**3GPP TSG-S4 Meeting #128*****S4-240855r02***

**Jeju, Republic of Korea, 20th–24th May 2024** revision of S4aI240053

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **26.247** | **CR** | **0185** | **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 | **X** | Radio Access Network |  | Core Network | **X** |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | [EVEX, TEI18] Additional QM10 reporting schema fields for alignment | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | BBC | | | | | | | | | |
| ***Source to TSG:*** | S4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | EVEX, TEI18 | | | | |  | ***Date:*** | | | 2024-05-02 |
|  |  | | | |  | |  | | |  |
| ***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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | Implementation of the metrics reporting specification in 5G-MAG has revealed that the QM10 metrics reporting schema does not currently include details of the network slice, Data Network Name or UE location(s) when the metrics were collected. These fields are present in the events exposed by the Data Collection AF instantiated in the 5GMS AF so that event consumers are able to filter the UE data. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add new elements *SliceInfo*, *DNN* and *Locations* to *QoEReportType* in a new extension schema namespace. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | QoE metrics reporting information cannot be filtered on network slice, Data Network Name or UE location in events exposed by the Data Collection AF. | | | | | | | | |
| ***Q*** | |  | | | | | | | | |
| ***Clauses affected:*** | | 10.6.2, 10.6.3 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | |  | **X** | Other core specifications | | | |  | | |
| ***affected:*** | |  | **X** | Test specifications | | | |  | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | |  | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | CR0185 [S4aI240053]: Submitted for WG ad hoc endoresement.  CR0185r1 [S4-240855]: Resubmitted for WG agreement:   * Expanded data model for UE location. * Illustrated new element in clause 10.6.3 example instance document. | | | | | | | | |

## 

First change

### 10.6.2 Report format

The QoE report is formatted as an XML document that complies with the XML schema in listing 10.6.2-1.

Listing 10.6.2-1: QoE Report XML schema

|  |
| --- |
| <?xml version="1.0"?> <xs:schema version="TSG104-Rel18" xmlns:xs="http://www.w3.org/2001/XMLSchema"  targetNamespace="urn:3gpp:metadata:2017:HSD:receptionreport"  xmlns:sup="urn:3gpp:metadata:2016:PSS:SupplementQoEMetric"  xmlns:rtc="urn:3gpp:metadata:2023:RTC:QoEMetrics"  xmlns:src="urn:3gpp:metadata:2024:RTC:SR\_MSEQoEMetrics"  xmlns:evex="urn:3gpp:metadata:2024:PSS:SupplementalEventExposureReporting"  xmlns:sv="urn:3gpp:metadata:2016:PSS:schemaVersion"  xmlns="urn:3gpp:metadata:2017:HSD:receptionreport" elementFormDefault="qualified">  <xs:element name="ReceptionReport" type="ReceptionReportType"/>   <xs:complexType name="ReceptionReportType">  <xs:sequence>  <xs:element name="QoeReport" type="QoeReportType" minOccurs="0" maxOccurs="unbounded"/>  <xs:element ref="sv:delimiter"/>  <xs:any namespace="##other" processContents="skip" minOccurs="0" maxOccurs="unbounded"/>  </xs:sequence>  <xs:attribute name="contentURI" type="xs:anyURI" use="required"/>  <xs:attribute name="clientID" type="xs:string" use="optional"/>  </xs:complexType>   <xs:complexType name="QoeReportType">  <xs:sequence>  <xs:element name="QoeMetric" type="QoeMetricType" minOccurs="1" maxOccurs="unbounded"/>  <xs:element ref="sup:supplementQoEMetric" minOccurs="0" maxOccurs="1"/>  <xs:element ref="rtc:QoeMetric" minOccurs="0"/>  <xs:element ref="src:QoeMetric" minOccurs="0"/>  <xs:element ref="evex:SliceInfo" minOccurs="0" maxOccurs="1"/>  <xs:element ref="evex:DNN" minOccurs="0" maxOccurs="1"/>  <xs:element ref="evex:Locations" minOccurs="0" maxOccurs="1"/>  <xs:element ref="sv:delimiter"/>  <xs:any namespace="##other" processContents="skip" minOccurs="0" maxOccurs="unbounded"/>  </xs:sequence>  <xs:attribute name="periodID" type="xs:string" use="required"/>  <xs:attribute name="reportTime" type="xs:dateTime" use="required"/>  <xs:attribute name="reportPeriod" type="xs:unsignedInt" use="required"/>  <xs:attribute name="qoeReferenceId" type="xs:hexBinary" use="optional"/>  <xs:attribute name="recordingSessionId" type="xs:hexBinary" use="optional"/>  <xs:anyAttribute processContents="skip"/>  </xs:complexType>  <xs:complexType name="QoeMetricType">  <xs:choice>  <xs:element name="RepSwitchList" type="RepSwitchListType"/>  <xs:element name="AvgThroughput" type="AvgThroughputType" maxOccurs="unbounded"/>  <xs:element name="InitialPlayoutDelay" type="xs:unsignedInt"/>  <xs:element name="BufferLevel" type="BufferLevelType"/>  <xs:element name="PlayList" type="PlayListType"/>  <xs:element name="MPDInformation" type="MpdInformationType" maxOccurs="unbounded"/>  <xs:element name="PlayoutDelayforMediaStartup" type="xs:unsignedInt"/>  </xs:choice>  <xs:anyAttribute processContents="skip"/>  </xs:complexType>   <xs:complexType name="RepSwitchListType">  <xs:choice>  <xs:element name="RepSwitchEvent" type="RepSwitchEventType" maxOccurs="unbounded"/>  </xs:choice>  <xs:anyAttribute processContents="skip"/>  </xs:complexType>   <xs:complexType name="RepSwitchEventType">  <xs:attribute name="to" type="xs:string" use="required"/>  <xs:attribute name="mt" type="xs:duration" use="optional"/>  <xs:attribute name="t" type="xs:dateTime" use="optional"/>  <xs:attribute name="lto" type="xs:unsignedInt" use="optional"/>  <xs:anyAttribute processContents="skip"/>  </xs:complexType>   <xs:complexType name="AvgThroughputType">  <xs:attribute name="numBytes" type="xs:unsignedInt" use="required"/>  <xs:attribute name="activityTime" type="xs:unsignedInt" use="required"/>  <xs:attribute name="t" type="xs:dateTime" use="required"/>  <xs:attribute name="duration" type="xs:unsignedInt" use="required"/>  <xs:attribute name="accessbearer" type="xs:string" use="optional"/>  <xs:attribute name="inactivityType" type="InactivityType" use="optional"/>  <xs:anyAttribute processContents="skip"/>  </xs:complexType>   <xs:simpleType name="InactivityType">  <xs:restriction base="xs:string">  <xs:enumeration value="Pause"/>  <xs:enumeration value="BufferControl"/>  <xs:enumeration value="Error"/>  </xs:restriction>  </xs:simpleType>  <xs:complexType name="BufferLevelType">  <xs:choice>  <xs:element name="BufferLevelEntry" type="BufferLevelEntryType" maxOccurs="unbounded"/>  </xs:choice>   <xs:anyAttribute processContents="skip"/>  </xs:complexType>   <xs:complexType name="BufferLevelEntryType">  <xs:attribute name="t" type="xs:dateTime" use="required"/>  <xs:attribute name="level" type="xs:unsignedInt" use="required"/>  <xs:anyAttribute processContents="skip"/>  </xs:complexType>   <xs:complexType name="PlayListType">  <xs:choice>  <xs:element name="Trace" type="PlayListEntryType" maxOccurs="unbounded"/>  </xs:choice>   <xs:anyAttribute processContents="skip"/>  </xs:complexType>   <xs:complexType name="PlayListEntryType">  <xs:choice>  <xs:element name="TraceEntry" type="PlayListTraceEntryType" maxOccurs="unbounded"/>  </xs:choice>  <xs:attribute name="start" type="xs:dateTime" use="required"/>  <xs:attribute name="mstart" type="xs:duration" use="required"/>  <xs:attribute name="startType" type="StartType" use="required"/>  <xs:anyAttribute processContents="skip"/>  </xs:complexType>   <xs:complexType name="PlayListTraceEntryType">  <xs:attribute name="representationId" type="xs:string" use="optional"/>  <xs:attribute name="subrepLevel" type="xs:unsignedInt" use="optional"/>  <xs:attribute name="start" type="xs:dateTime" use="required"/>  <xs:attribute name="sstart" type="xs:duration" use="required"/>  <xs:attribute name="duration" type="xs:unsignedInt" use="required"/>  <xs:attribute name="playbackSpeed" type="xs:double" use="optional"/>  <xs:attribute name="stopReason" type="StopReasonType" use="optional"/>  <xs:attribute name="stopReasonOther" type="xs:string" use="optional"/>  <xs:anyAttribute processContents="skip"/>  </xs:complexType>   <xs:simpleType name="StartType">  <xs:restriction base="xs:string">  <xs:enumeration value="NewPlayoutRequest"/>  <xs:enumeration value="Resume"/>  <xs:enumeration value="OtherUserRequest"/>  <xs:enumeration value="StartOfMetricsCollectionPeriod"/>  </xs:restriction>  </xs:simpleType>  <xs:simpleType name="StopReasonType">  <xs:restriction base="xs:string">  <xs:enumeration value="RepresentationSwitch"/>  <xs:enumeration value="Rebuffering"/>  <xs:enumeration value="UserRequest"/>  <xs:enumeration value="EndOfPeriod"/>  <xs:enumeration value="EndOfContent"/>  <xs:enumeration value="EndOfMetricsCollectionPeriod"/>  <xs:enumeration value="Failure"/>  <xs:enumeration value="Other"/>  </xs:restriction>  </xs:simpleType>   <xs:complexType name="MpdInformationType">  <xs:choice>  <xs:element name="Mpdinfo" type="RepresentationType" maxOccurs="unbounded"/>  </xs:choice>  <xs:attribute name="representationId" type="xs:string" use="required"/>  <xs:attribute name="subrepLevel" type="xs:unsignedInt" use="optional"/>  <xs:anyAttribute processContents="skip"/>  </xs:complexType>   <xs:complexType name="RepresentationType">  <xs:attribute name="codecs" type="xs:string" use="required"/>  <xs:attribute name="bandwidth" type="xs:unsignedInt" use="required"/>  <xs:attribute name="qualityRanking" type="xs:unsignedInt" use="optional"/>  <xs:attribute name="frameRate" type="xs:double" use="optional"/>  <xs:attribute name="width" type="xs:unsignedInt" use="optional"/>  <xs:attribute name="height" type="xs:unsignedInt" use="optional"/>  <xs:attribute name="mimeType" type="xs:string" use="required"/>  <xs:anyAttribute processContents="skip"/>  </xs:complexType>   <xs:simpleType name="DoubleVectorType">  <xs:list itemType="xs:double"/>  </xs:simpleType>   <xs:simpleType name="StringVectorType">  <xs:list itemType="xs:string"/>  </xs:simpleType>  <xs:simpleType name="UnsignedIntVectorType">  <xs:list itemType="xs:unsignedInt"/>  </xs:simpleType>  </xs:schema> |

The schema in listing 10.6.2-2 is an extension to allow additional QoE metrics.

Listing 10.6.2-2: Additional QoE Metrics XML schema

|  |
| --- |
| <?xml version="1.0" encoding="UTF-8"?>  <xs:schema  xmlns="urn:3gpp:metadata:2016:PSS:SupplementQoEMetric"  xmlns:xs="http://www.w3.org/2001/XMLSchema"  targetNamespace="urn:3gpp:metadata:2016:PSS:SupplementQoEMetric"  elementFormDefault="qualified">  <xs:element name="supplementQoEMetric" type="SupplementQoEMetricType"/>  <xs:complexType name="SupplementQoEMetricType">  <xs:sequence>  <xs:element name="deviceinformation" type="DeviceInformationType" minOccurs="0"/>  <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>  </xs:sequence>  </xs:complexType>  <xs:complexType name="DeviceInformationType">  <xs:choice>  <xs:element name="Entry" type="DeviceInformationEntryType" maxOccurs="unbounded"/>  </xs:choice>  <xs:anyAttribute processContents="skip"/>  </xs:complexType>  <xs:complexType name="DeviceInformationEntryType">  <xs:attribute name="start" type="xs:dateTime" use="required"/>  <xs:attribute name="mstart" type="xs:duration" use="required"/>  <xs:attribute name="videoWidth" type="xs:unsignedInt" use="required"/>  <xs:attribute name="videoHeight" type="xs:unsignedInt" use="required"/>  <xs:attribute name="screenWidth" type="xs:unsignedInt" use="required"/>  <xs:attribute name="screenHeight" type="xs:unsignedInt" use="required"/>  <xs:attribute name="pixelWidth" type="xs:double" use="required"/>  <xs:attribute name="pixelHeight" type="xs:double" use="required"/>  <xs:attribute name="fieldOfView" type="xs:double" use="required"/>  <xs:anyAttribute processContents="skip"/>  </xs:complexType>  </xs:schema> |

The schema in listing 10.6.2-2a is an extension to allow additional fields to be included in QoE metrics reports to support event exposure.

Listing 10.6.2-2a: Supplemental event exposure reporting fields XML schema

|  |
| --- |
| <?xml version="1.0" encoding="UTF-8"?>  <xs:schema version="TSG104-Rel18"  xmlns="urn:3gpp:metadata:2024:PSS:SupplementalEventExposureReportingFields"  xmlns:xs="http://www.w3.org/2001/XMLSchema"  targetNamespace="urn:3gpp:metadata:2024:PSS:SupplementalEventExposureReportingFields"  elementFormDefault="qualified">  <!-- Slice identification -->  <xs:simpleType name="SliceDifferentiatorType">  <xs:restriction base="xs:string">  <xs:pattern value="[A-Fa-f0-9]{6}"/>  </xs:restriction>  </xs:simpleType>  <xs:complexType name="SliceInfoType">  <xs:annotation>  <xs:documentation>Information about a network slice.</xs:documentation>  </xs:annotation>  <xs:attribute name="sst" type="xs:unsignedByte" use="required">  <xs:annotation>  <xs:documentation>Slice/Service Type, expressed as an integer between 0 and 255 inclusive.</xs:documentation>  </xs:annotation>  </xs:attribute>  <xs:attribute name="sd" type="SliceDifferentiatorType" use="optional">  <xs:annotation>  <xs:documentation>Slice Differentiator, expressed as a 6-digit hexadecimal string.</xs:documentation>  </xs:annotation>  </xs:attribute>  <xs:anyAttribute processContents="skip"/>  </xs:complexType>  <xs:element name="SliceInfo" type="SliceInfoType"/>  <!-- Data Network naming -->  <xs:element name="DNN" type="xs:string" nillable="false"/>  <!-- Location identification -->  <xs:simpleType name="CGIType">  <xs:restriction base="xs:string">  <xs:pattern value="\d{2,3}-^\d{3}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}"/>  </xs:restriction>  </xs:simpleType>  <xs:simpleType name="ECGIType">  <xs:restriction base="xs:string">  <xs:pattern value="\d{2,3}-^\d{3}$-[A-Fa-f0-9]{7}(-[A-Fa-f0-9]{11})+"/>  </xs:restriction>  </xs:simpleType>  <xs:simpleType name="NCGIType">  <xs:restriction base="xs:string">  <xs:pattern value="\d{2,3}-^\d{3}-[A-Fa-f0-9]{9}(-[A-Fa-f0-9]{11})+"/>  </xs:restriction>  </xs:simpleType>  <xs:complexType name="UserLocationsType">  <xs:annotation>  <xs:documentation>A set of UE locations.</xs:documentation>  </xs:annotation>  <xs:sequence minOccurs="1" maxOccurs="unbounded">  <xs:choice>  <xs:element name="CGI" type="CGIType">  <xs:annotation>  <xs:documentation>A string of four numeric codes separated by hyphen characters that encode a Cell Global Identification per clause 4.3.1 of 3GPP TS 23.003:  -- Mobile Country Code (MCC) part of the PLMN ID, as defined in clause 9.3.3.5 of 3GPP TS 38.413, encoded using a string of 2 or 3 decimal digits.  - Mobile Network Code (MNC) part of the PLMN ID, as defined in clause 9.3.3.5 of 3GPP TS 38.413, encoded using a string of exactly 3 decimal digits.  - A Location Area Code (LAC) encoded using a string of 4 hexadecimal digits with the most significant nybble appearing first, and padded with leading zeroes as necessary.  - A Cell Identification (CI) encoded using a string of 4 hexadecimal digits with the most significant nybble appearing first, and padded with leading zeroes as necessary.</xs:documentation>  </xs:annotation>  </xs:element>  <xs:element name="ECGI" type="ECGIType">  <xs:annotation>  <xs:documentation>A string of four numeric codes separated by hyphen characters that encode a E-UTRAN Cell Global Identification per clause 19.6 of 3GPP TS 23.003:  - Mobile Country Code (MCC) part of the PLMN ID, as defined in clause 9.3.3.5 of 3GPP TS 38.413, encoded using a string of 2 or 3 decimal digits.  - Mobile Network Code (MNC) part of the PLMN ID, as defined in clause 9.3.3.5 of 3GPP TS 38.413, encoded using a string of exactly 3 decimal digits.  - E-UTRAN Cell Identity (ECI), as specified in clause 9.3.1.9 of 3GPP TS 38.413, encoded as a string of 7 hexadecimal digits with the most significant nybble appearing first, and padded with leading zeroes as necessary.  - Optional Network Identifier (NID), as specified in 3GPP TS 23.003 and clause 5.30.2.1 3GPP TS 23.501, encoded as a string of 11 hexadecimal digits with the most significant nybble appearing first, and padded with leading zeroes as necessary.</xs:documentation>  </xs:annotation>  </xs:element>  <xs:element name="NCGI" type="NCGIType">  <xs:annotation>  <xs:documentation>A string of four numeric codes separated by hyphen characters that encode a E-UTRAN Cell Global Identification per clause 19.6 of 3GPP TS 23.003:  - Mobile Country Code (MCC) part of the PLMN ID, as defined in clause 9.3.3.5 of 3GPP TS 38.413, encoded using a string of 2 or 3 decimal digits.  - Mobile Network Code (MNC) part of the PLMN ID, as defined in clause 9.3.3.5 of 3GPP TS 38.413, encoded using a string of exactly 3 decimal digits.  - NR Cell Identity (NCI), as specified in clause 9.3.1.7 of 3GPP TS 38.413, encoded as a string of 9 hexadecimal digits with the most significant nybble appearing first, and padded with leading zeroes as necessary.  - Optional Network Identifier (NID), as specified in 3GPP TS 23.003 and clause 5.30.2.1 of 3GPP TS 23.501, encoded as a string of 11 hexadecimal digits with the most significant nybble appearing first, and padded with leading zeroes as necessary.</xs:documentation>  </xs:annotation>  </xs:element>  </xs:choice>  <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>  </xs:sequence>  <xs:anyAttribute processContents="skip"/>  </xs:complexType>  <xs:element name="Locations" type="LocationsType"/>  </xs:schema> |

The schema in listing 10.6.2-3 is providing the schema for the version.

Listing 10.6.2-3: XML Schema for the version

|  |
| --- |
| <?xml version="1.0" encoding="UTF-8"?>  <xs:schema xmlns="urn:3gpp:metadata:2016:PSS:schemaVersion"  xmlns:xs="http://www.w3.org/2001/XMLSchema"  targetNamespace="urn:3gpp:metadata:2016:PSS:schemaVersion"  elementFormDefault="qualified">  <xs:element name="schemaVersion" type="xs:unsignedInt"/>  <xs:element name="delimiter" type="xs:byte"/>  </xs:schema> |

If a supplementQoEMetric needs to be sent when no ordinary QoEMetric is due, a dummy MPDInformation metric shall be sent with codecs="none", bandwidth=0, mimeType="none", representationId="none".

If the attribute qoeReferenceId was defined in the QMC configuration (see clause L.2), the value shall be copied into each QoE report, to facilitate network-side correlation (see [63]). If this attribute was defined the attribute recordingSessionId shall also be returned for each QoE report. When metrics are reported via the QMC functionality (see annex L) the recordingSessionId is a two-byte numeric value defined by the client. It shall remain the same for all QoE reports belonging to the same streaming session, and it should be different for QoE reports belonging to different streaming sessions.

For the QMC scheme, if the **SliceScope** element is included in the QoE configuration and the slice associated with the streaming service is within the **SliceScope**, the DASH client should execute the QoE collection and include the S-NSSAI and DNN that correspond to the report data for support of per-slice QoE reporting and evaluation in OAM. This information may be retrieved via the AT Command +CGDCONT [61]) or the specific traffic mapping with URSP rule [69].

Next change

### 10.6.3 Reporting protocol

For configuration done via the QMC functionality (see annex L), the client shall also send QoE reports via the QMC functionality. For MPD or OMA-DM configuration, if a specific metrics server has been configured, the client shall send QoE reports using the HTTP (RFC 2616) [9] POST request carrying XML-formatted metadata in its body.

An example QoE reporting based on HTTP POST request signalling is shown below:

Listing 10.6.3‑1: Example QoE reporting request

|  |
| --- |
| POST http://www.exampleserver.com HTTP/1.1  Host: 192.68.1.1  User-Agent: Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1; Trident/4.0)  Content-Type: text/xml; charset=utf-8  Content-Length: 4408 |
| <?xml version="1.0"?> <ReceptionReport contentURI="http://www.example.com/content/content.mpd" clientID="35848574673" xmlns="urn:3gpp:metadata:2011:HSD:receptionreport"  xmlns:evex="urn:3gpp:metadata:2024:PSS:SupplementalEventExposureReporting"  xmlns:sv="urn:3gpp:metadata:2016:PSS:schemaVersion"  xsi:schemaLocation="urn:3gpp:metadata:2011:HSD:receptionreport DASH-QoE-Report.xsd"  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">  <QoeReport recordingSessionId="7a25" periodID="Period1" reportTime="2011-02-16T09:00:00" reportPeriod="500">  <QoeMetric>  <HttpList>  <HttpListEntry type="MPD" url="http://www.example.com/content/content.mpd" trequest="2011-02-16T08:59:30" tresponse="2011-02-16T08:59:31" interval="50">   <Trace s="2011-02-16T08:59:30Z" d="171" b="2367 1990 2463 1254"/>  </HttpListEntry>  <HttpListEntry type="InitializationSegment" url="http://www.example.com/content/initRep1.3gp" trequest="2011-02-16T08:59:40" tresponse="2011-02-16T08:59:41" interval="200">   <Trace s="2011-02-16T08:59:40.5Z" d="159" b="9345"/>  </HttpListEntry>  <HttpListEntry type="InitializationSegment" url="http://www.example.com/content/initRep2.3gp" trequest="2011-02-16T08:59:41" tresponse="2011-02-16T08:59:42" interval="200">   <Trace s="2011-02-16T08:59:41.5Z" d="123" b="6723"/>  </HttpListEntry>  <HttpListEntry type="InitializationSegment" url="http://www.example.com/content/initRep3.3gp" trequest="2011-02-16T08:59:42" tresponse="2011-02-16T08:59:43" interval="200">   <Trace s="2011-02-16T08:59:42.5Z" d="195" b="9786"/>  </HttpListEntry>  </HttpList  </QoeMetric>  <QoeMetric>  <InitialPlayoutDelay>10000</InitialPlayoutDelay>  </QoeMetric>  <evex:SliceInfo sst="42" sd="a1b2c3"/>  <evex:UserLocations>  <evex:NCGI>234-015-000000001</evex:NCGI>  </evex:UserLocations>  <evex:DNN>broadband</evex:DNN>  <sv:delimiter>0</sv:delimiter>  </QoeReport>  <QoeReport periodID="Period1" reportTime="2011-02-16T09:08:20" reportPeriod="500">  <QoeMetric>  <BufferLevel>  <BufferLevelEntry t="2011-02-16T09:08:19" level="84673"/>  <BufferLevelEntry t="2011-02-16T09:08:20" level="93874"/>  </BufferLevel>  </QoeMetric>  <QoeMetric>  <RepSwitchList>  <RepSwitchEvent to="Rep2"/>  <RepSwitchEvent to="Rep3"/>  </RepSwitchList>  </QoeMetric>  <evex:SliceInfo sst="42" sd="a1b2c3"/>  <evex:UserLocations>  <evex:NCGI>234-015-000000002</evex:NCGI>  </evex:UserLocations>  <evex:DNN>broadband</evex:DNN>  <sv:delimiter>0</sv:delimiter>  </QoeReport>  <sv:delimiter>0</sv:delimiter> </ReceptionReport> |

End of changes