

CHANGE REQUEST

⌘ **TS 23.140 CR 0198** ⌘ rev - ⌘ Current version: **6.9.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: | UICC apps ME Radio Access Network Core Network

Title:	⌘ Outdated reference to the XML schema.		
Source:	⌘ Nokia, Ericsson		
Work item code:	⌘ MMS6	Date:	⌘ 27/05/2005
Category:	⌘ F	Release:	⌘ Rel-6
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction 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 .		Use <u>one</u> of the following releases: Ph2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) Rel-7 (Release 7)

Reason for change:	⌘ Internal inconsistency in the spec. as 8.7.8.1 refers to an outdated version of the XML schema.		
Summary of change:	⌘ Make 8.7.8.1 pointing to the (normative) Annex L for properly referring to the XML schema.		
Consequences if not approved:	⌘ Internal inconsistency remains. Confusion. Risk of using wrong schema.		

Clauses affected:	⌘ 8.7.8.1						
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N						
<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> Test specifications	X	<input checked="" type="checkbox"/>	⌘			
X							
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	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table> O&M Specifications	X	<input checked="" type="checkbox"/>	⌘			
X							
<input checked="" type="checkbox"/>							
Other comments:	⌘						

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be

downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

8.7.8.1 SOAP Message Format and Encoding Principles

The following principles shall be used in the design of the SOAP implementation of the MM7 interface:

- The schema shall be based on the W3C SOAP 1.1 schema . The schema shall include an indication of the version of the MM7 specification that is supported.

NOTE: The W3C SOAP 1.1 schema will be published by the 3GPP. The URI shall be [the one specified in Annex L. ~~http://www.3gpp.org/ftp/Specs/archive/23_series/23.140/schema/REL-5-MM7-1-1.~~](#)

- The MM7 SOAP messages shall consist of a SOAP envelope, SOAP Header element and SOAP Body element, as described in [68].
- The SOAP EncodingStyle [68] should not be used.
- Transaction management shall be handled in the SOAP Header element. The TransactionID shall be included as a SOAP Header entry. The SOAP *actor* [68] attribute should not be specified in the SOAP Header entry. The SOAP *mustUnderstand* [68] attribute should be specified with value “1”.
- All MM7 information elements, except for the TransactionID, shall be included in the SOAP Body element.
- XML element names shall use Upper Camel Case convention, where words are concatenated to form an element name with the first letter of each word in upper case (e.g. EarliestDeliveryTime). The only exception to this rule is where an acronym (e.g. VASP) is used - in such cases all of the letters of the acronym shall be in upper case (e.g. VASPHeader).

This is NOT part of the CR.

It is provided solely for the information of the CR reader.

See highlighted URL, below.

Annex L (normative): MM7 XML Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema targetNamespace="http://www.3gpp.org/ftp/Specs/archive/23_series/23.140/schema/REL-6-MM7-1-4" xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:tns="http://www.3gpp.org/ftp/Specs/archive/23_series/23.140/schema/REL-6-MM7-1-4" elementFormDefault="qualified" attributeFormDefault="unqualified">

<xs:import namespace="http://schemas.xmlsoap.org/soap/envelope/" schemaLocation="http://schemas.xmlsoap.org/soap/envelope/">

  <xs:element name="TransactionID">
    <xs:annotation>
      <xs:documentation>The transaction ID that shall be included in the SOAP Header</xs:documentation>
    </xs:annotation>
    <xs:complexType>
      <xs:simpleContent>
        <xs:extension base="xs:string">
          <xs:attribute ref="soap:mustUnderstand"/>
          <xs:attribute ref="soap:encodingStyle"/>
          <xs:attribute ref="soap:actor"/>
        </xs:extension>
      </xs:simpleContent>
    </xs:complexType>
  </xs:element>
  <xs:element name="SubmitReq" type="tns:submitReqType">
    <xs:annotation>
      <xs:documentation>VASP to MMS : Sending MM from the VASP to one or more recipients</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="SubmitRsp" type="tns:submitRspType">
    <xs:annotation>
      <xs:documentation>MMS to VASP: Response to a VASP after MM submission request</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="DeliverReq" type="tns:deliverReqType">
    <xs:annotation>
      <xs:documentation>MMS to VASP : Delivery of MM from the MMS Relay/Server to the VASP</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="DeliverRsp" type="tns:deliverRspType">
    <xs:annotation>
      <xs:documentation>VASP to MMS : Response to a message delivered to the VASP from the MMS Relay/Server</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="CancelReq" type="tns:cancelReqType">
    <xs:annotation>
      <xs:documentation>VASP to MMS: Request to cancel a message submission</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="CancelRsp" type="tns:genericResponseType">
    <xs:annotation>
      <xs:documentation>MMS to VASP: Response to a VASP after MM cancellation request</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="ReplaceReq" type="tns:replaceReqType">
```

```

        <xs:annotation>
          <xs:documentation>VASP to MMS: Request to replace a message which was submitted
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="ReplaceRsp" type="tns:genericResponseType">
      <xs:annotation>
        <xs:documentation>MMS to VASP: Response to a VASP after MM replace request
      </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="extendedCancelReq" type="tns:extendedcancelReqType">
    <xs:annotation>
      <xs:documentation>VASP to MMS: Extended Request to cancel a message submission
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="extendedCancelRsp" type="tns:extendedcancelRspType">
  <xs:annotation>
    <xs:documentation>MMS to VASP: Response to a VASP after extended MM cancellation
request </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="extendedReplaceReq" type="tns:extendedreplaceReqType">
  <xs:annotation>
    <xs:documentation>VASP to MMS: extended Request to replace a message which was
submitted </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="extendedReplaceRsp" type="tns:extendedreplaceRspType">
  <xs:annotation>
    <xs:documentation>MMS to VASP: Response to a VASP after extended MM cancellation
request </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="DeliveryReportReq" type="tns:deliveryReportReqType">
  <xs:annotation>
    <xs:documentation>MMS to VASP : Delivery Report from one of the MM
recipients</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="DeliveryReportRsp" type="tns:genericResponseType">
  <xs:annotation>
    <xs:documentation>VASP to MMS: Response to a delivery report delivered to the
VASP</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="ReadReplyReq" type="tns:readReplyReqType">
  <xs:annotation>
    <xs:documentation>MMS to VASP : Delivery Report from one of the MM
recipients</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="ReadReplyRsp" type="tns:genericResponseType">
  <xs:annotation>
    <xs:documentation>VASP to MMS: Response to a read reply delivered to the
VASP</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="RSErrorRsp" type="tns:genericResponseType">
  <xs:annotation>
    <xs:documentation>MMS to VASP: Error response to a any bad request sent to the MMS
Relay/Server</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="VASPErrorRsp" type="tns:genericResponseType">
  <xs:annotation>
    <xs:documentation>VASP to MMS: Error response to a any bad request sent to the
VASP</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:complexType name="senderIDType">
  <xs:sequence>
    <xs:element name="VASPID" type="tns:entityIDType" minOccurs="0"/>
    <xs:element name="VASID" type="tns:entityIDType" minOccurs="0"/>
    <xs:element name="SenderAddress" type="tns:addressType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

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<xs:complexType name="submitReqType">
  <xs:complexContent>
    <xs:extension base="tns:genericVASPRequestType">
      <xs:sequence>
        <xs:element name="Recipients" type="tns:recipientsType"/>
        <xs:element name="ServiceCode" type="tns:serviceCodeType" minOccurs="0"/>
        <xs:element name="LinkedID" type="tns:messageIDType" minOccurs="0"/>
        <xs:element name="MessageClass" type="tns:messageClassType"
default="Informational" minOccurs="0"/>
        <xs:element name="TimeStamp" type="xs:dateTime" minOccurs="0"/>
        <xs:element name="ReplyCharging" minOccurs="0">
          <xs:complexType>
            <xs:attribute name="replyChargingSize" type="xs:positiveInteger"
use="optional"/>
            <xs:attribute name="replyDeadline" type="tns:relativeOrAbsoluteDateType"
use="optional"/>
          </xs:complexType>
        </xs:element>
        <xs:element name="EarliestDeliveryTime" type="tns:relativeOrAbsoluteDateType"
minOccurs="0"/>
        <xs:element name="ExpiryDate" type="tns:relativeOrAbsoluteDateType"
minOccurs="0"/>
        <xs:element name="DeliveryReport" type="xs:boolean" minOccurs="0"/>
        <xs:element name="ReadReply" type="xs:boolean" minOccurs="0"/>
        <xs:element name="Priority" type="tns:priorityType" minOccurs="0"/>
        <xs:element name="Subject" type="xs:string" minOccurs="0"/>
        <xs:element name="ChargedParty" type="tns:chargedPartyType" minOccurs="0"/>
        <xs:element name="ChargedPartyID" type="tns:chargedPartyIDType" minOccurs="0"/>
        <xs:element name="DistributionIndicator" type="xs:boolean" minOccurs="0"/>
        <xs:element name="DeliveryCondition" type="tns:deliveryConditionType"
minOccurs="0"/>
        <xs:element name="ApplicID" type="xs:string" minOccurs="0"/>
        <xs:element name="ReplyApplicID" type="xs:string" minOccurs="0"/>
        <xs:element name="AuxApplicInfo" type="xs:string" minOccurs="0"/>
        <xs:element name="ContentClass" type="tns:contentClassType" minOccurs="0"/>
        <xs:element name="DRMContent" type="xs:boolean" minOccurs="0"/>
        <xs:element name="Content" type="tns:contentReferenceType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="submitRspType">
  <xs:complexContent>
    <xs:extension base="tns:genericResponseType">
      <xs:sequence>
        <xs:element name="MessageID" type="tns:messageIDType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="deliverReqType">
  <xs:complexContent>
    <xs:extension base="tns:genericRSReqType">
      <xs:sequence>
        <xs:element name="VASPID" type="tns:entityIDType" minOccurs="0"/>
        <xs:element name="VASID" type="tns:entityIDType" minOccurs="0"/>
        <xs:element name="LinkedID" type="tns:messageIDType" minOccurs="0"/>
        <xs:element name="Sender" type="tns:addressType"/>
        <xs:element name="Recipients" type="tns:recipientsType" minOccurs="0"/>
        <xs:element name="Previouslysentby" type="tns:previouslySentByType"
minOccurs="0"/>
        <xs:element name="Previouslysentdateandtime" type="tns:previouslySentByDateTime"
minOccurs="0"/>
        <xs:element name="SenderSPI" type="tns:serviceProviderIDType" minOccurs="0"/>
        <xs:element name="RecipientSPI" type="tns:serviceProviderIDType" minOccurs="0"/>
        <xs:element name="TimeStamp" type="xs:dateTime" minOccurs="0"/>
        <xs:element name="ReplyChargingID" type="tns:messageIDType" minOccurs="0"/>
        <xs:element name="Priority" type="tns:priorityType" minOccurs="0"/>
        <xs:element name="Subject" type="xs:string" minOccurs="0"/>
        <xs:element name="ApplicID" type="xs:string" minOccurs="0"/>
        <xs:element name="ReplyApplicID" type="xs:string" minOccurs="0"/>
        <xs:element name="AuxApplicInfo" type="xs:string" minOccurs="0"/>
        <xs:element name="UACapabilities" type="tns:capabilitiesType" minOccurs="0"/>
        <xs:element name="Content" type="tns:contentReferenceType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="deliverRspType">

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<xs:complexContent>
  <xs:extension base="tns:genericResponseType">
    <xs:sequence>
      <xs:element name="ServiceCode" type="tns:serviceCodeType" minOccurs="0"/>
    </xs:sequence>
  </xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:complexType name="cancelReqType">
  <xs:complexContent>
    <xs:extension base="tns:genericVASPRequestType">
      <xs:sequence>
        <xs:element name="MessageID" type="tns:messageIDType"/>
        <xs:element name="ApplicID" type="xs:string" minOccurs="0"/>
        <xs:element name="ReplyApplicID" type="xs:string" minOccurs="0"/>
        <xs:element name="AuxApplicInfo" type="xs:string" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="extendedcancelReqType">
  <xs:complexContent>
    <xs:extension base="tns:genericVASPRequestType">
      <xs:sequence>
        <xs:element name="CancelID" type="tns:messageIDType"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="extendedcancelRspType">
  <xs:annotation>
    <xs:documentation>Extended Cancel Response</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="MM7Version" type="tns:versionType"/>
    <xs:element name="Status" type="tns:extendedcancelresponseStatusType"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="replaceReqType">
  <xs:complexContent>
    <xs:extension base="tns:genericVASPRequestType">
      <xs:sequence>
        <xs:element name="MessageID" type="tns:messageIDType"/>
        <xs:element name="ServiceCode" type="tns:serviceCodeType" minOccurs="0"/>
        <xs:element name="TimeStamp" type="xs:dateTime" minOccurs="0"/>
        <xs:element name="ReadReply" type="xs:boolean" minOccurs="0"/>
        <xs:element name="EarliestDeliveryTime" type="tns:relativeOrAbsoluteDateType"
minOccurs="0"/>
        <xs:element name="DistributionIndicator" type="xs:boolean" minOccurs="0"/>
        <xs:element name="ContentClass" type="tns:contentClassType" minOccurs="0"/>
        <xs:element name="DRMContent" type="xs:boolean" minOccurs="0"/>
        <xs:element name="ApplicID" type="xs:string" minOccurs="0"/>
        <xs:element name="ReplyApplicID" type="xs:string" minOccurs="0"/>
        <xs:element name="AuxApplicInfo" type="xs:string" minOccurs="0"/>
        <xs:element name="Content" type="tns:contentReferenceType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="extendedreplaceReqType">
  <xs:sequence>
    <xs:element name="MM7Version" type="tns:versionType"/>
    <xs:element name="VASPID" type="tns:entityIDType" minOccurs="0"/>
    <xs:element name="VASID" type="tns:entityIDType" minOccurs="0"/>
    <xs:element name="ServiceCode" type="tns:serviceCodeType" minOccurs="0"/>
    <xs:element name="ReplaceID" type="tns:messageIDType" minOccurs="0"/>
    <xs:element name="TimeStamp" type="xs:dateTime" minOccurs="0"/>
    <xs:element name="EarliestDeliveryTime" type="tns:relativeOrAbsoluteDateType"
minOccurs="0"/>
    <xs:element name="ExpiryDate" type="tns:relativeOrAbsoluteDateType"
minOccurs="0"/>
    <xs:element name="ReadReply" type="xs:boolean" minOccurs="0"/>
    <xs:element name="DeliveryReport" type="xs:boolean" minOccurs="0"/>
    <xs:element name="Content" type="tns:contentReferenceType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="extendedreplaceRspType">
  <xs:annotation>

```

```

    <xs:documentation>Extended Replace Response</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="MM7Version" type="tns:versionType"/>
    <xs:element name="MessageID" type="tns:messageIDType"/>
    <xs:element name="Status" type="tns:extendedcancelresponseStatusType"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="deliveryReportReqType">
  <xs:complexContent>
    <xs:extension base="tns:genericRSReqType">
      <xs:sequence>
        <xs:element name="MessageID" type="tns:messageIDType"/>
        <xs:element name="Recipient" type="tns:addressType"/>
        <xs:element name="Sender" type="tns:addressType"/>
        <xs:element name="Date" type="xs:dateTime"/>
        <xs:element name="MMStatus" type="tns:mmDeliveryStatusType"/>
        <xs:element name="MMStatusExtension" type="tns:MMStatusExtensionType"
minOccurs="0"/>
        <xs:element name="StatusText" type="xs:string" minOccurs="0"/>
        <xs:element name="ApplicID" type="xs:string" minOccurs="0"/>
        <xs:element name="ReplyApplicID" type="xs:string" minOccurs="0"/>
        <xs:element name="AuxApplicInfo" type="xs:string" minOccurs="0"/>
        <xs:element name="UACapabilities" type="tns:capabilitiesType" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="readReplyReqType">
  <xs:complexContent>
    <xs:extension base="tns:genericRSReqType">
      <xs:sequence>
        <xs:element name="MessageID" type="tns:messageIDType"/>
        <xs:element name="Recipient" type="tns:addressType"/>
        <xs:element name="Sender" type="tns:addressType"/>
        <xs:element name="TimeStamp" type="xs:dateTime"/>
        <xs:element name="MMStatus" type="tns:mmReadStatusType"/>
        <xs:element name="StatusText" type="xs:string" minOccurs="0"/>
        <xs:element name="ApplicID" type="xs:string" minOccurs="0"/>
        <xs:element name="ReplyApplicID" type="xs:string" minOccurs="0"/>
        <xs:element name="AuxApplicInfo" type="xs:string" minOccurs="0"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="genericRSReqType">
  <xs:annotation>
    <xs:documentation>base for all request messages from R/S to VASP</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="MM7Version" type="tns:versionType"/>
    <xs:element name="MMSRelayServerID" type="tns:entityIDType" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="genericVASPRequestType">
  <xs:annotation>
    <xs:documentation>Base type for all requests from VASP to R/S</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="MM7Version" type="tns:versionType"/>
    <xs:element name="SenderIdentification" type="tns:senderIDType"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="genericResponseType">
  <xs:annotation>
    <xs:documentation>Any simple response sent </xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="MM7Version" type="tns:versionType"/>
    <xs:element name="Status" type="tns:responseStatusType"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="responseStatusType">
  <xs:annotation>
    <xs:documentation>Status information conveyed in responses</xs:documentation>
  </xs:annotation>
  <xs:all>
    <xs:element name="StatusCode">

```



```

        <xs:simpleType>
          <xs:restriction base="tns:statusCodeType"/>
        </xs:simpleType>
      </xs:element>
      <xs:element name="StatusText" type="tns:statusTextType"/>
      <xs:element name="Details" type="tns:anyDataType" minOccurs="0"/>
    </xs:all>
  </xs:complexType>
  <xs:complexType name="extendedcancelresponseStatusType">
    <xs:annotation>
      <xs:documentation>Status information conveyed in responses</xs:documentation>
    </xs:annotation>
    <xs:all>
      <xs:element name="StatusCode">
        <xs:simpleType>
          <xs:restriction base="tns:statusCodeType"/>
        </xs:simpleType>
      </xs:element>
    </xs:all>
  </xs:complexType>
  <xs:simpleType name="mmDeliveryStatusType">
    <xs:annotation>
      <xs:documentation>Statuses for MM7_delivery_report</xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:string">
      <xs:enumeration value="Expired"/>
      <xs:enumeration value="Retrieved"/>
      <xs:enumeration value="Rejected"/>
      <xs:enumeration value="Indeterminate"/>
      <xs:enumeration value="Forwarded"/>
      <xs:enumeration value="Unrecognised"/>
      <xs:enumeration value="Deferred"/>
      <xs:enumeration value="DeliveryConditionNotMet"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="mmReadStatusType">
    <xs:annotation>
      <xs:documentation>Statuses for MM7_read_reply</xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:string">
      <xs:enumeration value="Indeterminate"/>
      <xs:enumeration value="Read"/>
      <xs:enumeration value="Deleted"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType name="messageIDType">
    <xs:annotation>
      <xs:documentation>Message ID</xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:string"/>
  </xs:simpleType>
  <xs:group name="AddressGroup">
    <xs:choice>
      <xs:element name="RFC2822Address">
        <xs:complexType>
          <xs:simpleContent>
            <xs:extension base="xs:string">
              <xs:attribute name="displayOnly" type="xs:boolean" use="optional"
default="false"/>
            </xs:extension>
            <xs:attributeGroup ref="tns:addressSecurity"/>
          </xs:simpleContent>
        </xs:complexType>
      </xs:element>
      <xs:element name="Number">
        <xs:complexType>
          <xs:simpleContent>
            <xs:extension base="xs:string">
              <xs:attribute name="displayOnly" type="xs:boolean" use="optional"
default="false"/>
            </xs:extension>
            <xs:attributeGroup ref="tns:addressSecurity"/>
          </xs:simpleContent>
        </xs:complexType>
      </xs:element>
      <xs:element name="ShortCode">
        <xs:complexType>
          <xs:simpleContent>

```

```

                <xs:extension base="xs:string">
                    <xs:attribute name="displayOnly" type="xs:boolean" use="optional"
default="false"/>
                </xs:extension>
                </xs:simpleContent>
            </xs:complexType>
        </xs:element>
    </xs:choice>
</xs:group>
<xs:complexType name="multiAddressType">
    <xs:sequence maxOccurs="unbounded">
        <xs:group ref="tns:AddressGroup"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="addressType">
    <xs:group ref="tns:AddressGroup"/>
</xs:complexType>
<xs:attributeGroup name="addressSecurity">
    <xs:attribute name="addressCoding" type="tns:addressCodingType" use="optional"/>
    <xs:attribute name="id" type="xs:ID" use="optional"/>
</xs:attributeGroup>
<xs:simpleType name="addressCodingType">
    <xs:annotation>
        <xs:documentation>obfuscated or encrypted address type</xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:string">
        <xs:enumeration value="encrypted"/>
        <xs:enumeration value="obfuscated"/>
    </xs:restriction>
</xs:simpleType>
<xs:complexType name="previouslySentByType">
    <xs:sequence>
        <xs:element name="UserAgent" type="tns:userAgentInfoType" minOccurs="0"
maxOccurs="unbounded"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="previouslySentByDateTime">
    <xs:sequence>
        <xs:element name="DateTime" type="tns:userAgentDateTimeType" minOccurs="0"
maxOccurs="unbounded"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="userAgentInfoType">
    <xs:complexContent>
        <xs:extension base="tns:addressType">
            <xs:attribute name="sequence" type="xs:positiveInteger" use="optional"/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:complexType name="userAgentDateTimeType">
    <xs:simpleContent>
        <xs:extension base="tns:relativeOrAbsoluteDateType">
            <xs:attribute name="sequence" type="xs:positiveInteger" use="optional"/>
        </xs:extension>
    </xs:simpleContent>
</xs:complexType>
<xs:simpleType name="serviceProviderIDType">
    <xs:annotation>
        <xs:documentation>Service Provider Identification</xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:string"/>
</xs:simpleType>
<xs:simpleType name="chargedPartyIDType">
    <xs:annotation>
        <xs:documentation>The address of the third party which is expected to pay for the
MM</xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:string"/>
</xs:simpleType>
<xs:simpleType name="MMStatusExtensionType">
    <xs:restriction base="xs:string">
        <xs:enumeration value="RejectionByMMSRecipient"/>
        <xs:enumeration value="RejectionByOtherRS"/>
    </xs:restriction>
</xs:simpleType>
<xs:complexType name="serviceCodeType">
    <xs:annotation>

```

```

    <xs:documentation>Used to identify the specific service given for billing
purposes</xs:documentation>
  </xs:annotation>
  <xs:simpleContent>
    <xs:extension base="xs:string">
      <xs:anyAttribute namespace="##other" processContents="lax"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
<xs:simpleType name="entityIDType">
  <xs:annotation>
    <xs:documentation>String used to identify the VAS, VASP and MMSC</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string"/>
</xs:simpleType>
<xs:complexType name="recipientsType">
  <xs:annotation>
    <xs:documentation>At least one of To,CC,Bcc</xs:documentation>
  </xs:annotation>
  <xs:sequence maxOccurs="unbounded">
    <xs:choice>
      <xs:element name="To" type="tns:multiAddressType"/>
      <xs:element name="Cc" type="tns:multiAddressType"/>
      <xs:element name="Bcc" type="tns:multiAddressType"/>
    </xs:choice>
  </xs:sequence>
</xs:complexType>
<xs:simpleType name="messageClassType">
  <xs:annotation>
    <xs:documentation>Message class</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="Personal"/>
    <xs:enumeration value="Informational"/>
    <xs:enumeration value="Advertisement"/>
    <xs:enumeration value="Auto"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="priorityType">
  <xs:annotation>
    <xs:documentation>Priority of MM</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="Normal"/>
    <xs:enumeration value="High"/>
    <xs:enumeration value="Low"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="relativeOrAbsoluteDateType">
  <xs:annotation>
    <xs:documentation>Date which can be relative or absolute</xs:documentation>
  </xs:annotation>
  <xs:union memberTypes="xs:dateTime xs:duration"/>
</xs:simpleType>
<xs:complexType name="deliveryConditionType">
  <xs:annotation>
    <xs:documentation>DeliveryConditions provided in MM7SubmitReq, that all need to be
respected for the MM to be delivered </xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="DC" type="xs:positiveInteger" minOccurs="0" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:simpleType name="chargedPartyType">
  <xs:annotation>
    <xs:documentation>Allows specification of which party - Sender or Reciever pays for
transmission</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="Sender"/>
    <xs:enumeration value="Recipient"/>
    <xs:enumeration value="Both"/>
    <xs:enumeration value="Neither"/>
    <xs:enumeration value="ThirdParty"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="contentClassType">
  <xs:annotation>

```

```

    <xs:documentation>Content Class Type used in MM7_Submit and MM7_Replace
</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="text"/>
    <xs:enumeration value="image-basic"/>
    <xs:enumeration value="image-rich"/>
    <xs:enumeration value="video-basic"/>
    <xs:enumeration value="video-rich"/>
    <xs:enumeration value="megapixel"/>
    <xs:enumeration value="content-basic"/>
    <xs:enumeration value="content-rich"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="versionType">
  <xs:annotation>
    <xs:documentation>Version number in the format of x.y.z </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:enumeration value="6.8.0"/>
    <xs:enumeration value="6.6.0"/>
    <xs:enumeration value="6.5.0"/>
    <xs:enumeration value="6.4.0"/>
    <xs:enumeration value="6.3.0"/>
    <xs:enumeration value="5.10.0"/>
    <xs:enumeration value="5.8.0"/>
    <xs:enumeration value="5.6.0"/>
    <xs:enumeration value="5.5.0"/>
    <xs:enumeration value="5.3.0"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="statusCodeType">
  <xs:annotation>
    <xs:documentation>request status response codes in RES </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:positiveInteger"/>
</xs:simpleType>
<xs:complexType name="contentReferenceType">
  <xs:annotation>
    <xs:documentation>content element including only href</xs:documentation>
  </xs:annotation>
  <xs:attribute name="href" type="xs:anyURI" use="required"/>
  <xs:attribute name="allowAdaptations" type="xs:boolean" default="true" use="optional"/>
</xs:complexType>
<xs:complexType name="capabilitiesType">
  <xs:annotation>
    <xs:documentation>Base attributes for transferring user agent capabilities from R/S to
VASP, UAProf is e.g UserAgent Name, or URL to the UAProfile RDF. The TimeStamp is used to convey the
last known update by the MMS R/S to the UACapabilities</xs:documentation>
  </xs:annotation>
  <xs:attribute name="UAProf" type="xs:string" use="optional"/>
  <xs:attribute name="TimeStamp" type="tns:relativeOrAbsoluteDateType" use="optional"/>
</xs:complexType>
<xs:complexType name="anyDataType">
  <xs:annotation>
    <xs:documentation>Any element and attribute </xs:documentation>
  </xs:annotation>
  <xs:complexContent>
    <xs:restriction base="xs:anyType">
      <xs:sequence>
        <xs:any processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
      </xs:sequence>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
<xs:simpleType name="statusTextType">
  <xs:annotation>
    <xs:documentation>list of standard human-readable status descriptions</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string"/>
</xs:simpleType>
</xs:schema>

```