configuration-NR* IE in the RETRIEVE UE CONTEXT RESPONSE message, and the *Area Scope of MDT-NR* IE is set to "PNI-NPN based", the new NG-RAN node shall, if supported, use the *Area Scope of MDT-NR* IE to derive the MDT area scope for MDT measurement collection in PNI-NPN areas, and ignore the *PNI-NPN Area Scope of MDT* IE.

If the *PNI-NPN Area Scope of MDT* IE is included in the *MDT Configuration-NR* IE in the RETRIEVE UE CONTEXT RESPONSE message, and the *Area Scope of MDT-NR* IE is not included, the target NG-RAN node shall ignore the *PNI-NPN Area Scope of MDT* IE, and consider that the MDT Configuration for NR is applied to all PLMNs indicated in the MDT PLMN List described in TS 32.422 [23].

*next change*

#### 8.3.14.3 Abnormal Conditions

If the *Trace Activation* IE is not included in the TRACE START message, the S-NG-RAN node shall ignore the message.

If both the *PNI-NPN Area Scope of MDT* IE and the *Area Scope of MDT-NR* IE are included in the *MDT Configuration-NR* IE in the TRACE START message, and the *Area Scope of MDT-NR* IE is set to "PNI-NPN based", the S-NG-RAN node shall, if supported, use the *Area Scope of MDT-NR* IE to derive the MDT area scope for MDT measurement collection in PNI-NPN areas, and ignore the *PNI-NPN Area Scope of MDT* IE.

If the *PNI-NPN Area Scope of MDT* IE is included in the *MDT Configuration-NR* IE in the TRACE START message, and the *Area Scope of MDT-NR* IE is not included, the target NG-RAN node shall ignore the *PNI-NPN Area Scope of MDT* IE, and consider that the MDT Configuration for NR is applied to all PLMNs indicated in the MDT PLMN List described in TS 32.422 [23].

*next change*

#### 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 | Criticality | Assigned Criticality |
| --- | --- | --- | --- | --- | --- | --- |
| MDT Activation | M |  | ENUMERATED  (Immediate MDT only, Immediate MDT and Trace, Logged MDT only, ...) |  | – |  |
| CHOICE *Area Scope of MDT-NR* | O |  |  |  | – |  |
| >*Cell based* |  |  |  | If *PNI-NPN Area Scope of MDT* IE is present, this IE covers non-CAG cells only, where non-CAG cells refer to cells that only provide public access. |  |  |
| >>**Cell ID List for MDT-NR** |  | *1 .. <maxnoofCellIDforMDT>* |  |  | – |  |
| >>>NR CGI | M |  | 9.2.2.7 |  | – |  |
| >*TA based* |  |  |  | If *PNI-NPN Area Scope of MDT* IE is present, this IE covers non-CAG cells only, where non-CAG cells refer to cells that only provide public access. |  |  |
| >>**TA List for MDT** |  | *1 .. <maxnoofTAforMDT>* |  |  | – |  |
| >>>TAC | M |  | OCTET STRING (SIZE (3)) | The TAI is derived using the current serving PLMN. | – |  |
| >*TAI based* |  |  |  | If *PNI-NPN Area Scope of MDT* IE is present, it covers non-CAG cells only, where non-CAG cells refer to cells that only provide public access. |  |  |
| >>**TAI List for MDT** |  | *1* |  |  | – |  |
| >>>**TAI List for MDT Item** |  | *1 .. <maxnoofTAforMDT>* |  |  | – |  |
| >>>>PLMN Identity | M |  | 9.2.2.4 |  | – |  |
| >>>>TAC | M |  | 9.2.2.5 |  | – |  |
| *>PNI-NPN Based MDT* |  |  |  |  | YES | ignore |
| >>CAG List for MDT |  |  | 9.2.3.191 |  | – |  |
| *>SNPN Cell Based MDT* |  |  |  |  | YES | ignore |
| >>**SNPN *Cell ID List for MDT*** |  | *1..<maxnoofCellIDforMDT>* |  |  | – |  |
| >>>NR CGI | M |  | 9.2.2.7 |  | – | - |
| >>>NID | M |  | 9.2.2.65 | Identifies an SNPN together with the PLMN Identity in the *NR CGI* IE. | – | - |
| *>SNPN TAI Based MDT* |  |  |  |  | YES | ignore |
| **>>SNPN TAI List for MDT** |  | *1..<maxnoofTAforMDT>* |  |  | – | - |
| >>>PLMN Identity | M |  | 9.2.2.4 |  | – | - |
| >>>TAC | M |  | 9.2.2.5 |  | – | - |
| >>>NID | M |  | 9.2.2.65 | Identifies an SNPN together with the *PLMN Identity* IE. | – | - |
| *>SNPN Based MDT* |  |  |  |  | YES | ignore |
| **>>SNPNList for MDT** |  | *1..<maxnoofMDTSNPNs>* |  |  | – | - |
| >>>PLMN Identity | M |  | 9.2.2.4 |  | – | - |
| >>>NID | M |  | 9.2.2.65 | Identifies an SNPN together with the *PLMN Identity* IE. | – | - |
| 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 , ms61440, infinity, ...) | Corresponds to information provided in the *LoggingInterval* IE as 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) | Corresponds to information provided in the *LoggingDuration* IE as 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 |  | – |  |
| **PNI-NPN Area Scope of MDT** |  | *0..1* |  |  | YES | Ignore |
| >CAG List for MDT | M |  | 9.2.3.191 |  | – |  |

| Range bound | Explanation |
| --- | --- |
| maxnoofCellIDforMDT | Maximum no. of Cell ID subject for MDT scope. Value is 32. |
| maxnoofTAforMDT | Maximum no. of TA subject for MDT scope. Value is 8. |
| maxnoofMDTSNPNs | Maximum no. of SNPNs in the MDT SNPN list. Value is 16. |

| Condition | Explanation |
| --- | --- |
| ifM1 | This IE shall be present if the *Measurements to Activate* IE has the first bit set to "1". |
| ifM4 | This IE shall be present if the *Measurements to Activate* IE has the fourth bit set to "1". |
| ifM5 | This IE shall be present if the *Measurements to Activate* IE has the fifth bit set to "1". |
| ifM6 | This IE shall be present if the *Measurements to Activate* IE has the seventh bit set to "1". |
| ifM7 | This IE shall be present if the *Measurements to Activate* IE has the eighth bit set to "1". |

*next change*

#### 9.2.3.191 CAG List for MDT

This IE is used to identify the list of Public Network Integrated NPNs for MDT.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description |
| **CAG List for MDT** |  | *1..< maxnoofCAGforMDT >* |  |  |
| >PLMN Identity | M |  | 9.2.2.4 |  |
| >CAG-Identifier | M |  | 9.2.2.66 |  |

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofCAGforMDT | Maximum no. of CAG IDs for MDT area scope. Value is 256. |

*next change*

### 9.3.5 Information Element definitions

-- ASN1START

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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-- Information Element Definitions

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-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\* unmodified text skipped \*\*

id-PNI-NPNBasedMDT,

id-PNI-NPN-AreaScopeofMDT,

id-SNPN-CellBasedMDT,

id-SNPN-TAIBasedMDT,

id-SNPN-BasedMDT,

id-S-CPAC-Request,

id-S-CPAC-Request-Info,

id-S-CPAC-ReferenceConfigRequest,

\*\* unmodified text skipped \*\*

AreaScopeOfMDT-NR ::= CHOICE {

cellBased CellBasedMDT-NR,

tABased TABasedMDT,

tAIBased TAIBasedMDT,

...,

choice-extension ProtocolIE-Single-Container { {AreaScopeOfMDT-NR-ExtIEs} }

}

AreaScopeOfMDT-NR-ExtIEs XNAP-PROTOCOL-IES ::= {

{ ID id-PNI-NPNBasedMDT CRITICALITY ignore TYPE PNI-NPNBasedMDT PRESENCE mandatory}|

{ ID id-SNPN-CellBasedMDT CRITICALITY ignore TYPE SNPN-CellBasedMDT PRESENCE mandatory}|

{ ID id-SNPN-TAIBasedMDT CRITICALITY ignore TYPE SNPN-TAIBasedMDT PRESENCE mandatory}|

{ ID id-SNPN-BasedMDT CRITICALITY ignore TYPE SNPN-BasedMDT PRESENCE mandatory},

...

}

\*\* unmodified text skipped \*\*

CAGListforMDT ::= SEQUENCE {

plmnID PLMN-Identity,

cAGID CAG-Identifier,

iE-Extensions ProtocolExtensionContainer { {CAGListforMDT-ExtIEs} } OPTIONAL,

...

}

CAGListforMDT-ExtIEs XNAP-PROTOCOL-EXTENSION ::={

...

}

\*\* unmodified text skipped \*\*

CellBasedMDT-NR::= SEQUENCE {

cellIdListforMDT-NR CellIdListforMDT-NR,

iE-Extensions ProtocolExtensionContainer { {CellBasedMDT-NR-ExtIEs} } OPTIONAL,

...

}

CellBasedMDT-NR-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

CellIdListforMDT-NR ::= SEQUENCE (SIZE(1..maxnoofCellIDforMDT)) OF NR-CGI

\*\* unmodified text skipped \*\*

PNI-NPN-AreaScopeofMDT ::= SEQUENCE {

cAGListforMDT CAGListforMDT,

iE-Extensions ProtocolExtensionContainer { {PNI-NPN-AreaScopeofMDT-ExtIEs} } OPTIONAL,

...

}

PNI-NPN-AreaScopeofMDT-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

PNI-NPNBasedMDT::= SEQUENCE {

cAGListforMDT CAGListforMDT,

iE-Extensions ProtocolExtensionContainer { {PNI-NPNBasedMDT-ExtIEs} } OPTIONAL,

...

}

PNI-NPNBasedMDT-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

\*\* unmodified text skipped \*\*

SNPN-CellBasedMDT::= SEQUENCE {

sNPN-CellIdListforMDT SNPN-CellIdListforMDT,

iE-Extensions ProtocolExtensionContainer { {SNPN-CellBasedMDT-ExtIEs} } OPTIONAL,

...

}

SNPN-CellBasedMDT-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SNPN-CellIdListforMDT ::= SEQUENCE (SIZE(1..maxnoofCellIDforMDT)) OF SNPN-CellIdforMDT-Item

SNPN-CellIdforMDT-Item ::= SEQUENCE {

nRCGI NR-CGI,

nID NID,

iE-Extensions ProtocolExtensionContainer { {SNPN-CellIdforMDT-Item-ExtIEs} } OPTIONAL,

...

}

SNPN-CellIdforMDT-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SNPN-TAIBasedMDT ::= SEQUENCE {

sNPN-TAIListforMDT SNPN-TAIListforMDT,

iE-Extensions ProtocolExtensionContainer { {SNPN-TAIBasedMDT-ExtIEs} } OPTIONAL,

...

}

SNPN-TAIBasedMDT-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SNPN-TAIListforMDT ::= SEQUENCE (SIZE(1..maxnoofTAforMDT)) OF SNPN-TAIforMDT-Item

SNPN-TAIforMDT-Item ::= SEQUENCE {

plmn-ID PLMN-Identity,

tAC TAC,

nID NID,

iE-Extensions ProtocolExtensionContainer { {SNPN-TAIforMDT-Item-ExtIEs} } OPTIONAL,

...

}

SNPN-TAIforMDT-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SNPN-BasedMDT::= SEQUENCE {

sNPNListforMDT SNPNListforMDT,

iE-Extensions ProtocolExtensionContainer { {SNPN-BasedMDT-ExtIEs} } OPTIONAL,

...

}

SNPN-BasedMDT-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

SNPNListforMDT ::= SEQUENCE (SIZE(1.. maxnoofMDTSNPNs)) OF SNPNforMDT-Item

SNPNforMDT-Item ::= SEQUENCE {

plmn-ID PLMN-Identity,

nID NID,

iE-Extensions ProtocolExtensionContainer {{SNPNforMDT-Item-ExtIEs}} OPTIONAL,

...

}

SNPNforMDT-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

\*\* unmodified text skipped \*\*

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,

...

}

TAIforMDT-Item-ExtIEs XNAP-PROTOCOL-EXTENSION ::= {

...

}

\*\* unmodified text skipped \*\*

### 9.3.7 Constant definitions

\*\* unmodified text skipped \*\*

id-PNI-NPN-AreaScopeofMDT ProtocolIE-ID ::= 420

id-PNI-NPNBasedMDT ProtocolIE-ID ::= 421

id-SNPN-CellBasedMDT ProtocolIE-ID ::= 422

id-SNPN-TAIBasedMDT ProtocolIE-ID ::= 423

id-SNPN-BasedMDT ProtocolIE-ID ::= 424

id-S-CPAC-Request ProtocolIE-ID ::= 425

id-S-CPAC-Request-Info ProtocolIE-ID ::= 426

id-S-CPAC-ReferenceConfigRequest ProtocolIE-ID ::= 427

id-S-CPAC-InterSN-ExecutionNotify ProtocolIE-ID ::= 428

id-S-CPAC-dataforwardinginfofromSource ProtocolIE-ID ::= 429

id-CPACcandidatePSCells-wotherInfo-list ProtocolIE-ID ::= 430

id-eRedcap-Bcast-Information ProtocolIE-ID ::= 431

id-NRPagingLongeDRXInformationforRRCINACTIVE ProtocolIE-ID ::= 432

id-MBS-AssistanceInformation ProtocolIE-ID ::= 433

id-QMCCoordinationRequest ProtocolIE-ID ::= 434

id-QMCCoordinationResponse ProtocolIE-ID ::= 435

id-QoE-Measurement-Results ProtocolIE-ID ::= 436

id-MBSCommServiceType ProtocolIE-ID ::= 437

id-AssistanceInformationQoE-Meas ProtocolIE-ID ::= 438

id-SNRelatedQMCInfoAtMN ProtocolIE-ID ::= 439

id-QoERVQoEReportingPaths ProtocolIE-ID ::= 440

id-Src-SN-to-Tgt-SNQMCInfoInquiry ProtocolIE-ID ::= 441

id-DirectForwardingPathAvailabilityWithSourceMN ProtocolIE-ID ::= 442

id-CHO-Maxnoof-CondReconfig ProtocolIE-ID ::= 443

id-accessed-PSCellID ProtocolIE-ID ::= 444

id-conditional-Reconfig-ToCancel-List ProtocolIE-ID ::= 445

id-CHOinformation-AddReqAck ProtocolIE-ID ::= 446

id-CHO-CPAC-Info ProtocolIE-ID ::= 447

id-PDUSetQoSParameters ProtocolIE-ID ::= 448

id-N6JitterInformation ProtocolIE-ID ::= 449

id-ECNMarkingorCongestionInformationReportingRequest ProtocolIE-ID ::= 450

id-PDUSetbasedHandlingIndicator ProtocolIE-ID ::= 451

id-TAISliceUnavailableCellList ProtocolIE-ID ::= 452

id-MobileIAB-AuthorizationStatus ProtocolIE-ID ::= 453

id-MIAB-MT-BAP-Address ProtocolIE-ID ::= 454

id-MobileIABCell ProtocolIE-ID ::= 455

END

-- ASN1STOP

*end of changes*