**3GPP TSG-WG SA4 Meeting #131-bis-e *S4-250583***

**Online, Apr 11 – 17, 2025 (revision of S4-250530)**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **26.247** | **CR** | **0191** | **rev** | **1** | **Current version:** | **18.3.0** |  |
|  | | | | | | | | |
| *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 |  | Core Network | **X** |

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|  | | | | | | | | | | |
| ***Title:*** | Correction on communication service types for QMC support | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | S4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_QoE\_enh-Core | | | | |  | ***Date:*** | | | 2025-04-08 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | As indicated in R3-250858, the definition of *@communicationServiceType* is a bit misleading. Therefore, this paper intends to add clarity on the definition of *@communicationServiceType.* | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Clarification on definition of *@communicationServiceType* for QMC support. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Unclear definition of *@communicationServiceType.* | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 10.5 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

\* \* \* \* First change \* \* \* \*

## 10.5 Quality Reporting Scheme for DASH

This clause specifies a 3GP-DASH quality reporting scheme.

The quality reporting scheme is signaled using in the **Reporting** element in the **Metrics** element. The URN to be used for the **Reporting**@schemeIdUri shall be "urn:3GPP:ns:PSS:DASH:QM10".

The reporting scheme shall use the quality reporting protocol defined in clause 10.6.

The semantics and XML syntax of the scheme information for the 3GP-DASH quality reporting scheme are specified in Table 34 and Table 35, respectively.

Table 34: Semantics of Quality Reporting Scheme Information

|  |  |  |  |
| --- | --- | --- | --- |
| Element or Attribute Name | | Use | Description |
|  | @apn | O | This attribute gives the access point that should be used for sending the QoE reports. |
|  | @format | O | This field gives the requested format for the reports. Possible formats are: "uncompressed" and "gzip". |
|  | @samplepercentage | O | Percentage of the clients that should report QoE. The client uses a random number generator with the given percentage to find out if the client should report or not. |
|  | @reportingserver | M | The reporting server URL to which the reports will be sent. |
|  | @reportinginterval | O | Indicates the time(s) reports should be sent. If not present, then the client should send a report after the streaming session has ended. If present, @reportingInterval=n indicates that the client should send a report every n-th second provided that new metrics information has become available since the previous report. For each report sent, only the newly collected information since the previous report shall be reported. |
|  | **LocationFilter** | 0..1 | When present, this element indicates the geographic area(s) or location(s) where quality metric collection is requested. When not present, quality metric collection is requested regardless of the device’s location. The LocationFilter element comprises one or more instances of any combination of targeted cell-IDs, polygons and circular areas. Each cell-ID entry in LocationFilter is announced in cellList, and each polygon and circular area entry is announced in the polygonList or and circularAreaList elements, respectively. |
|  | cellList | 0..N | This element specifies a list of cells identified by E-UTRAN-CGI or CGI. |
|  | shape |  | Geographic area comprising one or more instances of polygonList and/or circularAreaList elements. |
|  | polygonList | 0..N | This element, when present, comprises a list of ‘Polygon’ shapes as defined by OMA MLP [51]. |
|  | @confLevel | O | This attribute indicates the probability in percent that the DASH client is located in the corresponding polygon area. It is defined as ‘lev\_conf’ by OMA MLP. If not present, it has default value of 60. |
|  | circularAreaList | 0..N | This element, when present, comprises a list of ‘CircularArea’ shapes as defined by OMA MLP [51]. |
|  | @confLevel | O | This attribute indicates the probability in percent that the DASH client is located in the corresponding circular area. It is defined as ‘lev\_conf’ by OMA MLP. If not present, it has default value of 60. |
|  | @**sliceScope** | O | When present, this attribute indicates a list of network slices in which the QoE collection is requested. When not present, quality metric collection is requested for all network slices. The value is a list of S-NSSAIs. |
|  | @mbsCommunicationServiceType | O | When present, this attribute indicates in which MBS communication service type(s) the QoE collection is additionnaly requested:  - The value mbsMulticast refers to the *MBS Multicast* *communication service* per clause 21.1 of TS 38.300 [71].  - The value mbsBroadcast refers to the *MBS Broadcast communication service* per clause 21.1 of TS 38.300 [71].  - The value both refers to the *MBS Multicast communication service* and/or the *MBS Broadcast communication* service per clause 21.1 of TS 38.300 [71].  When absent, quality metrics collection is not requested for any MBS communication service types. |
| Legend:  For attributes: M=Mandatory, O=Optional, CM=Conditionally Mandatory.  For elements: <minOccurs>…<maxOccurs> (N=unbounded)  Elements are bold; attributes are non-bold and preceded with an @ | | | |

Table 35: Syntax of Quality Reporting Scheme Information

|  |
| --- |
| <?xml version="1.0"?> <xs:schema targetNamespace="urn:3GPP:ns:PSS:AdaptiveHTTPStreaming:2009:qm"   attributeFormDefault="unqualified"   elementFormDefault="qualified"   xmlns:xs="http://www.w3.org/2001/XMLSchema"  xmlns:xlink="http://www.w3.org/1999/xlink"  xmlns="urn:3GPP:ns:PSS:AdaptiveHTTPStreaming:2009:qm">    <xs:annotation>  <xs:appinfo>3GPP DASH Quality Reporting</xs:appinfo>  <xs:documentation xml:lang="en">  This Schema defines the quality reporting scheme information for 3GPP DASH.  </xs:documentation>  </xs:annotation>    <xs:element name="ThreeGPQualityReporting" type="SimpleQualityReportingType"/>    <xs:complexType name="SimpleQualityReportingType">  <xs:sequence>  <xs:element name="LocationFilter" type="LocationFilterType" minOccurs="0"/>  <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>  </xs:sequence>  <xs:attribute name="apn" type="xs:string" use="optional"/>  <xs:attribute name="format" type="FormatType" use="optional"/>  <xs:attribute name="samplePercentage" type="xs:double" use="optional"/>  <xs:attribute name="reportingServer" type="xs:anyURI" use="required"/>  <xs:attribute name="reportingInterval" type="xs:unsignedInt" use="optional"/>  <xs:attribute name="sliceScope" type="UnsignedIntVectorType" use="optional"/>  <xs:attribute name="communicationServiceType" type="CommunicationServiceTypeType" use="optional" default="all"/>  <xs:anyAttribute namespace="##other" processContents="lax"/>  </xs:complexType>    <xs:simpleType name="FormatType">  <xs:restriction base="xs:string">  <xs:enumeration value="uncompressed" />  <xs:enumeration value="gzip" />  </xs:restriction>  </xs:simpleType>  <xs:simpleType name="CommunicationServiceTypeType">  <xs:restriction base="xs:string">  <xs:enumeration value="all" />  <xs:enumeration value="mbsBroadcast" />  <xs:enumeration value="mbsMulticast" />  </xs:restriction>  </xs:simpleType>  <xs:complexType name="LocationFilterType">  <xs:sequence>  <xs:element name="cellID" type="xs:unsignedLong" minOccurs="0" maxOccurs="unbounded"/>  <xs:element name="shape" type="ShapeType" minOccurs="0"/>  <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>  </xs:sequence>  <xs:anyAttribute namespace="##other" processContents="lax"/>  </xs:complexType>  <xs:complexType name="ShapeType">  <xs:sequence>  <xs:element name="PolygonList" type="PolygonListType" minOccurs="0"/>  <xs:element name="CircularAreaList" type="CircularAreaListType" minOccurs="0"/>  <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>  </xs:sequence>  <xs:anyAttribute namespace="##other" processContents="lax"/>  </xs:complexType>  <xs:complexType name="PolygonListType">  <xs:annotation>  <xs:documentation> see [OMA MLP] </xs:documentation>  </xs:annotation>  <xs:sequence>  <xs:element name="Polygon" minOccurs="0" maxOccurs="unbounded"/>  <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>  </xs:sequence>  <xs:attribute name="ConfLevel" type="xs:unsignedInt" use="optional"/>  <xs:anyAttribute namespace="##other" processContents="lax"/>  </xs:complexType>  <xs:complexType name="CircularAreaListType">  <xs:annotation>  <xs:documentation> see [OMA MLP] </xs:documentation>  </xs:annotation>  <xs:sequence>  <xs:element name="CircularArea" minOccurs="0" maxOccurs="unbounded"/>  <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>  </xs:sequence>  <xs:attribute name="ConfLevel" type="xs:unsignedInt" use="optional"/>  <xs:anyAttribute namespace="##other" processContents="lax"/>  </xs:complexType>  <xs:simpleType name="UnsignedIntVectorType">  <xs:list itemType="xs:unsignedInt"/>  </xs:simpleType> </xs:schema> |

\* \* \* \* End of changes \* \* \* \*