3GPP TSG-RAN WG3 Meeting #125-bis R3-245231

**Hefei , CN, 14 - 18 Oct, 2024**

Title: (TP for BLCR for MDT for 38.413) SON and MDT for Network Slicing

Agenda Item: 10.3.2

Source: Huawei

Document for: other

# Introduction

This is a TP for 38.413

# Annex – TP to 38.413

### 8.3.1 Initial Context Setup

[snip].

#### 8.3.1.2 Successful Operation

[snip]

If the *PNI-NPN Area Scope of MDT* IE is included in the *MDT Configuration-NR* IE included in the INITIAL CONTEXT SETUP REQUEST message, the NG-RAN node shall, if supported, use it to derive the MDT area scope for MDT measurement collection in PNI-NPN areas. Upon reception of the *PNI-NPN Area Scope of MDT* IE, the NG-RAN node shall consider that the area scope for MDT measurement collection in PNI-NPN areas is defined only by the areas included in the *PNI-NPN Area Scope of MDT* IE.

If the *Network Slice Area Scope of MDT* IE is included in the *MDT Configuration-NR* IE included in the INITIAL CONTEXT SETUP REQUEST message, the NG-RAN node shall, if supported, use it to derive the MDT area scope for MDT measurement collection. Upon reception of the *Network Slice Area Scope of MDT* IE, the NG-RAN node shall consider that the area scope for MDT measurement collection is defined only by the the *Network Slice Area Scope of MDT* IE and the *Area Scope of MDT* IE.

[snip]

#### 8.3.1.4 Abnormal Conditions

If the supported algorithms for encryption defined in the *Encryption Algorithms* IE in the *UE Security Capabilities* IE, plus the mandated support of EEA0 and NEA0 in all UEs (TS 33.501 [13]), do not match any allowed algorithms defined in the configured list of allowed encryption algorithms in the NG-RAN node (TS 33.501 [13]), the NG-RAN node shall reject the procedure using the INITIAL CONTEXT SETUP FAILURE message.

If the *Partially Allowed NSSAI* IE is received in the INITIAL CONTEXT SETUP REQUEST message and the total number of S-NSSAIs included in the Allowed NSSAI and Partially Allowed NSSAI exceeds eight, the NG-RAN node shall consider the procedure as failed.

If any of the S-NSSAI which is present in the *Partially Allowed NSSAI* IE is also present in the *Allowed NSSAI* IE, the NG-RAN node shall consider the procedure as failed.

If the supported algorithms for integrity defined in the *Integrity Protection Algorithms* IE in the *UE Security Capabilities* IE, plus the mandated support of the EIA0 and NIA0 algorithm in all UEs (TS 33.501 [13]), do not match any allowed algorithms defined in the configured list of allowed integrity protection algorithms in the NG-RAN node (TS 33.501 [13]), the NG-RAN node shall reject the procedure using the INITIAL CONTEXT SETUP FAILURE message.

If the *PNI-NPN Area Scope of MDT* IE is included in the *MDT Configuration-NR* IE in the INITIAL CONTEXT SETUP REQUEST message, and the *Area Scope of MDT* IE is set to "PNI-NPN Based MDT", the NG-RAN node shall, if supported, use the *Area Scope of MDT* IE to derive the MDT area scope for MDT measurement collection in PNI-NPN areas, and ignore the *PNI-NPN Area Scope of MDT*.

If the *Network Slice Area Scope of MDT* IE is included in the *MDT Configuration-NR* IE in the INITIAL CONTEXT SETUP REQUEST message, and the *MDT Activation* IE is set to “Logged MDT only”, the NG-RAN node shall ignore the *Network Slice Area Scope of MDT* IE.

[snip]

### 8.4.2 Handover Resource Allocation

[snip]

#### 8.4.2.2 Successful Operation

[snip]

If the *PNI-NPN Area Scope of MDT* IE is included in the *MDT Configuration-NR* IE included in the HANDOVER REQUEST message, the NG-RAN node shall, if supported, use it to derive the MDT area scope for MDT measurement collection in PNI-NPN areas. Upon reception of the *PNI-NPN Area Scope of MDT* IE, the NG-RAN node shall consider that the area scope for MDT measurement collection in PNI-NPN areas is defined only by the areas included in the *PNI-NPN Area Scope of MDT* IE.

If the *Partially Allowed NSSAI* IE is contained in the HANDOVER REQUEST message, the NG-RAN node shall, if supported, deduce from it the partially allowed network slices for the UE, store and replace any previously received Partially Allowed NSSAI and use it as specified in TS 23.501 [9].

If the *MBS Support Indicator* IE is included in the *Handover Request Acknowledge Transfer* IE in the HANDOVER REQUEST ACKNOWLEDGE message, the SMF shall, if supported, handle this information as specified in TS 23.247 [44].

If the *ECN Marking or Congestion Information Reporting Status* IE is included in the *Handover Request Acknowledge Transfer* IE, the SMF shall, if supported, use it to deduce if ECN marking at NG-RAN or ECN marking at UPF or congestion information reporting is active or not active as described in TS 23.501 [9].

If the *Network Slice Area Scope of MDT* IE is included in the *MDT Configuration-NR* IE included in the HANDOVER REQUEST message, the NG-RAN node shall, if supported, use it to derive the MDT area scope for MDT measurement collection. Upon reception of the *Network Slice Area Scope of MDT* IE, the NG-RAN node shall consider that the area scope for MDT measurement collection is defined only by the *Network Slice Area Scope of MDT* IE and the *Area Scope of MDT* IE.

**Interactions with RRC Inactive Transition Report procedure:**

If the *RRC Inactive Transition Report Request* IE is included in the HANDOVER REQUEST message and set to "subsequent state transition report", the NG-RAN node shall, if supported, send the RRC INACTIVE TRANSITION REPORT message to the AMF to report the RRC state of the UE when the UE enters or leaves RRC\_INACTIVE state.

[snip]

#### 8.4.2.4 Abnormal Conditions

If the supported algorithms for encryption defined in the *Encryption Algorithms* IE in the *UE Security Capabilities* IE, plus the mandated support of EEA0 and NEA0 in all UEs (TS 33.501 [13]), do not match any allowed algorithms defined in the configured list of allowed encryption algorithms in the NG-RAN node (TS 33.501 [13]), the target NG-RAN node shall reject the procedure using the HANDOVER FAILURE message.

If the supported algorithms for integrity defined in the *Integrity Protection Algorithms* IE in the *UE Security Capabilities* IE, plus the mandated support of the EIA0 and NIA0 algorithm in all UEs (TS 33.501 [13]), do not match any allowed algorithms defined in the configured list of allowed integrity protection algorithms in the NG-RAN node (TS 33.501 [13]), the target NG-RAN node shall reject the procedure using the HANDOVER FAILURE message.

If the target NG-RAN node receives a HANDOVER REQUEST message which does not contain the *Mobility Restriction List* IE, and the serving PLMN cannot be determined otherwise by the NG-RAN node, the target NG-RAN node shall reject the procedure using the HANDOVER FAILURE message.

If the target NG-RAN node receives a HANDOVER REQUEST message containing the *Mobility Restriction List* IE, and the serving PLMN indicated is not supported by the target cell, the target NG-RAN node shall reject the procedure using the HANDOVER FAILURE message.

If the target NG-RAN node receives a HANDOVER REQUEST message containing an *Allowed PNI-NPN List* IE in the *Mobility Restriction List* IE which does not allow access to the cell indicated in the *Target Cell ID* IE, the target NG-RAN node shall reject the procedure using the HANDOVER FAILURE message with an appropriate cause value and may include the *Cell CAG Information* IE corresponding to this cell and the selected PLMN.

If the target NG-RAN node receives a HANDOVER REQUEST message containing a *Serving PLMN* IE and *Serving NID* IE in the *Mobility Restriction List* IE which does not allow access to the cell indicated in the *Target Cell ID* IE, the target NG-RAN node shall reject the procedure using the HANDOVER FAILURE message with an appropriate cause value.

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* IE is set to "PNI-NPN Based MDT", the NG-RAN node shall, if supported, use the *Area Scope of MDT* 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 *Partially Allowed NSSAI* IE is received in the HANDOVER REQUEST message and the total number of S-NSSAIs included in the Allowed NSSAI and Partially Allowed NSSAI exceeds eight, the NG-RAN node shall consider the procedure as failed.

If any of the S-NSSAI which is present in the *Partially Allowed NSSAI* IE is also present in the *Allowed NSSAI* IE, the NG-RAN node shall consider the procedure as failed.

If the *Network Slice Area Scope of MDT* IE is included in the *MDT Configuration-NR* IE in the HANDOVER REQUEST message, and the *MDT Activation* IE is set to “Logged MDT only”, the NG-RAN node shall ignore the *Network Slice Area Scope of MDT* IE.

[snip]

### 8.11.1 Trace Start

[snip]

#### 8.11.1.2 Successful Operation

[snip]

If the *PNI-NPN Area Scope of MDT* IE is included in the MDT Configuration-NR IE included in the TRACE START message, the NG-RAN node shall, if supported, use it to derive the MDT area scope for MDT measurement collection in PNI-NPN areas. Upon reception of the *PNI-NPN Area Scope of MDT* IE, the NG-RAN node shall consider that the area scope for MDT measurement collection in PNI-NPN areas is defined only by the areas included in the *PNI-NPN Area Scope of MDT* IE.

If the *Trace Activation* IE includes the *MN Only MDT Collection* IE and the *MN Only MDT Collection* IE is set to "MN only", the NG-RAN node shall, if supported, consider that the *MDT Configuration-NR* IE or the *MDT Configuration-EUTRA* IE is only applicable for the MN if the UE is configured with MR-DC.

If the *Network Slice Area Scope of MDT* IE is included in the MDT Configuration-NR IE included in the TRACE START message, the NG-RAN node shall, if supported, use it to derive the MDT area scope for MDT measurement collection. Upon reception of the *Network Slice Area Scope of MDT* IE, the NG-RAN node shall consider that the area scope for MDT measurement collection is defined only by the *Network Slice Area Scope of MDT* IE and the *Area Scope of MDT* IE.

**Interactions with other procedures:**

If the NG-RAN node is not able to initiate the trace session due to ongoing handover of the UE to another NG-RAN node, the NG-RAN node shall initiate a Trace Failure Indication procedure with the appropriate cause value.

#### 8.11.1.3 Abnormal Conditions

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* IE is set to "PNI-NPN Based MDT", the NG-RAN node shall, if supported, use the *Area Scope of MDT* 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 *Network Slice Area Scope of MDT* IE is included in the *MDT Configuration-NR* IE in the TRACE START message, and the *MDT Activation* IE is set to “Logged MDT only”, the NG-RAN node shall ignore the *Network Slice Area Scope of MDT* IE.

|  |
| --- |
| **Next change, ommited text not changed** |

#### 9.3.1.169 MDT Configuration-NR

This 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, Logged MDT only, Immediate MDT and Trace, …) |  | - |  |
| CHOICE *Area Scope of MDT* | M |  |  |  | - |  |
| *>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** |  | *1..<maxnoofCellIDforMDT>* |  |  | - |  |
| >>>NR CGI | M |  | 9.3.1.7 |  | - |  |
| *>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 |  | 9.3.3.10 | The TAI is derived using the current serving PLMN. | - |  |
| *>PLMN wide* |  |  | NULL |  |  |  |
| *>TAI 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. |  |  |
| **>>TAI List for MDT** |  | *1..<maxnoofTAforMDT>* |  |  | - |  |
| >>>TAI | M |  | 9.3.3.11 |  | - |  |
| *>PNI-NPN Based MDT* |  |  |  |  | YES | ignore |
| >>CAG List for MDT |  |  | 9.3.3.65 |  | - |  |
| *>SNPN Cell Based MDT* |  |  |  |  | YES | ignore |
| **>>SNPN Cell ID List for MDT** |  | *1..<maxnoofCellIDforMDT>* |  |  | - |  |
| >>>NR CGI | M |  | 9.3.1.7 |  | - |  |
| >>>NID | M |  | 9.3.3.42 | Identifies an SNPN together with the PLMNIdentity in the *NR CGI* IE. | - |  |
| *>SNPN TAI Based MDT* |  |  |  |  | YES | ignore |
| **>>SNPN TAI List for MDT** |  | *1..<maxnoofTAforMDT>* |  |  | - |  |
| >>>TAI | M |  | 9.3.3.11 |  | - |  |
| >>>NID | M |  | 9.3.3.42 | Identifies an SNPN together with the PLMNIdentity in the *TAI* IE. | - |  |
| *>SNPN Based MDT* |  |  |  |  | YES | ignore |
| **>>SNPN List for MDT** |  | *1..<maxnoofMDTSNPNs>* |  |  | - |  |
| >>>PLMN Identity | M |  | 9.3.3.5 |  | - |  |
| >>>NID | M |  | 9.3.3.42 | Identifies an SNPN together with the *PLMN Identity* IE. | - |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| CHOICE *MDT Mode* | M |  |  |  | - |  |
| *>Immediate MDT* |  |  |  |  |  |  |
| >>Measurements to Activate | M |  | BITSTRING  (SIZE(8)) | Each position in the bitmap indicates a MDT measurement, as defined in TS 37.320 [41].  First Bit = M1,  Second Bit= M2,  Third Bit = M4,  Fourth Bit = M5,  Fifth Bit = M6,  Sixth Bit = M7,  Seventh Bit = logging of M1 from event triggered measurement reports according to existing RRM configuration,  other bits reserved for future use.  Value “1” indicates “activate” and value “0” indicates “do not activate”. | - |  |
| >>M1 Configuration | C-ifM1 |  | 9.3.1.171 |  | - |  |
| >>M4 Configuration | C-ifM4 |  | 9.3.1.172 |  | - |  |
| >>M5 Configuration | C-ifM5 |  | 9.3.1.173 |  | - |  |
| >>M6 Configuration | C-ifM6 |  | 9.3.1.174 |  | - |  |
| >>M7 Configuration | C-ifM7 |  | 9.3.1.175 |  | - |  |
| >>Bluetooth Measurement Configuration | O |  | 9.3.1.177 |  | - |  |
| >>WLAN Measurement Configuration | O |  | 9.3.1.178 |  | - |  |
| >>MDT Location Information | O |  | 9.3.1.176 |  | - |  |
| >>Sensor Measurement Configuration | O |  | 9.3.1.179 |  | - |  |
| *>Logged MDT* |  |  |  |  |  |  |
| >>Logging Interval | M |  | ENUMERATED (320ms, 640ms, 1280ms, 2560ms, 5120ms, 10240ms, 20480ms, 30720ms, 40960ms, 61440ms, infinity, …) | Corresponds to the *LoggingInterval* IE as defined in TS 38.331 [18]. | - |  |
| >>Logging Duration | M |  | ENUMERATED (10, 20, 40, 60, 90,120, …) | Corresponds to the *LoggingDuration* IE as defined in TS 38.331 [18]. Unit: [minute]. | - |  |
| >>CHOICE *Report Type* | M |  |  |  | - |  |
| *>>>Periodical* |  |  | NULL |  |  |  |
| *>>>Event Triggered* |  |  |  |  |  |  |
| >>>>Event Trigger Logged MDT Configuration | M |  | 9.3.1.180 |  | - |  |
| >>Bluetooth Measurement Configuration | O |  | 9.3.1.177 |  | - |  |
| >>WLAN Measurement Configuration | O |  | 9.3.1.178 |  | - |  |
| >>Sensor Measurement Configuration | O |  | 9.3.1.179 |  | - |  |
| >>Area Scope of Neighbour Cells | O |  | 9.3.1.182 |  | - |  |
| >>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 [18]. | YES | ignore |
| Signalling Based MDT PLMN List | O |  | MDT PLMN List  9.3.1.168 |  | - |  |
| **PNI-NPN Area Scope of MDT** |  | *0..1* |  | This IE is ignored if the *Area Scope of MDT* IE is set to "PLMN Wide" | YES | ignore |
| >CAG List for MDT | M |  | 9.3.3.65 |  | - |  |
| **Network Slice Area Scope of MDT** | O |  | 9.3.3.A |  | YES | ignore |
|  |  |  |  |  |  |  |

|  |  |
| --- | --- |
| 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 |
| C-ifM1 | This IE shall be present if the *Measurements to Activate* IE has the first bit set to “1”. |
| C-ifM4 | This IE shall be present if the *Measurements to Activate* IE has the third bit set to “1”. |
| C-ifM5 | This IE shall be present if the *Measurements to Activate* IE has the fourth bit set to “1”. |
| C-ifM6 | This IE shall be present if the Measurements to Activate IE has the fitth bit set to “1”. |
| C-ifM7 | This IE shall be present if the Measurements to Activate IE has the sixth bit set to “1”. |

|  |
| --- |
| **Next change, ommited text not changed** |

9.3.3.A Network Slice Area Scope of MDT

This IE is used to identify the list of network slices for MDT.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **IE/Group Name** | **Presence** | **Range** | **IE type and reference** | **Semantics description** | |
| **Network Slice List for MDT** |  | *1>* |  |  | |
| **>Network Slice Item for MDT** |  | *1..<maxnoofMDTPLMNs>* |  |  | |
| >PLMN Identity | M |  | 9.3.3.5 |  | |
| **>Slice MDT List** |  | *1* |  |  |
| **>>Slice MDT Item** |  | *1..<*maxnoofSliceItemsforMDT *>* |  |  |
| >>>S-NSSAI | M |  | 9.3.1.24 |  | |

|  |  |
| --- | --- |
| **Range bound** | **Explanation** |
| maxnoofMDTPLMNs | Maximum no. of PLMNs in the MDT PLMN list. Value is 16. |
| maxnoofSliceItemsforMDT | Maximum no. of S-NSSAIs for MDT area scope. Value is 1024. |

|  |
| --- |
| **Next change, ommited text not changed** |

### 9.4.5 Information Element Definitions

-- ASN1START

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

--

-- Information Element Definitions

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

[snip]

id-MBSSessionToReleaseList,

id-MBSSessionSetupRequestList,

id-MBSSessionSetuporModifyRequestList,

id-MDTConfiguration,

id-MicoAllPLMN,

id-NetworkInstance,

id-NetworkSliceAreaScopeofMDT,

id-NGAPIESupportInformationRequestList,

id-NGAPIESupportInformationResponseList,

id-NID,

id-NR-CGI,

id-NRNTNTAIInformation,

id-NPN-MobilityInformation,

id-NPN-PagingAssistanceInformation,

id-NPN-Support,

id-NR-PagingeDRXInformation,

id-OldAssociatedQosFlowList-ULendmarkerexpected,

[snip]

maxnoofCandidateRelayUEs,

maxnoofSuccessfulPSCellChangeReports,

maxnoofCellsTSS,

maxnoofPeriodicities,

maxnoofPartiallyAllowedS-NSSAIs,

maxnoofRSPPQoSFlows,

maxnoofSliceItemsforMDT

[snip]

AreaScopeOfMDT-NR-ExtIEs NGAP-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 },

...

}

[snip]

MDT-Configuration-NR-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

{ ID id-PNI-NPN-AreaScopeofMDT CRITICALITY ignore EXTENSION PNI-NPN-AreaScopeofMDT PRESENCE optional }|

{ ID id-NetworkSliceAreaScopeofMDT CRITICALITY ignore EXTENSION NetworkSliceAreaScopeofMDT PRESENCE optional },

...

}

[snip]

NetworkSliceListforMDT ::= ::= SEQUENCE (SIZE(1.. maxnoofMDTPLMNs)) OF NetworkSliceItemforMDT

NetworkSliceItemforMDT ::= SEQUENCE {

plmnID PLMNIdentity,

sliceMDTList SliceMDTList,

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

...

}

NetworkSliceListforMDT-ExtIEs NGAP-PROTOCOL-EXTENSION ::={

...

}

NetworkSliceAreaScopeofMDT ::= SEQUENCE {

networkSliceListforMDT NetworkSliceListforMDT,

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

...

}

NetworkSliceAreaScopeofMDT-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

...

}

SliceMDTList ::= ::= SEQUENCE (SIZE(1.. maxnoofSliceItemsforMDT)) OF SliceMDTItem

SliceMDTItem ::= SEQUENCE {

sNSSAI S-NSSAI,

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

...

}

SliceMDTItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::={

...

}

[snip]

|  |
| --- |
| **Next change, ommited text not changed** |

### 9.4.7 Constant Definitions

-- ASN1START

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

--

-- Constant definitions

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

[snip]

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

--

-- Lists

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

[snip]

maxnoofCAGforMDT INTEGER ::= 256

maxnoofMDTSNPNs INTEGER ::= 16

maxnoofPartiallyAllowedS-NSSAIs INTEGER ::= 8

maxnoofRSPPQoSFlows INTEGER ::= 2048

maxnoofSliceItemsforMDT INTEGER ::= 1024

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

--

-- IEs

--

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

id-AllowedNSSAI ProtocolIE-ID ::= 0

id-AMFName ProtocolIE-ID ::= 1

id-AMFOverloadResponse ProtocolIE-ID ::= 2

[snip]

id-UserPlaneFailureIndication ProtocolIE-ID ::= 435

id-UserPlaneFailureIndicationReport ProtocolIE-ID ::= 436

id-SourceSN-to-TargetSN-QMCInfo ProtocolIE-ID ::= 437

id-QoERVQoEReportingPaths ProtocolIE-ID ::= 438

id-NetworkSliceAreaScopeofMDT ProtocolIE-ID ::= XX1

END

-- ASN1STOP

# Annex – LS to RAN2

**Title:** [DRAFT] **LS on NSAG in Logged MDT**

**Response to:**

**Release: Rel-19**

**Work Item: NR\_ENDC\_SON\_MDT\_Ph4-Core**

**Source: Huawei [will be RAN3]**

**To: RAN2**

**Cc:**

**Contact person: Henrik.olofsson@huawei.com**

**Send any reply LS to: 3GPP Liaisons Coordinator,** [**mailto:3GPPLiaison@etsi.org**](mailto:3GPPLiaison@etsi.org)

**Attachments:**

1 Overall description

RAN3 has discussed enhancements for SON and MDT in the scope of the new slicing functionality added in Rel-18. RAN3 agreed that it is beneficial to capture the impact of NSAG on UE mobility in the logged MDT report, e.g. to analyse whether the UE is able to perofm cell reselection to cells within the NSAG. RAN3 would kindly like to ask RAN2 to consider adding this this to Logged MDT, if feasible.

2 Actions

**To RAN2**

**ACTION: RAN3 kindly ask RAN2 to take the above into account.**

3 Dates of next RAN3 meetings

Updated meeting schedule can be found at: <https://portal.3gpp.org/?tbid=373&SubTB=381#/>

RAN3#125-bis 2024-10-14 – 2024-10-18 China, CN

RAN3#126 2024-11-18 – 2024-11-22 Orlando, US