**3GPP TSG-RAN WG3 #115-e R3-22xxxx**

**21 Feb -3 Mar 2022**

**Online**

**Agenda item:** 15.4

**Source:** ZTE

**Title:** (TP to BL CR of TS38.413) Alignment of MDT and QoE Measurements

Document for: Agreement

# Introduction

This paper provides TP for 38.413 on the configuration for alignment of MDT and QoE measurements.

# 2. TP to BL CR of 38.413

Start of changes

9.3.1.xx3 UE Application Layer Measurement Information

This IE defines configuration information for the QoE Measurement Collection (QMC) function.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **IE/Group Name** | **Presence** | **Range** | **IE type and reference** | **Semantics description** | **Criticality** | **Assigned Criticality** |
| Container for Application layer Measurement Configuration | O |  | Octet string (1..)[FFS] | Indicates application layer measurement configuration, see Annex L in [xx]. Present in case of initial QoE configuration.[FFS] | - | - |
| Measurement Configuration Application Layer ID | O |  |  | This IE is present only when the message containing it is NG-based handover related. Otherwise, this IE is not needed.The IE indicates the identity of the application layer measurement configuration, as defined in TS 38.331 [18]. | - | - |
| CHOICE *Area Scope of QMC* | M |  |  |  | - | - |
| >*Cell based* |  |  |  |  |  | - |
| >>**Cell ID List for QMC** |  | *1 .. <maxnoofCellIDforQMC>* |  |  |  | - |
| >>>NG-RAN CGI | M |  | 9.3.1.73 |  | - | - |
| >*TA based* |  |  |  |  |  | - |
| >>**TA List for QMC** |  | *1 .. <maxnoofTAforQMC>* |  |  |  | - |
| >>>TAC | M |  | 9.3.3.10 | The TAI is derived using the current serving PLMN. | - | - |
| >*TAI based* |  |  |  |  | - | - |
| >>**TAI List for QMC** |  | *1 .. <maxnoofTAforQMC>* |  |  | - | - |
| >>>TAI | M |  | 9.3.3.11 |  | - | - |
| >*PLMN area based* |  |  |  |  |  | - |
| >>**PLMN List for QMC** |  | *1 .. <maxnoofPLMNforQMC>* |  |  |  | - |
| >>>PLMN Identity | M |  | 9.3.3.5 |  | - | - |
| Service Type | M |  | 9.3.1.xx4 | This IE indicates the service type of UE application layer measurements. | - | - |
| QoE Reference  | M |  | OCTET STRING (SIZE(6)) | *QoE Reference*, as defined in clause 5.2 of TS 28.405 [x]. It consists of MCC+MNC+QMC ID, where the MCC and MNC are coming with the trace activation request from the management system to identify one PLMN containing the management system, and QMC ID is a 3-bytes Octet String. |  |  |
| Measurement Collection Entity IP Address | M |  | Transport Layer Address9.3.2.4 | The IP address of the entity receiving the QoE measurement report. |  |  |
| **S-NSSAI List**  | O | *0 .. 1* |  |  |  |  |
| >S-NSSAI Item |  | *1 .. <maxnoofS-NSSAIforQMC>* |  |  |  |  |
| >>S-NSSAI | M |  | 9.3.1.24 |  |  |  |
| CHOICE *MDT Alignment Information* | O |  |  | Indicates the MDT measurements with which alignment is required. | - | - |
| >S-based MDT |  |  |  |  |  |  |
| >>NG-RAN Trace ID | M |  | OCTET STRING (SIZE(8)) | This IE is composed of the following: Trace Reference defined in TS 32.422 [11] (leftmost 6 octets, with PLMN information encoded as in 9.3.3.1), and Trace Recording Session Reference defined in TS 32.422 [11] (last 2 octets). | - | - |
| >M-based MDT |  |  |  | Present in case of initial QoE configuration. |  |  |
| >>Any Available MDT | M |  | ENUMERATED (true, …) | This IE indicates that the NG-RAN should align the QoE measurement with any ongoing MDT at the same time in the same area for the UE, as specified in TS38.300[8]. | - | - |
| RAN Visible QoE Metric Indication | O |  | 9.3.1.xx5 |  |  |  |

Next change

9.4.5 Information Element Definitions

<unchaned omitted>

-- A

<unchaned omitted>

AMF-TNLAssociationToUpdateItem-ExtIEs NGAP-PROTOCOL-EXTENSION ::= {

 ...

}

AMF-UE-NGAP-ID ::= INTEGER (0..1099511627775)

AnyAvailableMDT ::= ENUMERATED {

 true,

 ...

}

AreaOfInterest ::= SEQUENCE {

 areaOfInterestTAIList AreaOfInterestTAIList OPTIONAL,

 areaOfInterestCellList AreaOfInterestCellList OPTIONAL,

 areaOfInterestRANNodeList AreaOfInterestRANNodeList OPTIONAL,

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

 ...

}

<unchaned omitted>

-- M

<unchaned omitted>

MDT-AlignmentInfo ::= CHOICE {

 s-basedMDT NGRANTraceID,

 m-basedMDT AnyAvailableMDT,

 choice-Extensions ProtocolIE-SingleContainer { { MDT-AlignmentInfo-ExtIEs} }

}

MDT-AlignmentInfo-ExtIEs NGAP-PROTOCOL-IES ::= {

 ...

}

<unchaned omitted>

-- U

<unchaned omitted>

UEAppLayerMeasInfor ::= SEQUENCE {

 serviceType ServiceType,

 qoEReference QoEReference,

 containerForAppLayerMeasConfig OCTET STRING (SIZE(1..1000)) OPTIONAL,

 measConfigAppLayerID INTEGER (0..61, ...) OPTIONAL,

 areaScopeOfQMC AreaScopeOfQMC,

 measCollEntityIPAddress TransportLayerAddress,

 sliceSupportListQMC SliceSupportListQMC OPTIONAL,

 mDT-AlignmentInfo MDT-AlignmentInfo OPTIONAL,

 measurementStatus MeasurementStatus OPTIONAL,

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

 ...

}

<unchaned omitted>

End of changes