**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)*.* |
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|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***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 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-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 9.2.3.126r0: 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 = GNSSOther 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 List9.2.3.133 |  | – |  |
| **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*