



Guide to Schemas for DOMEX

DOMEX Schema Guide

Version 2021-NOV

December 1, 2022

Distribution Notice:

This document has been approved for Public Release and is available for use without restriction.

Table of Contents

Chapter 1 - Introduction	1
1.1 - Purpose	1
Chapter 2 - Schema Files	2
2.1 - CellexReport.xsd	2
2.2 - DOMEX.xsd	25
2.3 - Identity.xsd	75
2.4 - SchemaGuideSchema.xsd	87

Chapter 1 - Introduction

1.1 - Purpose

This is an informative supplement for DOMEX. This guide is generated from the DOMEX Schemas and provides a consolidated reference for the schemas of this specification.

Chapter 2 - Schema Files

2.1 - CellexReport.xsd

```
<xs:schema xmlns:cr="urn:CellexReport"
            xmlns:xs="http://www.w3.org/2001/XMLSchema"
            xmlns:xhtml="http://www.w3.org/1999/xhtml-StopBrowserRendering"
            targetNamespace="urn:CellexReport"
            elementFormDefault="qualified"
            ism:compliesWith="USGov USIC"
            ism:resourceElement="true"
            ism:createDate="2019-09-18"
            ism:DESVersion="202111"
            ism:ISMCAICESVersion="202205"
            ism:classification="U"
            ism:ownerProducer="USA"
            version="202111">
  <xs:import namespace="urn:us:gov:ic:ism" schemaLocation="../ISM/IC-ISM.xsd"/>
  <xs:annotation>
    <xs:documentation> This schema is a modified version of the Coral Reef cellex schema. The
structure of the schema is intact, however for DOMEX purposes, the case of numerous
element names were changed to correspond with the DOMEX capitalization standards. Also,
the "Bluetooth Address" element and e-mail "cc" address structure was added. E-mail "to"
address was changed to allow multiple occurrences. </xs:documentation>
  </xs:annotation>
  <xs:complexType name="BaseReportDataType">
    <xs:all>
      <xs:element name="displayId" type="xs:string"/>
      <!--xs:element name="classification" type="xs:string"/-->

    <xs:element name="uniqueId" type="xs:string"/>
    <xs:element name="batchId" type="xs:string" minOccurs="0"/>
    <xs:element name="harmonyNumber" type="xs:string" minOccurs="0"/>
    <xs:element name="objName" type="xs:string" minOccurs="0"/>
    <xs:element name="circumstance" type="xs:string" minOccurs="0"/>
    <xs:element name="reportDate" type="cr:NormalizedDateTimeType"/>
    <xs:element name="reportSerialNumber" type="xs:string" minOccurs="0"/>
    <xs:element name="isIEDRelated" type="xs:boolean" nillable="true"/>
    <xs:element name="reportCategory" type="cr:ReportCategoryType" minOccurs="0"/>
    <xs:element name="detaineeName"
      type="xs:string"
      nillable="true"
      minOccurs="0"/>
    <xs:element name="detaineeCaptureTag" type="xs:string" minOccurs="0"/>
    <xs:element name="isn" type="xs:string" minOccurs="0"/>
    <xs:element name="batId" type="xs:string" minOccurs="0"/>
    <xs:element name="sigActId" type="xs:string" minOccurs="0"/>
    <xs:element name="acquireDate" type="cr:NormalizedDateTimeType" minOccurs="0"/>
    <xs:element name="acquiringUnit" type="xs:string" minOccurs="0"/>
    <xs:element name="forensicUnits" minOccurs="0">
      <xs:complexType>
        <xs:sequence>
          <xs:element name="forensicUnit"
```

```

        type="xs:string"
        minOccurs="0"
        maxOccurs="unbounded"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="locationOfCapture" type="cr:LocationType" minOccurs="0"/>
  <xs:element name="detaineePhotoName" minOccurs="0">
    <xs:complexType>
      <xs:all>
        <xs:element name="full" type="xs:string" minOccurs="0"/>
        <xs:element name="thumb" type="xs:string" minOccurs="0"/>
      </xs:all>
    </xs:complexType>
  </xs:element>
  <xs:element name="comments" type="xs:string" minOccurs="0"/>
</xs:all>
<xs:attributeGroup ref="ism:SecurityAttributesGroup"/>
</xs:complexType>
<xs:complexType name="UserDefinedTagsType">
  <xs:sequence>
    <xs:element name="userDefinedTag" minOccurs="0" maxOccurs="unbounded">
      <xs:complexType>
        <xs:all>
          <xs:element name="tagName" type="xs:string"/>
          <xs:element name="tagValue" type="xs:string"/>
        </xs:all>
        <xs:attribute name="tagKey" type="xs:string"/>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<!--ReportType used in BaseReport metadata-->

<xs:simpleType name="ReportCategoryType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="CELLEX"/>
    <xs:enumeration value="DOCEX"/>
    <xs:enumeration value="MEDEX"/>
    <xs:enumeration value="Unknown"/>
  </xs:restriction>
</xs:simpleType>
<!--Selector Fields -->

<xs:complexType name="SelectorsType">
  <xs:choice minOccurs="0" maxOccurs="unbounded">
    <xs:element name="selector" type="cr:SelectorType"/>
    <xs:element name="stoppedSelector" type="cr:SelectorType"/>
  </xs:choice>
</xs:complexType>
<xs:complexType name="SelectorType">
  <xs:annotation>
    <xs:documentation> A unique number, email address, or URL which can be attributed back
to an entity. A selector may have an attribute of 'stopped'. </xs:documentation>
  </xs:annotation>

```

```
</xs:annotation>
<xs:all>
  <xs:element name="value" type="xs:string">
    <xs:annotation>
      <xs:documentation> None provided </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="realm" type="cr:SelectorRealmType">
    <xs:annotation>
      <xs:documentation> Refers to the type of selector, i.e. MSISDN (phone number),
IMSI, IMEI, etc. Valid values are: IMEI, IMSI, MSISDN, EMAIL, IPV4, MAC,
URL, MGRS, ESN. </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="isValidated" type="xs:boolean">
    <xs:annotation>
      <xs:documentation> Boolean value indicating if a human has verified the entity
is of the type indicated. </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="identities" minOccurs="0">
    <xs:annotation>
      <xs:documentation> Free text field. </xs:documentation>
    </xs:annotation>
    <xs:complexType>
      <xs:sequence>
        <xs:element name="identity" type="xs:string" maxOccurs="unbounded"/>
      </xs:sequence>
      <xs:attribute name="searchKey" type="xs:string"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="locations">
    <xs:annotation>
      <xs:documentation> Free text field. </xs:documentation>
    </xs:annotation>
    <xs:complexType>
      <xs:sequence>
        <xs:element name="location"
          type="xs:string"
          minOccurs="0"
          maxOccurs="unbounded"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="normTechVersion" type="xs:string" minOccurs="0">
    <xs:annotation>
      <xs:documentation> Normalized selector value </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="rawValues">
    <xs:annotation>
      <xs:documentation> Original selector value extracted from the device.
</xs:documentation>
    </xs:annotation>
  </xs:element>
</xs:all>
```

```
        <xs:complexType>
          <xs:sequence>
            <xs:element name="rawValue"
              type="xs:string"
              minOccurs="0"
              maxOccurs="unbounded"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:all>
    <xs:attribute name="searchKey" type="xs:string"/>
  </xs:complexType>
  <xs:element name="selectorRealm" type="cr:SelectorRealmType"/>
  <xs:simpleType name="SelectorRealmType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="IMEI"/>
      <xs:enumeration value="IMSI"/>
      <xs:enumeration value="MSISDN"/>
      <xs:enumeration value="EMAIL"/>
      <xs:enumeration value="IPV4"/>
      <xs:enumeration value="MAC"/>
      <xs:enumeration value="URL"/>
      <xs:enumeration value="MGRS"/>
      <xs:enumeration value="ESN"/>
    </xs:restriction>
  </xs:simpleType>
  <!--Optional Location data found in the report-->

  <xs:complexType name="GpsLocationsType">
    <xs:sequence>
      <xs:element name="gpsLocation" type="cr:LocationType" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="LocationType">
    <xs:annotation>
      <xs:documentation> The exploited device may be a Global Positioning System (GP) device.
The device may contain multiple stored locations. </xs:documentation>
    </xs:annotation>
    <xs:all>
      <xs:element name="isGPSWayPoint"
        type="xs:boolean"
        default="false"
        minOccurs="0">
        <xs:annotation>
          <xs:documentation> Boolean. </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="wayPointName" type="xs:string" minOccurs="0">
        <xs:annotation>
          <xs:documentation> Name assigned to the GPS Way Point </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="lastSelectedDtg"
        type="cr:NormalizedDateTimeType"
```



```

        minOccurs="0">
          <xs:annotation>
            <xs:documentation> Last Date/Time selected in the GPS device in GMT format.
          </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="rawLatitude" type="xs:string" minOccurs="0">
          <xs:annotation>
            <xs:documentation> Latitude as stored in the GPS device. </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="rawLongitude" type="xs:string" minOccurs="0">
          <xs:annotation>
            <xs:documentation> Longitude as stored in the GPS device. </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="normalizedLatitude" type="xs:double" minOccurs="0">
          <xs:annotation>
            <xs:documentation> Longitude normalized to standard display format
          </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="normalizedLongitude" type="xs:double" minOccurs="0">
          <xs:annotation>
            <xs:documentation> Latitude normalized to standard display format
          </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="rawMGRS" type="xs:string" minOccurs="0">
          <xs:annotation>
            <xs:documentation> Military Grid Reference system geocoordinates as stored on
the device. </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="normalizedMGRS" type="xs:string" minOccurs="0">
          <xs:annotation>
            <xs:documentation> Military Grid Reference System geocoordinates normalized to
standard display format </xs:documentation>
          </xs:annotation>
        </xs:element>
      </xs:all>
    </xs:complexType>
    <!--Calendar Events-->

    <xs:complexType name="CalendarEventsType">
      <xs:sequence>
        <xs:element name="calendarEvent"
          type="cr:CalendarEventType"
          maxOccurs="unbounded"/>
      </xs:sequence>
    </xs:complexType>
    <xs:complexType name="CalendarEventType">
      <xs:all>
        <xs:element name="origTitle" type="xs:string" minOccurs="0">

```

```

        <xs:annotation>
          <xs:documentation> Original title of the calendar event; may be in non-English
form. </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="transTitle" type="xs:string" minOccurs="0">
        <xs:annotation>
          <xs:documentation> Translation of the original event title. </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="origMessText" type="xs:string" minOccurs="0">
        <xs:annotation>
          <xs:documentation> Original text describing the calendar event; may be in
non-English form. </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="transMessText" type="xs:string" minOccurs="0">
        <xs:annotation>
          <xs:documentation> Translation of the original calendar event description text.
</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="eventLocation" type="cr:LocationType" minOccurs="0">
        <xs:annotation>
          <xs:documentation> Location of the calendar event. Locations include GPS
WayPoints, Latitude/Longitude, and Military Grid Reference System (MGRS).
</xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="startDateTime" type="cr:NormalizedDateTimeType" minOccurs="0">
        <xs:annotation>
          <xs:documentation> Starting time of the calendar event </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="endDateTime" type="cr:NormalizedDateTimeType" minOccurs="0">
        <xs:annotation>
          <xs:documentation> Ending time of the calendar event </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="isReoccurring"
        type="xs:boolean"
        default="false"
        minOccurs="0">
        <xs:annotation>
          <xs:documentation> Boolean Value </xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:all>
  </xs:complexType>
<!--URLS-->

<xs:complexType name="UrlHistoryType">
  <xs:sequence>
    <xs:element name="url" type="cr:UrlType" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>

```

```

        </xs:sequence>
    </xs:complexType>
    <xs:complexType name="UrlType">
        <xs:all>
            <xs:element name="ip" type="xs:string" minOccurs="0">
                <xs:annotation>
                    <xs:documentation> Protocol address </xs:documentation>
                </xs:annotation>
            </xs:element>
            <xs:element name="url" type="xs:string" minOccurs="0">
                <xs:annotation>
                    <xs:documentation> Uniform Resource Locator </xs:documentation>
                </xs:annotation>
            </xs:element>
        </xs:all>
    </xs:complexType>
    <!--Files-->

    <xs:complexType name="FileType">
        <xs:sequence>
            <xs:element name="file" type="cr:FileType" maxOccurs="unbounded"/>
        </xs:sequence>
    </xs:complexType>
    <xs:complexType name="FileType">
        <xs:all>
            <xs:element name="fileCategory" type="cr:FileCategoryType" minOccurs="0">
                <xs:annotation>
                    <xs:documentation> The file type category. Categories include: Picture, Video,
Audio, Ringtone, Document, and Unknown </xs:documentation>
                </xs:annotation>
            </xs:element>
            <xs:element name="fileName" type="xs:string" minOccurs="0">
                <xs:annotation>
                    <xs:documentation> Name of the file; may be non-English form.
</xs:documentation>
                </xs:annotation>
            </xs:element>
            <xs:element name="fileFullPath" type="xs:string" minOccurs="0">
                <xs:annotation>
                    <xs:documentation> Full path name of the file as stored on the original media.
</xs:documentation>
                </xs:annotation>
            </xs:element>
            <xs:element name="fileMD5" type="xs:string" minOccurs="0">
                <xs:annotation>
                    <xs:documentation> MD5 hash code value of the file. </xs:documentation>
                </xs:annotation>
            </xs:element>
            <xs:element name="fileSize" type="xs:string" minOccurs="0">
                <xs:annotation>
                    <xs:documentation> Size of the file in bytes. </xs:documentation>
                </xs:annotation>
            </xs:element>
        </xs:all>
    </xs:complexType>

```

```
</xs:complexType>
<!--EMAIL Messages-->

<xs:complexType name="EmailMessagesType">
  <xs:annotation>
    <xs:documentation> Email messages extracted from the cell phone </xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="emailMessage"
      type="cr:EmailMessageType"
      maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="EmailMessageType">
  <xs:all>
    <xs:element name="name" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Subject of the email </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="fromAddress" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation> From email address. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="to" minOccurs="0">
      <xs:annotation>
        <xs:documentation> The To email addressees. </xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:element name="toAddress"
            type="xs:string"
            minOccurs="0"
            maxOccurs="unbounded"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="cc" minOccurs="0">
      <xs:annotation>
        <xs:documentation> "Carbon" Copy addressees. </xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:element name="ccAddress"
            type="xs:string"
            minOccurs="0"
            maxOccurs="unbounded"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="bcc" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Blind Copy addressees. </xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:all>
</xs:complexType>
```

```

        </xs:annotation>
        <xs:complexType>
            <xs:sequence>
                <xs:element name="bccAddress"
                    type="xs:string"
                    minOccurs="0"
                    maxOccurs="unbounded"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="dateTime" type="cr:NormalizedDateTimeType" minOccurs="0">
        <xs:annotation>
            <xs:documentation> Date and time of the message in ZULU format
        </xs:documentation>
    </xs:element>
    <xs:element name="origMessText" type="xs:string" minOccurs="0">
        <xs:annotation>
            <xs:documentation> Original text of the message; may be in non-English form.
        </xs:documentation>
    </xs:element>
    <xs:element name="transMessText" type="xs:string" minOccurs="0">
        <xs:annotation>
            <xs:documentation> Translated text of the email message. </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="emailFolder"
        type="cr:EmailDirType"
        nillable="true"
        minOccurs="0">
        <xs:annotation>
            <xs:documentation> Folder where the email was stored. Values include: Missed,
            Received, Dialed, Fixed, Own, Inbox, Outbox, Draft, Sent, Deleted Sent,
            Deleted Received, Other. </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="memoryLocation"
        type="cr:MemoryLocationType"
        nillable="false"
        minOccurs="0">
        <xs:annotation>
            <xs:documentation> Location on the device where the email was stored. Values
            include: Handset, SIM, and External Memory Card. </xs:documentation>
        </xs:annotation>
    </xs:element>
</xs:all>
</xs:complexType>
<!-- Upload Info -->

<xs:complexType name="UploadInfoType">
    <xs:all>
        <xs:element name="uploadStatus" type="xs:string"/>
        <xs:element name="uploadOwner" type="xs:string"/>
    </xs:all>
</xs:complexType>

```

```

        <xs:element name="uploadDTG" type="xs:dateTime"/>
        <xs:element name="uploadDate" type="xs:date"/>
        <xs:element name="origFileName" type="xs:string"/>
        <xs:element name="uploadOrganizations" minOccurs="0">
            <xs:complexType>
                <xs:sequence>
                    <xs:element name="uploadOrganization"
                        type="xs:string"
                        minOccurs="0"
                        maxOccurs="unbounded"/>
                </xs:sequence>
            </xs:complexType>
        </xs:element>
        <xs:element name="uploadErrorMsg" type="xs:string" minOccurs="0"/>
    </xs:all>
</xs:complexType>
<!-- Alert Info -->

<xs:complexType name="AlertInfoType">
    <xs:sequence>
        <xs:element name="alertLevel" type="xs:string" minOccurs="0"/>
        <xs:element name="targets" type="cr:TargetsType" minOccurs="0"/>
        <xs:element name="alertTypeCount" type="xs:int" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="TargetsType">
    <xs:sequence>
        <xs:element name="target"
            type="cr:TargetType"
            minOccurs="0"
            maxOccurs="unbounded"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="TargetType">
    <xs:sequence>
        <xs:element name="alertTargetId" type="xs:string" minOccurs="0"/>
        <xs:element name="targetLevel" type="xs:integer" minOccurs="0"/>
        <xs:element name="targetType" type="xs:string" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>
<!--Certificate-->

<xs:complexType name="CertificatesType">
    <xs:sequence>
        <xs:element name="certificate" type="cr:CertificateType" maxOccurs="unbounded"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="CertificateType">
    <xs:all>
        <xs:element name="ca" type="xs:string" minOccurs="0"/>
        <xs:element name="dn" type="xs:string" minOccurs="0"/>
        <xs:element name="certSerial" type="xs:string" minOccurs="0"/>
    </xs:all>
</xs:complexType>

```

```
<!--Clocks-->

<xs:complexType name="ClocksType">
  <xs:sequence>
    <xs:element name="clock" type="cr:ClockType" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ClockType">
  <xs:all>
    <xs:element name="location" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation> A free text field. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="setTime" type="cr:NormalizedDateTimeType" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Time to which the clock is set. </xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:all>
</xs:complexType>
<xs:complexType name="NormalizedDateTimeType">
  <xs:attribute name="rawDateTime" type="xs:string" use="required"/>
  <xs:attribute name="normalizedDateTime" type="xs:dateTime" use="optional"/>
  <xs:attribute name="normalizedDate" type="xs:date" use="optional"/>
</xs:complexType>
<!-- change history stuff added 1/20/11 JWB -->

<xs:complexType name="ChangeHistoryType">
  <xs:sequence>
    <xs:element name="changeSet"
      type="cr:ChangeSetType"
      minOccurs="0"
      maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="uniqueId" type="xs:string" use="optional"/>
</xs:complexType>
<xs:complexType name="ChangeSetType">
  <xs:sequence>
    <xs:element name="change"
      type="cr:ChangeType"
      minOccurs="0"
      maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attribute name="userCredential" type="xs:string" use="optional"/>
  <xs:attribute name="changeDtq" type="xs:dateTime" use="required"/>
  <xs:attribute name="changeDocId" type="xs:string" use="optional"/>
</xs:complexType>
<xs:complexType name="ChangeType">
  <xs:attribute name="name" type="xs:string" use="required"/>
  <xs:attribute name="old" type="xs:string" use="required"/>
  <xs:attribute name="new" type="xs:string" use="required"/>
  <xs:attribute name="xpath" type="xs:string" use="required"/>
  <xs:attribute name="userCredential" type="xs:string" use="required"/>
</xs:complexType>
```



```
<xs:attribute name="changeDtg" type="xs:dateTime" use="required"/>
<xs:attribute name="source" type="xs:string" use="required"/>
</xs:complexType>
<!--COMMON ENUMS-->

<xs:simpleType name="FileCategoryType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Picture"/>
    <xs:enumeration value="Video"/>
    <xs:enumeration value="Audio"/>
    <xs:enumeration value="Ringtone"/>
    <xs:enumeration value="Document"/>
    <xs:enumeration value="Unknown"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="EmailDirType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Missed"/>
    <xs:enumeration value="Received"/>
    <xs:enumeration value="Dailed"/>
    <xs:enumeration value="Fixed"/>
    <xs:enumeration value="Own"/>
    <xs:enumeration value="Inbox"/>
    <xs:enumeration value="Outbox"/>
    <xs:enumeration value="Draft"/>
    <xs:enumeration value="Sent"/>
    <xs:enumeration value="DeletedSent"/>
    <xs:enumeration value="DeletedRec"/>
    <xs:enumeration value="Other"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="MemoryLocationType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Handset"/>
    <xs:enumeration value="SIM"/>
    <xs:enumeration value="ExtMemCard"/>
  </xs:restriction>
</xs:simpleType>
<xs:complexType name="ImeiRecord">
  <xs:all>
    <xs:element name="make" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Company that manufactured the device, derived from the TAC.
      </xs:documentation>
    </xs:element>
    <xs:element name="model" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Model of the electronic device </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="tac" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Type Allocation Code. Initial 8-digit portion of the IMEI.
      </xs:documentation>
    </xs:element>
  </xs:all>
</xs:complexType>
```



```

</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="reportingBody" type="xs:string" minOccurs="0">
    <xs:annotation>
      <xs:documentation> First 2 digits of the TAC. Identifies the GSMA-approved group
that allocated the TAC. </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="approvedIn" type="xs:string" minOccurs="0">
    <xs:annotation>
      <xs:documentation> None provided </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="bands" type="xs:string" minOccurs="0">
    <xs:annotation>
      <xs:documentation> None provided </xs:documentation>
    </xs:annotation>
  </xs:element>
</xs:all>
</xs:complexType>
<xs:complexType name="CellexReportDataType">
  <xs:all>
    <xs:element name="kitNumber" type="xs:string" minOccurs="0"/>
    <xs:element name="kitSchemaVersion" type="xs:string" minOccurs="0"/>
    <xs:element name="kitSoftwareVersion" type="xs:string" minOccurs="0"/>
    <xs:element name="owner" type="xs:string" nillable="true" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Owner of the device </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="serviceProvider" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Company that is providing service for the electronic device
</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="isTrigger" type="xs:boolean" nillable="true"/>
    <xs:element name="serviceType" type="cr:ServiceCategoryType" minOccurs="0"/>
    <xs:element name="handsetInfo" type="cr:HandsetDeviceType" minOccurs="0"/>
    <xs:element name="serviceTechnologyInfo"
      type="cr:ServiceTechnologyType"
      minOccurs="0">
      <xs:annotation>
        <xs:documentation> The type of service technology. Valid values are: GSM, CDMA,
Thuraya, Unknown. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="phoneBookEntries"
      type="cr:PhoneBookEntriesType"
      minOccurs="0"/>
    <xs:element name="callLogEntries" type="cr:CallLogEntriesType" minOccurs="0"/>
    <xs:element name="smsMessages" type="cr:SmsMessagesType" minOccurs="0"/>
    <xs:element name="mmsMessages" type="cr:MmsMessagesType" minOccurs="0"/>
  </xs:all>
</xs:complexType>

```

```

        <xs:element name="calendarEvents" type="cr:CalendarEventsType" minOccurs="0"/>
    </xs:all>
</xs:complexType>
<!--CELLEX HandSet Fields-->

<xs:complexType name="HandsetDeviceType">
    <xs:all>
        <xs:element name="handsetMake" type="xs:string" minOccurs="0">
            <xs:annotation>
                <xs:documentation> Company that manufactured handset. </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="handsetModel" type="xs:string" minOccurs="0">
            <xs:annotation>
                <xs:documentation> Model number of handset </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="imei" type="xs:string" minOccurs="0">
            <xs:annotation>
                <xs:documentation> International Mobile Equipment Identity or IMEI is a number
                (decimal), usually unique to identify GSM, WCDMA, and iDEN mobile phones, as
                well as some satellite phones. It is usually found printed inside the
                battery compartment of the phone. It can also be displayed on the screen of
                the phone by entering *#06# into the keypad on most phones.
            </xs:documentation>
        </xs:annotation>
        </xs:element>
        <xs:element name="hardwareVersion" type="xs:string" minOccurs="0">
            <xs:annotation>
                <xs:documentation> Refers to the version of the hardware of a handset or a
                CELLEX kit. </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="softwareVersion" type="xs:string" minOccurs="0">
            <xs:annotation>
                <xs:documentation> Refers to the software version of a handset.
            </xs:documentation>
        </xs:annotation>
        </xs:element>
        <xs:element name="timeSetTo" type="cr:NormalizedDateTimeType" minOccurs="0">
            <xs:annotation>
                <xs:documentation> Refers to the time that the handset was set once the phone
                was exploited. Most of the time it will be the same as Actual Time, but
                there have been cases where phones were not in sync with the real time.
            </xs:documentation>
        </xs:annotation>
        </xs:element>
        <xs:element name="actualTime" type="cr:NormalizedDateTimeType" minOccurs="0">
            <xs:annotation>
                <xs:documentation> The actual time when the handset is exploited by a CELLEX
                kit. </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="memoryCards" minOccurs="0">

```

```

        <xs:complexType>
          <xs:sequence>
            <xs:element name="memoryCard" type="xs:string" maxOccurs="unbounded">
              <xs:annotation>
                <xs:documentation> Refers to whether a phone has a memory card
within it during capture. Typical memory cards are SD cards.
              </xs:documentation>
            </xs:element>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
      <xs:element name="greetingMessage" type="xs:string" minOccurs="0">
        <xs:annotation>
          <xs:documentation> Refers to a possible message on a handset, which is displayed
once the handset is turned on. </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="keypadLockCode" type="xs:string" minOccurs="0">
        <xs:annotation>
          <xs:documentation> The code to unlock a locked phone. Typically a 4 digit
number. </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="bluetoothID" type="xs:string" minOccurs="0">
        <xs:annotation>
          <xs:documentation> The unique 48-bit address of the Bluetooth device.
        </xs:documentation>
      </xs:element>
    </xs:all>
  </xs:complexType>
  <!--CELLEX SIM Cards-->

  <xs:complexType name="ServiceTechnologyType">
    <xs:all>
      <xs:element name="MSISDN" type="xs:string" minOccurs="0">
        <xs:annotation>
          <xs:documentation> A number uniquely identifying a subscription in a Global
System for Mobile Communications (GSM) or a Universal Mobile
Telecommunications System (UMTS) mobile network. The abbreviation has
several interpretations, the most common one being Mobile Subscriber
Integrated Services Digital Network Number </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="IMSI" type="xs:string" minOccurs="0">
        <xs:annotation>
          <xs:documentation> An International Mobile Subscriber Identity or IMSI is a
unique identification associated with all GSM and UMTS network mobile phone
users. It is stored as a 64-bit field in the SIM inside the phone and is
sent by the phone to the network. It is also used for acquiring other
details of the mobile in the Home Location Register (HLR) or as locally
copied in the Visitor Location Register. To prevent eavesdroppers
identifying and tracking the subscriber on the radio interface, the IMSI is
```

```

    sent as rarely as possible and a randomly-generated TMSI is sent instead.
</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="TMSI" type="xs:string" minOccurs="0">
    <xs:annotation>
      <xs:documentation> The "Temporary Mobile Subscriber Identity" (TMSI) is the
identity that is most commonly sent between the mobile and the network. TMSI
is randomly assigned by the VLR to every mobile in the area, the moment it
is switched on. The number is local to a location area, and so it has to be
updated each time the mobile moves to a new geographical area.
    </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="MMC" type="xs:string" minOccurs="0">
    <xs:annotation>
      <xs:documentation> Multi Media Card </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="MNC" type="xs:string" minOccurs="0">
    <xs:annotation>
      <xs:documentation> Is used in combination with a Mobile Country Code (MCC) (also
known as a "MCC / MNC tuple") to uniquely identify a mobile phone
operator/carrier using the GSM/LTE, CDMA, iDEN, TETRA and UMTS public land
mobile networks and some satellite mobile networks. The ITU-T Recommendation
E.212 defines mobile country codes. </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="LAC" type="xs:string" minOccurs="0">
    <xs:annotation>
      <xs:documentation> Location Area Code </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="ICCID" type="xs:string" minOccurs="0">
    <xs:annotation>
      <xs:documentation> Integrated circuit card identifier (ICCID). Each SIM is
internationally identified by its ICCID. ICCIDs are stored in the SIM cards
and are also engraved or printed on the SIM card body during a process
called personalization. The ICCID is defined by the ITU-T recommendation
E.118. According to E.118 the number is up to 19 digits long including a
single check digit calculated using the Luhn algorithm. However, the GSM
Phase 1 defined the ICC-ID length as 10 octets with operator-specific
structure. </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="SimCardType" type="xs:string" minOccurs="0">
    <xs:annotation>
      <xs:documentation> A subscriber identity module (SIM) on a removable SIM card
securely stores the service subscriber key (IMSI) used to identify a
subscriber on mobile telephone devices (such as mobile phones and
computers). The SIM card allows users to change phones by simply removing
the SIM card from one mobile phone and inserting it into another mobile
phone or broadband telephony device. </xs:documentation>
    </xs:annotation>
  </xs:element>

```

```

        </xs:element>
        <xs:element name="ESN" type="xs:string" minOccurs="0">
          <xs:annotation>
            <xs:documentation> An electronic serial number (ESN) is the unique
            identification number embedded or inscribed on the microchip in a wireless
            phone by the manufacturer. Each time a call is placed, the ESN is
            automatically transmitted to the base station so the wireless carrier's
            mobile switching office check the call's validity. the ESN cannot easily be
            altered in the field. The ESN differs from the mobile identification number
            (MIN) which is the wireless carrier's identifier for a phone in the network.
            MINs and ESNs can be electronically checked to help prevent fraud. ESNs are
            mainly used with AMPS, TDMA and CDMA phones in the United States, compared
            to International Mobile Equipment Identity (IMEI) numbers used by all GSM
            phones. </xs:documentation>
          </xs:annotation>
        </xs:element>
      </xs:all>
    </xs:complexType>
    <!--CELLEX Phone Book Messages-->

    <xs:complexType name="PhoneBookEntriesType">
      <xs:annotation>
        <xs:documentation> The device's phone book may contain multiple entries. Each entry will
        optionally contain: index, name, number, original name, memory location, and
        designation. </xs:documentation>
      </xs:annotation>
      <xs:sequence>
        <xs:element name="phoneBookEntry"
          type="cr:PhoneBookEntryType"
          maxOccurs="unbounded"/>
      </xs:sequence>
    </xs:complexType>
    <xs:complexType name="PhoneBookEntryType">
      <xs:all>
        <xs:element name="index" type="xs:string" minOccurs="0">
          <xs:annotation>
            <xs:documentation> Number associated with the phone book entry name.
          </xs:documentation>
        </xs:annotation>
        </xs:element>
        <xs:element name="name" type="xs:string" minOccurs="0">
          <xs:annotation>
            <xs:documentation> Translated Name of the phone book entry. </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="number" type="xs:string" minOccurs="0">
          <xs:annotation>
            <xs:documentation> Number of the associated with the phone book entry name.
          </xs:documentation>
        </xs:annotation>
        </xs:element>
        <xs:element name="origName" type="xs:string" minOccurs="0">
          <xs:annotation>
            <xs:documentation> Original name of the phone book entry; can be in non-English

```

```

    form. </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="memoryLocation" type="cr:MemoryLocationType" minOccurs="0">
        <xs:annotation>
            <xs:documentation> Memory or SIM. </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="designation" type="xs:string" minOccurs="0">
        <xs:annotation>
            <xs:documentation> None provided </xs:documentation>
        </xs:annotation>
    </xs:element>
</xs:all>
</xs:complexType>
<!--CELLEX Call Log Messages-->

<xs:complexType name="CallLogEntriesType">
    <xs:sequence>
        <xs:element name="callLogEntry"
            type="cr:CallLogEntryType"
            maxOccurs="unbounded"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="CallLogEntryType">
    <xs:all>
        <xs:element name="index" type="xs:string" minOccurs="0">
            <xs:annotation>
                <xs:documentation> Index Number associated with the call log entry.
            </xs:annotation>
        </xs:element>
        <xs:element name="name" type="xs:string" minOccurs="0">
            <xs:annotation>
                <xs:documentation> Translated Name of the call log entry. </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="number" type="xs:string" minOccurs="0">
            <xs:annotation>
                <xs:documentation> Called number. </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="origName" type="xs:string" minOccurs="0">
            <xs:annotation>
                <xs:documentation> Original name of the phone book entry; can be in non-English
            form. </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="dateTime" type="cr:NormalizedDateTimeType" minOccurs="0">
            <xs:annotation>
                <xs:documentation> Date and Time of the call, normalized to GMT.
            </xs:annotation>
        </xs:element>
    </xs:all>
</xs:complexType>

```

```

    <xs:element name="callLogLoc" type="cr:LogType" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Handset, SIM, or External Memory Card. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="memoryLocation" type="cr:MemoryLocationType" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Handset, SIM, or External Memory Card. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="duration" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Duration of the call. </xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:all>
</xs:complexType>
<!--CELLEX SMS-->

<xs:complexType name="SmsMessagesType">
  <xs:sequence>
    <xs:element name="smsMessage" type="cr:SmsMessageType" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="SmsMessageType">
  <xs:all>
    <xs:element name="name" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Name of the message sender. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="number" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Telephone number to which the SMS message was sent or
received from. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="dateTime"
      type="cr:NormalizedDateTimeType"
      nillable="true"
      minOccurs="0">
      <xs:annotation>
        <xs:documentation> Date and Time of the SMS message. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="origMessText" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Original text of the SMS message. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="transMessText" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation> English language translation of the SMS message.
</xs:documentation>

```



```

        </xs:annotation>
      </xs:element>
      <xs:element name="status" type="xs:string" minOccurs="0">
        <xs:annotation>
          <xs:documentation> Status of the received message: Read/Unread
        </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="smsDirection"
        type="cr:LogType"
        nillable="true"
        minOccurs="0">
        <xs:annotation>
          <xs:documentation> Direction of the message. Acceptable values: Missed,
Received, Dialed, Fixed, Own, Inbox, Outbox, Draft, Sent, DeletedSent,
DeletedReceived, Other. </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="memoryLocation"
        type="cr:MemoryLocationType"
        nillable="true"
        minOccurs="0">
        <xs:annotation>
          <xs:documentation> Handset, SIM, or External Memory Card. </xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:all>
  </xs:complexType>
  <!--CELLEX MMS-->

<xs:complexType name="MmsMessagesType">
  <xs:annotation>
    <xs:documentation> A Multi-Media Messaging Service message that includes multimedia
content sent between mobile phones. </xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="mmsMessage" type="cr:MmsMessageType" maxOccurs="unbounded"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="MmsMessageType">
  <xs:all>
    <xs:element name="name" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Name of the message sender. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="number" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Number of the message sender. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="dateTime" type="cr:NormalizedDateTimeType" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Date and time of the message. </xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:all>
</xs:complexType>

```



```

        </xs:annotation>
      </xs:element>
      <xs:element name="origMessText" type="xs:string" minOccurs="0">
        <xs:annotation>
          <xs:documentation> Original text of the message; can be in non-English form.
        </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="transMessText" type="xs:string" minOccurs="0">
        <xs:annotation>
          <xs:documentation> Translation of the original message text. </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="mmsDirection" type="cr:LogType" minOccurs="0">
        <xs:annotation>
          <xs:documentation> Direction of the message. Acceptable values: Missed,
Received, Dialed, Fixed, Own, Inbox, Outbox, Draft, Sent, DeletedSent,
DeletedReceived, Other. </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="fileName" type="xs:string" minOccurs="0">
        <xs:annotation>
          <xs:documentation> File name of the multimedia content. </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="fileMD5" type="xs:string" minOccurs="0">
        <xs:annotation>
          <xs:documentation> MD5 Hash Code Value of the message </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="status" type="xs:string" minOccurs="0">
        <xs:annotation>
          <xs:documentation> Status of the received message: Read/Unread
        </xs:documentation>
      </xs:element>
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="memoryLocation"
  type="cr:MemoryLocationType"
  nillable="true"
  minOccurs="0">
  <xs:annotation>
    <xs:documentation> Handset, SIM, or External Memory Card. </xs:documentation>
  </xs:annotation>
</xs:element>
</xs:all>
</xs:complexType>
<!--CELLEX ENUMS-->

<xs:simpleType name="ServiceCategoryType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="GSM"/>
    <xs:enumeration value="CDMA"/>
    <xs:enumeration value="THURAYA"/>
    <xs:enumeration value="Unknown"/>
  </xs:restriction>
</xs:simpleType>

```

```

        </xs:restriction>
    </xs:simpleType>
    <xs:simpleType name="LogType">
        <xs:restriction base="xs:string">
            <xs:enumeration value="Missed"/>
            <xs:enumeration value="Received"/>
            <xs:enumeration value="Dialed"/>
            <xs:enumeration value="Fixed"/>
            <xs:enumeration value="Own"/>
            <xs:enumeration value="Inbox"/>
            <xs:enumeration value="Outbox"/>
            <xs:enumeration value="Draft"/>
            <xs:enumeration value="Sent"/>
            <xs:enumeration value="DeletedSent"/>
            <xs:enumeration value="DeletedRec"/>
            <xs:enumeration value="Other"/>
        </xs:restriction>
    </xs:simpleType>
    <!-- ***** -->

<!-- Attribute - DESVersion -->

<!-- ***** -->

<xs:attribute name="DESVersion">
    <xs:annotation>
        <xs:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U">The version number of
the specification. This attribute is intended for processing systems to
determine the appropriate versions of Schema, Schematron, and CVE values for
validation and interpretation of an instance document. </xhtml:p>
            <xhtml:p ism:ownerProducer="USA" ism:classification="U">If there are multiple of
this attribute specified in an instance document, the first one in document
order is the one that will apply to the entire document. Document order is
defined in <xhtml:a href="https://www.w3.org/TR/xpath-datamodel/#document-order">https://www.w3.org/TR/xpath-datamodel/#document-order</xhtml:a>
            </xhtml:p>
        </xs:documentation>
    </xs:annotation>
    <xs:simpleType>
        <xs:restriction base="xs:string">
            <xs:pattern value="[0-9]{6}(\.[0-9]{6})?(\-{1,23})?" />
        </xs:restriction>
    </xs:simpleType>
</xs:attribute>
<xs:complexType name="CellexReportType">
    <xs:all>
        <xs:element name="version" type="xs:string" minOccurs="0"/>
        <xs:element name="baseReportData" type="cr:BaseReportDataType"/>
        <xs:element name="cellexReportData"
            type="cr:CellexReportDataType"
            minOccurs="0"/>
        <xs:element name="urlHistory" type="cr:UrlHistoryType" minOccurs="0"/>
        <xs:element name="files" type="cr:FileType" minOccurs="0"/>
        <xs:element name="emailMessages" type="cr:EmailMessagesType" minOccurs="0"/>
    </xs:all>
</xs:complexType>

```

```

        <xs:element name="selectors" type="cr:SelectorsType" minOccurs="0"/>
        <xs:element name="gpsLocations" type="cr:GpsLocationsType" minOccurs="0"/>
        <xs:element name="clocks" type="cr:ClocksType" minOccurs="0"/>
        <!-- artf14835 - Make uploadInfo optional -->

        <xs:element name="uploadInfo" type="cr:UploadInfoType" minOccurs="0"/>
        <xs:element name="alertInfo" type="cr:AlertInfoType" minOccurs="0"/>
        <xs:element name="userDefinedTags" type="cr:UserDefinedTagsType" minOccurs="0"/>
        <xs:element name="changeHistory" type="cr:ChangeHistoryType" minOccurs="0"/>
    </xs:all>
    <xs:attribute ref="cr:DESVersion" use="optional"/>
</xs:complexType>

<xs:element name="cellexReport" type="cr:CellexReportType"/>

</xs:schema>
```

2.2 - DOMEX.xsd

```
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns="urn:us:mil:ces:metadata:domex"
    xmlns:domex="urn:us:mil:ces:metadata:domex"
    xmlns:tspi-core="http://metadata.ces.mil/mdr/ns/GSIP/tspi/2.0/core"
    xmlns:irm="urn:us:gov:ic:irm"
    xmlns:Identity="urn:us:mil:ces:metadata:domex_identity"
    xmlns:xhtml="http://www.w3.org/1999/xhtml-StopBrowserRendering"
    xmlns:cr="urn:CellexReport"
    xmlns:CVEEnumDOMEXActivityType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXActivityType"
    xmlns:CVEEnumDOMEXCollectingUnitIDTypeType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXCollectingUnitIDTypeType"
    xmlns:CVEEnumDOMEXDispositionType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXDispositionType"
    xmlns:CVEEnumDOMEXDocumentType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXDocumentType"
    xmlns:CVEEnumDOMEXEntityMethodOfExtractionType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXEntityMethodOfExtractionType"
    xmlns:CVEEnumDOMEXEventTypeType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXEventTypeType"
    xmlns:CVEEnumDOMEXFinancialAccountTypeType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXFinancialAccountTypeType"
    xmlns:CVEEnumDOMEXFinancialTransactionTypeType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXFinancialTransactionTypeType"
    xmlns:CVEEnumDOMEXFileType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXFileType"
    xmlns:CVEEnumDOMEXFisaType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXFisaType"
    xmlns:CVEEnumDOMEXFlightTypeType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXFlightTypeType"
    xmlns:CVEEnumDOMEXHashDigestTypeType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXHashDigestTypeType"
    xmlns:CVEEnumDOMEXImageSizeTypeType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXImageSizeTypeType"
    xmlns:CVEEnumDOMEXLegalTitleType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXLegalTitleType"
    xmlns:CVEEnumDOMEXMediaType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXMediaType"
    xmlns:CVEEnumDOMEXMicroCollectionLocationDescriptorTypeType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXMicroCollectionLocationDescriptorTypeType"
    xmlns:CVEEnumDOMEXNumberOfFilesTypeType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXNumberOfFilesTypeType"
    xmlns:CVEEnumDOMEXOrganizationNameTypeType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXOrganizationNameTypeType"
    xmlns:CVEEnumDOMEXOrganizationTypeType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXOrganizationTypeType"
    xmlns:CVEEnumDOMEXRelationshipNatureType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXRelationshipNatureType"
    xmlns:CVEEnumDOMEXRelationshipTypeType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXRelationshipTypeType"
    xmlns:CVEEnumDOMEXTitleTypeType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXTitleTypeType"
    xmlns:CVEEnumDOMEXTranslationPriorityType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXTranslationPriorityType"
    xmlns:CVEEnumDOMEXTranslationStatusType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXTranslationStatusType"
    xmlns:CVEEnumDOMEXTranslationType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXTranslationType"
    xmlns:CVEEnumDOMEXTravelTypeType="urn:us:gov:ic:cenum:domex:CVEEnumDOMEXTravelTypeType"
    xmlns:CVEEnumUSAgencyAcronym="urn:us:gov:ic:cenum:usagency:agencyacronym"
    xmlns:CVEEnumIRMISO639-3Trigraph="urn:us:gov:ic:cenum:irm:iso639-3:trigraph"
    xmlns:CVEEnumMIMEType="urn:us:gov:ic:cenum:mime:type"
    targetNamespace="urn:us:mil:ces:metadata:domex"
    elementFormDefault="qualified"
    attributeFormDefault="qualified"
    ism:compliesWith="USGov USIC"
    ism:resourceElement="true"
    ism:createDate="2019-09-18"
    ism:DESVersion="202111"
    ism:ISMCA TCESVersion="202205"
    ism:classification="U"
    ism:ownerProducer="USA"
    version="202111">
    <xs:annotation>
        <xs:documentation>
            <xhtml:h1 ism:ownerProducer="USA" ism:classification="U">Intelligence Community
Technical Specification XML Data Encoding Specification for DOcument and Media
```

```
EXploitation (DOMEX.XML) SchemaGuide</xhtml:h1>
  </xs:documentation>
  <xs:documentation>
    <xhtml:h2 ism:ownerProducer="USA" ism:classification="U">Notices</xhtml:h2>
    <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Distribution Notice:
This document has been approved for Public Release and is available for use without restriction.

  </xhtml:p>
  </xs:documentation>
  <xs:documentation>
    <xhtml:h2 ism:ownerProducer="USA" ism:classification="U">Description</xhtml:h2>
    <xhtml:p ism:ownerProducer="USA" ism:classification="U"> This W3C XML Schema is an
implementation of the DOMEX assertion.</xhtml:p>
  </xs:documentation>
  <xs:documentation>
    <xhtml:h2 ism:ownerProducer="USA" ism:classification="U">Introduction</xhtml:h2>
    <xhtml:p ism:ownerProducer="USA" ism:classification="U"> This XML Schema file is only
used to produce the schemaGuide for the XML Data Encoding Specification (DES).
Please see the document titled <xhtml:i>
      <xhtml:a href="../../Documents/DOMEX/DesDomexXml.pdf">XML Data Encoding
Specification for DOcument and Media EXploitation</xhtml:a>
    </xhtml:i> for a complete description of the encoding as well as list of all
components. </xhtml:p>
    <xhtml:p ism:ownerProducer="USA" ism:classification="U"> It is envisioned that this
schema or its components, as well as other parts of the DES may be overridden for
localized implementations. Therefore, permission to use, copy, modify and distribute
this XML Schema and the other parts of the DES for any purpose is hereby granted in
perpetuity. </xhtml:p>
    <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Please reference the preceding
two paragraphs in all copies or variations. The developers make no representation
about the suitability of the schema or DES for any purpose. It is provided "as is"
without expressed or implied warranty. </xhtml:p>
    <xhtml:p ism:ownerProducer="USA" ism:classification="U"> If you modify this XML Schema
in any way label your schema as a variant of DOMEX.XML. </xhtml:p>
    <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Please direct all questions,
bug reports,or suggestions for changes to the points of contact identified in the
document referenced above. </xhtml:p>
  </xs:documentation>
  <xs:documentation>
    <xhtml:h2 ism:ownerProducer="USA" ism:classification="U">Implementation Notes</xhtml:h2>
    <xhtml:p ism:ownerProducer="USA" ism:classification="U">The document element for a
DOMEX.XML document is <xhtml:a href="DOMEX_xsd_Element_acquisition.html#acquisition">domex:acquisition</xhtml:a>. A DOMEX.XML instance is an instance of a TDO with
particular payload and assertions. Its structure is similar to:</xhtml:p>
    <xhtml:ul>
      <xhtml:p ism:ownerProducer="USA" ism:classification="U">A <xhtml:a href="IC-TDF_xsd_Element_TrustedDataObject.html#TrustedDataObject">
tdf:TrustedDataObject</xhtml:a>
      </xhtml:p>
      <xhtml:ul>
        <xhtml:li ism:ownerProducer="USA" ism:classification="U">has an assertion
<xhtml:a href="DOMEX_xsd_Element_acquisition.html#acquisition">domex:acquisition</xhtml:a>
        </xhtml:li>
        <xhtml:li ism:ownerProducer="USA" ism:classification="U">has an assertion
<xhtml:a href="IC-IRM_xsd_Element_irm_ICResourceMetadataPackage.html#ICResourceMetadataPackage"> irm:ICResourceMetadataPackage</xhtml:a>
        </xhtml:li>
```

```

        </xhtml:ul>
    </xhtml:ul>
    <xhtml:p ism:ownerProducer="USA" ism:classification="U">The document elements for DOMEX
are <xhtml:a href="DOMEX_xsd_Element_domex.html#domex">domex:domex</xhtml:a>,
<xhtml:a href="Identity_xsd_Element_identity.html#identity">Identity:identity</xhtml:a>, and
<xhtml:a href="CellexReport_xsd_Element_cr_cellexReport.html#cellexReport">cr:cellexReport</xhtml:a>.
</xhtml:p>
    </xs:documentation>
</xs:documentation>
    <xhtml:h2 ism:ownerProducer="USA" ism:classification="U">Creators</xhtml:h2>
    <xhtml:p ism:ownerProducer="USA" ism:classification="U">Office of the Director of
National Intelligence Intelligence Community Chief Information Officer</xhtml:p>
    </xs:documentation>
</xs:annotation>
<!-- ***** -->

<!-- IMPORT DEPENDENT SCHEMAS -->

<!-- ***** -->

<xs:import namespace="urn:us:gov:ic:ism" schemaLocation="../ISM/IC-ISM.xsd"/>
<xs:import namespace="urn:us:gov:ic:irm" schemaLocation="../IRM/IC-IRM.xsd"/>
<xs:import namespace="http://metadata.ces.mil/mdr/ns/GSIP/tspi/2.0/core"
    schemaLocation="../tspi/2.0.0/tspi-core.xsd"/>
<xs:import namespace="urn:CellexReport" schemaLocation="../CellexReport.xsd"/>
<xs:import namespace="urn:us:mil:ces:metadata:domex_identity"
    schemaLocation="../Identity.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:usagency:agencyacronym"
    schemaLocation="../USAgency/CVEGenerated/CVEnumUSAgencyAcronym.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:irm:iso639-3:trigraph"
    schemaLocation="../IRM/CVEGenerated/CVEnumIRMISO639-3Trigraph.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:mime:type"
    schemaLocation="../MIME/CVEGenerated/CVEnumMIMETYPE.xsd"/>
<!-- ***** -->

<!-- IMPORT DOMEX CVE-Generated schema types -->

<!-- ***** -->

<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXActivityType"
    schemaLocation="../CVEGenerated/CVEnumDOMEXActivityType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXCollectingUnitIDTypeType"
    schemaLocation="../CVEGenerated/CVEnumDOMEXCollectingUnitIDTypeType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXDispositionType"
    schemaLocation="../CVEGenerated/CVEnumDOMEXDispositionType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXDocumentType"
    schemaLocation="../CVEGenerated/CVEnumDOMEXDocumentType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXEntityMethodOfExtractionType"
    schemaLocation="../CVEGenerated/CVEnumDOMEXEntityMethodOfExtractionType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXEventTypeType"
    schemaLocation="../CVEGenerated/CVEnumDOMEXEventTypeType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXFinancialAccountTypeType"
    schemaLocation="../CVEGenerated/CVEnumDOMEXFinancialAccountTypeType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXFinancialTransactionTypeType"
    schemaLocation="../CVEGenerated/CVEnumDOMEXFinancialTransactionTypeType.xsd"/>

```



```

        schemaLocation="./CVEGenerated/CVEnumDOMEXFinancialTransactionTypeType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXFileType"
        schemaLocation="./CVEGenerated/CVEnumDOMEXFileType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXFisaType"
        schemaLocation="./CVEGenerated/CVEnumDOMEXFisaType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXFlightTypeType"
        schemaLocation="./CVEGenerated/CVEnumDOMEXFlightTypeType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXHashDigestTypeType"
        schemaLocation="./CVEGenerated/CVEnumDOMEXHashDigestTypeType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXImageSizeTypeType"
        schemaLocation="./CVEGenerated/CVEnumDOMEXImageSizeTypeType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXLegalTitleType"
        schemaLocation="./CVEGenerated/CVEnumDOMEXLegalTitleType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXMediaType"
        schemaLocation="./CVEGenerated/CVEnumDOMEXMediaType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXMicroCollectionLocationDescriptorTypeType"
        schemaLocation="./CVEGenerated/CVEnumDOMEXMicroCollectionLocationDescriptorTypeType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXNumberOfFilesTypeType"
        schemaLocation="./CVEGenerated/CVEnumDOMEXNumberOfFilesTypeType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXOrganizationNameTypeType"
        schemaLocation="./CVEGenerated/CVEnumDOMEXOrganizationNameTypeType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXOrganizationTypeType"
        schemaLocation="./CVEGenerated/CVEnumDOMEXOrganizationTypeType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXRelationshipNatureType"
        schemaLocation="./CVEGenerated/CVEnumDOMEXRelationshipNatureType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXRelationshipTypeType"
        schemaLocation="./CVEGenerated/CVEnumDOMEXRelationshipTypeType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXTitleTypeType"
        schemaLocation="./CVEGenerated/CVEnumDOMEXTitleTypeType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXTranslationPriorityType"
        schemaLocation="./CVEGenerated/CVEnumDOMEXTranslationPriorityType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXTranslationStatusType"
        schemaLocation="./CVEGenerated/CVEnumDOMEXTranslationStatusType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXTranslationType"
        schemaLocation="./CVEGenerated/CVEnumDOMEXTranslationType.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEnumDOMEXTravelTypeType"
        schemaLocation="./CVEGenerated/CVEnumDOMEXTravelTypeType.xsd"/>
<!-- ***** -->

<!-- DOMEX Root for TDO assertion -->

<!-- ***** -->

<xs:element name="domex">
    <xs:annotation>
        <xs:documentation> The domex element is provided as a root element for including a DOMEX
assertion in a TDO. For most circumstances, the domex element will contain one or
more "acquisition" elements that describe a complete domex metadata set or record.
DOMEX sub-elements can be exchanged separate from an acquisition using one of the
alternate roots. </xs:documentation>
    </xs:annotation>
    <xs:complexType>
        <xs:sequence>
            <xs:choice>
```

```

        <xs:element ref="acquisition" maxOccurs="unbounded"/>
        <xs:element ref="collectionDetails" maxOccurs="unbounded"/>
        <xs:element ref="subjectInformation" maxOccurs="unbounded"/>
        <xs:element ref="cr:cellexReport" maxOccurs="unbounded"/>
        <xs:element ref="Identity:identity" maxOccurs="unbounded"/>
        <xs:element ref="facility" maxOccurs="unbounded"/>
        <xs:element ref="organization" maxOccurs="unbounded"/>
        <xs:element ref="equipment" maxOccurs="unbounded"/>
        <xs:element ref="mediaDetails" maxOccurs="unbounded"/>
        <xs:element ref="file" maxOccurs="unbounded"/>
    </xs:choice>
</xs:sequence>
    <xs:attribute ref="DESVersion" use="required"/>
</xs:complexType>
</xs:element>
<!-- ***** -->

<!-- Alternate Acquisition root -->

<!-- ***** -->

<xs:element name="acquisition" ism:classification="U" ism:ownerProducer="USA">
    <xs:annotation>
        <xs:documentation> Acquisition Data. Data about a collection or single piece of media
within a collection that generally answers core issues related to the standards of
who, what, when, where, why, and how the material was collected. Examples of
acquisition data are date/time collected, location of collection, collecting
organization, legal authority for the collection, processing site, size and type of
media, classification, and more. This is the root element for a collection.
    </xs:documentation>
    </xs:annotation>
    <xs:complexType>
        <xs:sequence>
            <xs:element ref="collectionDetails"/>
            <xs:element ref="subjectInformation" minOccurs="0" maxOccurs="unbounded"/>
            <xs:element ref="mediaDetails" maxOccurs="unbounded"/>
            <xs:element ref="cr:cellexReport" minOccurs="0" maxOccurs="unbounded"/>
        </xs:sequence>
        <xs:attribute name="uuid" type="UuidType" use="optional"/>
        <xs:attribute ref="DESVersion" use="optional"/>
    </xs:complexType>
</xs:element>
<!-- ***** -->

<!-- Collection Details -->

<!-- ***** -->

<xs:element name="collectionDetails">
    <xs:annotation>
        <xs:documentation> (Batch). Documents and/or electronic media acquired during the same
capture, seizure, or acquisition event at the same location or attributed to the
same individual (s) or group. </xs:documentation>
    </xs:annotation>
```



```
<xs:complexType>
  <xs:sequence>
    <xs:element name="providingOrganization" type="string100">
      <xs:annotation>
        <xs:documentation> Name of the organization that acquired the media.
      </xs:documentation>
    </xs:element>
    <xs:element name="owningOrganization" type="string100">
      <xs:annotation>
        <xs:documentation> Name of the organization that owns the media.
        Organization or agency that acquires, obtains, collects, and/or provides
        media to national repositories or is later determined to be authorized
        to release and/or declassify media. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="collectionName" type="string200">
      <xs:annotation>
        <xs:documentation> The cover term(s) associated with the media seizure,
        exploitation, and collaboration. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="batchName" type="string200" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Name of the Batch as defined by the collecting
        organization. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <!-- irm:acquiredOn xs:element name="dateAcquired" type="irm:CombinedDateType" minOccurs="0">
  </xs:sequence>
  <xs:annotation>
    <xs:documentation>
      The Date-Time-Group (DTG) a collection started.
    </xs:documentation>
  </xs:annotation>
</xs:complexType>

  <!-- irm:geospatialCoverage xs:element name="collectionLocationCoordinates" type="tspi-core:PointType" minOccurs="0">
  <xs:annotation>
    <xs:documentation>
      Coordinates of location of collection
    </xs:documentation>
  </xs:annotation>
</xs:element-->

  <xs:element name="collectionCountry"
    type="irm:CompoundCountryCodeIdentifierType"
    minOccurs="0">
    <xs:annotation>
      <xs:documentation> The country from which the collection was acquired.
    </xs:documentation>
  </xs:element>
  <!-- irm:description xs:element name="collectionDescription" type="string4000" minOccurs="0">
</xs:annotation>
```

```

    <xs:documentation>
      A full description for the collection.
    </xs:documentation>
  </xs:annotation>
</xs:element-->

  <xs:element name="isDraft" type="xs:boolean" minOccurs="0">
    <xs:annotation>
      <xs:documentation> The collection is a partial submission.
    </xs:documentation>
  </xs:element>
  <xs:element name="containsObjectionalMaterial" type="xs:boolean" minOccurs="0">
    <xs:annotation>
      <xs:documentation> The collection contains objectionable material.
    </xs:documentation>
  </xs:element>
  <xs:element name="containsSuspectedCPData" type="xs:boolean" minOccurs="0">
    <xs:annotation>
      <xs:documentation> The collection contains suspected CP data.
    </xs:documentation>
  </xs:element>
  <xs:element name="containsUSPersonsData" type="xs:boolean" minOccurs="0">
    <xs:annotation>
      <xs:documentation> The collections contains data related to US persons
    </xs:documentation>
  </xs:element>
  <xs:element name="isRestricted" type="xs:boolean" minOccurs="0">
    <xs:annotation>
      <xs:documentation> The collection is restricted to those organizations
      identified by the data owner sharing restrictions. </xs:documentation>
    </xs:documentation>
  </xs:element>
  <xs:element name="acquisitionDetails" type="string4000">
    <xs:annotation>
      <xs:documentation> Details of how the collection was acquired.
    </xs:documentation>
  </xs:element>
  <xs:element name="numberOfComponents" type="xs:positiveInteger">
    <xs:annotation>
      <xs:documentation> Number of components in the collection. Components
      include devices or pieces of media. </xs:documentation>
    </xs:documentation>
  </xs:element>
  <xs:element name="legalTitle"
    type="CVCEnumDOMEXLegalTitleType:CVCEnumDOMEXLegalTitleType">
    <xs:annotation>
      <xs:documentation> Legal Title </xs:documentation>
    </xs:documentation>
  </xs:element>

```

```

        <xs:element name="collectingUnitID"
          type="CVCEnumDOMEXCollectingUnitIDTypeType:CVCEnumDOMEXCollectingUnitIDTypeType"
          minOccurs="0">
          <xs:annotation>
            <xs:documentation> Number that identifies collection from that organization
              (SIGACT or Others). Support multiple IDs per collection.
          </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="collectingOrganizationNationality"
          type="irm:CompoundCountryCodeIdentifierType"
          minOccurs="0">
          <xs:annotation>
            <xs:documentation> Nationality of organization that collected the media.
          </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="reasonForCollecting" type="string4000" minOccurs="0">
          <xs:annotation>
            <xs:documentation> Reason, justification, or circumstance for collecting the
              media is submitted to NEXSYS </xs:documentation>
          </xs:annotation>
        </xs:element>
        <!-- Change Request #530 DOMEX: Additions to Collection Details -->

        <xs:element name="transportingUnit"
          type="CVCEnumDOMEXCollectingUnitIDTypeType:CVCEnumDOMEXCollectingUnitIDTypeType"
          minOccurs="0">
          <xs:annotation>
            <xs:documentation> Unit responsible for transporting collection from initial
              collection location. </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="transportingUnitPOC" type="xs:string" minOccurs="0">
          <xs:annotation>
            <xs:documentation> Point of contact within unit responsible for transporting
              collection from initial collection location. </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="transmittalNumber" type="xs:string" minOccurs="0">
          <xs:annotation>
            <xs:documentation> Transmittal number associated with this collection while
              in transit. </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="NumberOfBoxes" type="xs:positiveInteger" minOccurs="0">
          <xs:annotation>
            <xs:documentation> Number of physical boxes transported in this collection.
          </xs:documentation>
          </xs:annotation>
        </xs:element>
        <!-- End of Change Request #530 -->

        <xs:element name="homelandSecurity" type="string4000" minOccurs="0">

```

```

        <xs:annotation>
            <xs:documentation> DHS Objectives </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="internationalSharingAgreement"
        type="string4000"
        minOccurs="0">
        <xs:annotation>
            <xs:documentation> No description provided </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="lawEnforcementWarrant" type="string4000" minOccurs="0">
        <xs:annotation>
            <xs:documentation> DOJ, FBI Objectives </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="dodOperation" type="string4000" minOccurs="0">
        <xs:annotation>
            <xs:documentation> USDI Objectives </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="microCollectionLocation"
        type="MicroCollectionLocationType"
        minOccurs="0"
        maxOccurs="unbounded">
        <xs:annotation>
            <xs:documentation> Micro Collection Location: Optional details on where the
collection was acquired. </xs:documentation>
        </xs:annotation>
    </xs:element>
    <!-- Change Request #889 - Add Activity / sub activity elements -->

    <xs:element name="activity"
        type="ActivityType"
        minOccurs="0"
        maxOccurs="unbounded">
        <xs:annotation>
            <xs:documentation> Supports the ability to perform collection, media, and
document similarity classification. </xs:documentation>
        </xs:annotation>
    </xs:element>
    <!-- End of Change Request #889 -->

</xs:sequence>
    <xs:attributeGroup ref="irm:SecurityAttributesGroup"/>
    <!-- irm:identifier xs:attribute name="domexId" type="string36" use="required">
<xs:annotation>
    <xs:documentation>
        DOMEXIDs are unique, unclassified numbers that identify individual or batched documents and media and their resulting/associated records.
    </xs:documentation>
</xs:annotation>
</xs:attribute-->

    <!-- irm:identifier xs:attribute name="collectionId" type="string38" use="optional">
```

```
<xs:annotation>
  <xs:documentation>
    A collection ID is a number that uniquely identifies collection within NEXSYS
  </xs:documentation>
</xs:annotation>
</xs:attribute-->

  <xs:attribute name="uuid" type="UuidType" use="optional">
    <xs:annotation>
      <xs:documentation> A UUID attribute is provided for systems that make use of
such an identifier. </xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:attribute ref="DESVersion" use="optional"/>
</xs:complexType>
</xs:element>
<xs:complexType name="MicroCollectionLocationType">
  <xs:sequence>
    <xs:element name="narrative" type="string4000" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Examples: which computer, what desk drawer, which room in
house </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="descriptor"
      type="MicroCollectionLocationDescriptorType"
      minOccurs="0"
      maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation> @On Person Identify the person and the location on the person
(Detainee ID Number) @In Vehicle Collection location in vehicle and which
vehicle @At Building Collection location at building (e.g. Hotel, Business,
Warehouse) @On Battlefield Collection location on battlefield @Other Other
collection location (describe) </xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="MicroCollectionLocationDescriptorType">
  <xs:simpleContent>
    <xs:extension base="string4000">
      <xs:attribute name="type"
        type="CEnumDOMEXMicroCollectionLocationDescriptorTypeType:CEnumDOMEXMicroCollectionLocationDescriptorTypeType"
        use="required"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
<!-- ***** -->

<!-- Subject Details -->

<!-- ***** -->

<xs:element name="subjectInformation">
```

```

    <xs:annotation>
      <xs:documentation> Defines the subject information structure of the DOMEX assertions. A
"subject" could be a person, organization, facility or piece of equipment that is
associated with this acquisition. Multiple subjects of differing types are
permitted. Type of Subject Denoted by subject element </xs:documentation>
    </xs:annotation>
    <xs:complexType>
      <xs:sequence>
        <xs:choice>
          <xs:element ref="Identity:identity"/>
          <xs:element ref="facility"/>
          <xs:element ref="organization"/>
          <xs:element ref="equipment"/>
        </xs:choice>
        <xs:element name="fisaRelated"
type="CVCEnumDOMEXFisaType:CVCEnumDOMEXFisaType"
minOccurs="0">
          <xs:annotation>
            <xs:documentation> Information acquired by the FBI in accordance with
FISC-authorized physical searches, electronic surveillance, or other
means of acquisition targeting foreign powers and agents of foreign
powers. </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="fisaCaseId" type="string100" minOccurs="0">
          <xs:annotation>
            <xs:documentation> The Case ID if this is a FISA case </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="otherIdType"
type="CVCEnumDOMEXCollectingUnitIDTypeType:CVCEnumDOMEXCollectingUnitIDTypeType"
minOccurs="0">
          <xs:annotation>
            <xs:documentation> Other ID types associated with subject
        </xs:documentation>
          </xs:annotation>
        </xs:element>
      </xs:sequence>
      <xs:attribute name="uuid" type="UuidType" use="optional">
        <xs:annotation>
          <xs:documentation> A UUID attribute is provided for systems that make use of
such an identifier. </xs:documentation>
        </xs:annotation>
      </xs:attribute>
      <xs:attributeGroup ref="irm:SecurityAttributesGroup"/>
      <xs:attribute ref="DESVersion" use="optional"/>
    </xs:complexType>
  </xs:element>
<!-- ***** -->

<!-- Facility -->

<!-- ***** -->
```

```
<xs:element name="facility">
  <xs:annotation>
    <xs:documentation>Defines the metadata about a facility when a facility is the subject
of an acquisition. It is also used to specify content and analytic facility metadata
extracted from the file object or added through content management and
analysis.</xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="name" type="xs:string">
        <xs:annotation>
          <xs:documentation> Name of the facility </xs:documentation>
        </xs:annotation>
      </xs:element>
      <!-- artf14830 - Unbound facility address element -->

      <xs:element name="address"
        type="irm:PlaceType"
        minOccurs="0"
        maxOccurs="unbounded">
        <xs:annotation>
          <xs:documentation> A group of entities used in the DoD Discovery Metadata
Specification postalAddress plus others. Optionally includes Street,
City, State, Province, Postal Code, and Country Code.
        </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="affiliatedCountry"
        type="irm:CompoundCountryCodeIdentifierType"
        minOccurs="0">
        <xs:annotation>
          <xs:documentation> Country to which the facility is affiliated
        </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="relationship"
        type="RelationshipType"
        minOccurs="0"
        maxOccurs="unbounded">
        <xs:annotation>
          <xs:documentation> A relationship captures how entities are related to one
another. </xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
    <xs:attribute name="uuid" type="UuidType" use="optional"/>
    <xs:attribute ref="DESVersion" use="optional"/>
  </xs:complexType>
</xs:element>
<!-- ***** -->

<!-- Organization -->

<!-- ***** -->
```



```
<xs:element name="organization">
  <xs:annotation>
    <xs:documentation> Describes an Organization in the DOMEX Data Assertion
  </xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="name"
        type="OrganizationNameType"
        minOccurs="0"
        maxOccurs="unbounded">
        <xs:annotation>
          <xs:documentation> Name of the organization if subject is an organization.
            Includes Translated and Transliterated values if available.
        </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="type"
        type="CVCEnumDOMEXOrganizationTypeType:CVCEnumDOMEXOrganizationTypeType"
        minOccurs="0">
        <xs:annotation>
          <xs:documentation> Indicates the type of organization being described
        </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="description" type="string256" minOccurs="0">
        <xs:annotation>
          <xs:documentation> Descriptive details concerning organization
        </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="acronym"
        type="string40"
        minOccurs="0"
        maxOccurs="unbounded">
        <xs:annotation>
          <xs:documentation> Acronym representing the organization name.
        </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="phone"
        type="string100"
        minOccurs="0"
        maxOccurs="unbounded">
        <xs:annotation>
          <xs:documentation> A telephone number. This value includes country code and
            area code when applicable. Includes the original number in the native
            language script and also the ASCII representation. Can be the phone
            number of a person or organization.
          </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="e-mail"
        type="string256"
```



```

        minOccurs="0"
        maxOccurs="unbounded">
        <xs:annotation>
            <xs:documentation> An address for electronic mail. Can be for a person or
organization. </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="location"
type="irm:PlaceType"
minOccurs="0"
maxOccurs="unbounded">
        <xs:annotation>
            <xs:documentation> A group of entities used in the DoD Discovery Metadata
Specification postalAddress plus others. Optionally includes Street,
City, State, Province, Postal Code, and Country Code.
    </xs:documentation>
        </xs:annotation>
    </xs:element>
</xs:sequence>
    <xs:attribute ref="DESVersion" use="optional"/>
</xs:complexType>
</xs:element>
<xs:complexType name="OrganizationNameType">
    <xs:simpleContent>
        <xs:extension base="string500">
            <xs:attribute name="type"
type="CVENumDOMEXOrganizationNameTypeType:CVENumDOMEXOrganizationNameTypeType"
use="required"/>
        </xs:extension>
    </xs:simpleContent>
</xs:complexType>
<!-- ***** -->

<!-- Equipment -->

<!-- ***** -->

<xs:element name="equipment">
    <xs:annotation>
        <xs:documentation> Defines the metadata about equipment when equipment is the subject of
an acquisition. It is also used to specify content and analytic equipment metadata
extracted from the file object or added through content management and analysis.
    </xs:documentation>
    </xs:annotation>
    <xs:complexType>
        <xs:sequence>
            <xs:element name="designator" type="xs:string">
                <xs:annotation>
                    <xs:documentation> Equipment designator. </xs:documentation>
                </xs:annotation>
            </xs:element>
            <xs:element name="nomenclature" type="xs:string">
                <xs:annotation>
                    <xs:documentation> The name or nomenclature of the equipment.

```

```

        </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="countryOfManufacture"
            type="irm:CompoundCountryCodeIdentifierType"
            minOccurs="0"
            maxOccurs="unbounded">
            <xs:annotation>
                <xs:documentation> Country in which the equipment was manufactured.
            </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="serialNumber"
            type="xs:string"
            minOccurs="0"
            maxOccurs="unbounded">
            <xs:annotation>
                <xs:documentation> The serial number of a specific piece of equipment.
            </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="relationship"
            type="RelationshipType"
            minOccurs="0"
            maxOccurs="unbounded">
            <xs:annotation>
                <xs:documentation> A relationship captures how entities are related to one
                another. </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="remark"
            type="RemarkType"
            minOccurs="0"
            maxOccurs="unbounded">
            <xs:annotation>
                <xs:documentation> User comments. </xs:documentation>
            </xs:annotation>
        </xs:element>
    </xs:sequence>
    <xs:attribute name="uuid" type="UuidType" use="optional"/>
    <xs:attribute ref="DESVersion" use="optional"/>
</xs:complexType>
</xs:element>
<!-- ***** -->

<!-- Media Details -->

<!-- ***** -->

<xs:element name="mediaDetails">
    <xs:annotation>
        <xs:documentation> Media or Device Metadata: Data about the media or device source to
        include: connection to collection data, item identity within context of collection,
        hardware serial number, model number, image hash value. A physical media that may
```

```
contain one or more files. </xs:documentation>
</xs:annotation>
<xs:complexType>
  <xs:sequence>
    <xs:element name="dataOwner" type="string100">
      <xs:annotation>
        <xs:documentation> Organization that acquires, obtains, collects and/or
provides media to national repositories </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="personName" type="string300" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Person Name/Name associated with organization media owner
</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="phoneNumber" type="string100" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Phone Number/Telephone number associated with
organization media owner </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="itemSerialNumber" type="string100">
      <xs:annotation>
        <xs:documentation> Serial Number of media </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="collectingDeviceDistinctName" type="string100" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Name of device that collected information
</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="typeOfComponent" type="string256">
      <xs:annotation>
        <xs:documentation> Derived data or original data (scan of paper versus image
of hard drive) </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="exploitationResultsClassification"
type="ExploitationResultsClassificationType">
      <xs:annotation>
        <xs:documentation> The cumulative classification that is evaluated and
derived upon review by analysts. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <!-- artf14834 - Make deviceImage optional -->
    <xs:element name="deviceImage" type="DeviceImageType" minOccurs="0">
      <xs:annotation>
        <xs:documentation> An image or copy made of a media device
</xs:documentation>
      </xs:annotation>
    </xs:element>
```

```
<xs:element name="dispositionOfOriginalSource" type="string256" minOccurs="0">
  <xs:annotation>
    <xs:documentation> Location of the original media </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="firmware" type="FirmwareType" minOccurs="0">
  <xs:annotation>
    <xs:documentation> The firmware embedded in the media device.
</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="mediaSize" type="string50" minOccurs="0">
  <xs:annotation>
    <xs:documentation> Media size as stated on device label, etc.
</xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="manufacturer" type="string256" minOccurs="0">
  <xs:annotation>
    <xs:documentation> Device manufacturer </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="modelName" type="string100" minOccurs="0">
  <xs:annotation>
    <xs:documentation> Device model number </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="sourceManufacturer" type="string256" minOccurs="0">
  <xs:annotation>
    <xs:documentation> Media manufacturer </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="machineSid" type="string100" minOccurs="0">
  <xs:annotation>
    <xs:documentation> The Machine SID is used to identify a computer on a
network under Windows operating system. The machine SID is stored in the
SECURITY registry hive located at SECURITY\SAM\Domains\Account, this key
has two values F and V. The V value is a binary value that has the
computer SID embedded within it at the end of its data (last 96 bits).
The format of these IDs are as follows: SID:
S-1-5-21-108503121-1563985344-725345543 S - SID Label 1 - SID Version 5
- The identifier authority value 21-3623811015-3361044348-30300820 -
domain or local computer value. </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="volumeId" type="string100" minOccurs="0">
  <xs:annotation>
    <xs:documentation> Semi-unique number associated with a device when
formatted. </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="processingSite" type="string256" minOccurs="0">
  <xs:annotation>
    <xs:documentation> Location where media was first imaged or forensically
```

```

    processed </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="contactInformation" type="string400" minOccurs="0">
        <xs:annotation>
            <xs:documentation> Contact information of who processed media
        </xs:documentation>
    </xs:element>
    <xs:element name="toolsOrProcessesUsed" type="string256" minOccurs="0">
        <xs:annotation>
            <xs:documentation> Tools/processes used in processing media
        </xs:documentation>
    </xs:element>
    <xs:element name="typeOfSystemForensicallyPureImageCreated"
        type="string256"
        minOccurs="0">
        <xs:annotation>
            <xs:documentation> Type of System where Forensically Pure Image was Created
        </xs:documentation>
    </xs:element>
    <xs:element name="softwareUsedToProcessType" type="string256" minOccurs="0">
        <xs:annotation>
            <xs:documentation> Software used to process forensically pure image
        </xs:documentation>
    </xs:element>
    <xs:element name="versioningOfSoftware" type="string50" minOccurs="0">
        <xs:annotation>
            <xs:documentation> Versioning of software used to process forensically pure
        </xs:documentation>
    </xs:element>
    <xs:element name="explanationOfProcess" type="string256" minOccurs="0">
        <xs:annotation>
            <xs:documentation> Explanation of forensically pure image creation process
        </xs:documentation>
    </xs:element>
    <xs:element name="isDamaged" type="xs:boolean" minOccurs="0">
        <xs:annotation>
            <xs:documentation> A binary flag indicating that a device is damaged
        </xs:documentation>
    </xs:element>
    <xs:element name="repairsPerformedBy" type="string256" minOccurs="0">
        <xs:annotation>
            <xs:documentation> Person Description of repairs performed on damaged device
        </xs:documentation>
    </xs:element>
    <xs:element name="relationshipOfMultipleImagesToSingleDocument"
```

```

        type="string4000"
        minOccurs="0">
        <xs:annotation>
            <xs:documentation> Relationship of multiple images to single document
        </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="numberOfFiles"
        type="NumberOfFileType"
        minOccurs="0"
        maxOccurs="3">
        <xs:annotation>
            <xs:documentation> Number of videos/audio files/pictures on the device.
        </xs:documentation>
    </xs:element>
    <xs:element name="cableReferenceMessageTrafficID"
        type="string100"
        minOccurs="0">
        <xs:annotation>
            <xs:documentation> Cable/Reference/Message Traffic ID </xs:documentation>
        </xs:annotation>
    </xs:element>
    <!-- Change Request #889 - Add Activity / sub activity elements -->

    <xs:element name="activity"
        type="ActivityType"
        minOccurs="0"
        maxOccurs="unbounded">
        <xs:annotation>
            <xs:documentation> Supports the ability to perform collection, media, and
            document similarity classification. </xs:documentation>
        </xs:annotation>
    </xs:element>
    <!-- End of Change Request #889 -->

    <xs:element ref="subjectInformation" minOccurs="0" maxOccurs="unbounded"/>
    <xs:element ref="file" minOccurs="0" maxOccurs="unbounded"/>
    <!-- Change Request #529 - Add USB device info -->

    <xs:element name="usbDeviceReference"
        type="UsbDeviceReferenceType"
        minOccurs="0"
        maxOccurs="unbounded"/>
    </xs:sequence>
    <xs:attributeGroup ref="irm:SecurityAttributesGroup"/>
    <xs:attribute name="uuid" type="UuidType" use="optional"/>
    <xs:attribute ref="DESVersion" use="optional"/>
</xs:complexType>
</xs:element>
<xs:complexType name="ExploitationResultsClassificationType">
    <xs:simpleContent>
        <xs:extension base="xs:string">
            <xs:attributeGroup ref="irm:SecurityAttributesGroup"/>

```

```

        </xs:extension>
    </xs:simpleContent>
</xs:complexType>
<xs:complexType name="FirmwareType">
    <xs:sequence>
        <xs:element name="manufacturer" type="string256" minOccurs="0">
            <xs:annotation>
                <xs:documentation> Firmware Manufacture </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="partNumber" type="string100" minOccurs="0">
            <xs:annotation>
                <xs:documentation> Firmware Part Number </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="versionOrRelease" type="string50" minOccurs="0">
            <xs:annotation>
                <xs:documentation> Firmware Version or Release </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="biosDateAndTime" type="irm:CombinedDateType" minOccurs="0">
            <xs:annotation>
                <xs:documentation> BIOS Date and Time </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="actualDateAndTime" type="irm:CombinedDateType" minOccurs="0">
            <xs:annotation>
                <xs:documentation> Actual date and time when BIOS date and time were collected
            </xs:documentation>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="SoftwareUsedToProcessType">
    <xs:sequence>
        <xs:element name="name" type="xs:string">
            <xs:annotation>
                <xs:documentation> Software used to process forensically pure image
            </xs:documentation>
        </xs:element>
        <xs:element name="version" type="xs:string" minOccurs="0">
            <xs:annotation>
                <xs:documentation> Versioning of software used to process forensically pure
            </xs:documentation>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="DeviceImageType">
    <xs:sequence>
        <xs:element name="nameOfDeviceImageFile" type="string256">
            <xs:annotation>
                <xs:documentation> Name of file given to device image </xs:documentation>
            </xs:annotation>
        </xs:element>
    </xs:sequence>
</xs:complexType>
```



```

        </xs:annotation>
    </xs:element>
    <xs:element name="mediaType" type="CGLenumDOMEXMediaType:CGLenumDOMEXMediaType">
        <xs:annotation>
            <xs:documentation> Device type or media type. </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="collectionIDNumber" type="string38">
        <xs:annotation>
            <xs:documentation> Number that identifies collection </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="dateImaged" type="irm:CombinedDateType">
        <xs:annotation>
            <xs:documentation> The Date-Time-Group (DTG) imaging was started for a single
piece of media. </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="typeOfComponent" type="xs:string">
        <xs:annotation>
            <xs:documentation> Derived data or original data (scan of paper versus image of
hard drive) </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="deviceImageResultsClassification">
        <xs:annotation>
            <xs:documentation> The cumulative classification that is evaluated and derived
upon review by analysts. </xs:documentation>
        </xs:annotation>
        <xs:complexType>
            <xs:simpleContent>
                <xs:extension base="xs:string">
                    <xs:attributeGroup ref="irm:SecurityAttributesGroup"/>
                </xs:extension>
            </xs:simpleContent>
        </xs:complexType>
    </xs:element>
    <xs:element name="priorityOfComponent" type="xs:string">
        <xs:annotation>
            <xs:documentation> For NEXSYS, higher priority media and their contents will be
processed first. </xs:documentation>
        </xs:annotation>
    </xs:element>
    <!-- Change Request #663 - Allow multiple hash values -->
    <xs:element name="imageHashDigest" type="HashDigestType" maxOccurs="unbounded">
        <xs:annotation>
            <xs:documentation> Hash of raw image. </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="sourceHashDigest" type="HashDigestType" maxOccurs="unbounded">
        <xs:annotation>
            <xs:documentation> Hash of stored content </xs:documentation>
        </xs:annotation>
    </xs:element>

```



```

        </xs:element>
        <xs:element name="imageSize" type="ImageSizeType">
            <xs:annotation>
                <xs:documentation> Original size of the image </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="imageType" type="string100">
            <xs:annotation>
                <xs:documentation> Image Type, such as E01, Raw, etc </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="isImageLocked" type="xs:boolean">
            <xs:annotation>
                <xs:documentation> Is the source locked? </xs:documentation>
            </xs:annotation>
        </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="irm:SecurityAttributesGroup">
        <xs:annotation>
            <xs:documentation> The classification level for the image </xs:documentation>
        </xs:annotation>
    </xs:attributeGroup>
</xs:complexType>
<xs:complexType name="ImageSizeType">
    <xs:simpleContent>
        <xs:extension base="xs:positiveInteger">
            <xs:attribute name="type"
                type="CVCEnumDOMEXImageSizeTypeType:CVCEnumDOMEXImageSizeTypeType"
                use="required"/>
        </xs:extension>
    </xs:simpleContent>
</xs:complexType>
<xs:complexType name="NumberOfFilesType">
    <xs:simpleContent>
        <xs:extension base="xs:nonNegativeInteger">
            <xs:attribute name="type"
                type="CVCEnumDOMEXNumberOfFilesTypeType:CVCEnumDOMEXNumberOfFilesTypeType"
                use="required"/>
        </xs:extension>
    </xs:simpleContent>
</xs:complexType>
<!-- ***** -->

<!-- File - Media contains one or more files -->

<!-- ***** -->

<xs:element name="file">
    <xs:annotation>
        <xs:documentation> File Metadata: File metadata includes original document, derived,
content and analytic metadata. Document metadata includes Original File metadata,
Translation metadata, and Related Files. Documents include: documents, videos,
images, audio files, scanned documents (including pocket litter), etc.
    </xs:documentation>

```

```

        </xs:annotation>
        <xs:complexType>
          <xs:sequence>
<!-- irm:identifier xs:element name="harmonyNumber" type="string40">
  <xs:annotation>
    <xs:documentation>
      Unique number assigned to the Harmony record. The Harmony Number must be unclassified.
    </xs:documentation>
  </xs:annotation>
</xs:element-->

    <xs:element name="title" type="TitleType" maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation> Descriptive Title - Title of the original document or a
descriptive title. Translated Title - Translation of the title of the
original document. Original Title - Title of the original document.
Transliterated for non-Latin characters. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="primaryLanguage"
type="CVCEnumIRMISO639-3Trigraph:CVCEnumIRMISO639-3Trigraph">
      <xs:annotation>
        <xs:documentation> Primary Language of the Original Document.
      </xs:documentation>
    </xs:element>
    <xs:element name="additionalLanguages"
type="CVCEnumIRMISO639-3Trigraph:CVCEnumIRMISO639-3Trigraph"
minOccurs="0"
maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation> Additional languages in the original document.
      </xs:documentation>
    </xs:element>
    <xs:element name="documentDate" type="irm:ApproximableDateType" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Date the original document was published (as identified
in the document). </xs:documentation>
      </xs:annotation>
    </xs:element>
<!-- irm:acquiredOn xs:element name="dateAcquired" type="irm:CombinedDateType" minOccurs="0">
<xs:annotation>
  <xs:documentation>
    Date the original document was obtained, collected, acquired, or purchased. This date may be the same as the Acquisition Metadata - Date Acquired.
  </xs:documentation>
</xs:annotation>
</xs:element -->

    <xs:element name="entryDate" type="irm:CombinedDateType" minOccurs="0">
      <xs:annotation>
        <xs:documentation> System generated date when the record entered the system.
      </xs:documentation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

```

    </xs:element>
    <xs:element name="documentType"
      type="CVENumDOMEXDocumentType:CVENumDOMEXDocumentType"
      minOccurs="0">
      <xs:annotation>
        <xs:documentation> Type of information contained in the original document,
such as technical manual, study, letter, or article. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="format" type="string100" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Physical state of the captured original document, for
example, Electronic File, Compact Disc or Paper Copy.
      </xs:documentation>
    </xs:annotation>
  </xs:element>
  <!-- artf14831 - Unbound project element -->

  <xs:element name="project"
    type="string150"
    minOccurs="0"
    maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation> Code name(s) for the operation under which this document
was collected. </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="owningAgency" type="AgencyType" minOccurs="0">
    <xs:annotation>
      <xs:documentation> Agency that owns the original document and record
    </xs:documentation>
  </xs:annotation>
  </xs:element>
  <xs:element name="countryOfInformation"
    type="irm:CompoundCountryCodeIdentifierType"
    minOccurs="0">
    <xs:annotation>
      <xs:documentation> Country(s) referenced in the original document.
    </xs:documentation>
  </xs:annotation>
  </xs:element>
  <xs:element name="countryOfPublication"
    type="irm:CompoundCountryCodeIdentifierType"
    minOccurs="0">
    <xs:annotation>
      <xs:documentation> Country where the original document was published or
written. </xs:documentation>
    </xs:annotation>
  </xs:element>
  <!-- irm:keyword xs:element name="keyword" type="xs:string" minOccurs="0" maxOccurs="unbounded">
<xs:annotation>
  <xs:documentation>
    Keywords about the document. Generic or specific terms representing the content of the original document. Examples: WMD, Missile Technology, POW, IED.
  </xs:documentation>
</xs:annotation>

```

```

    </xs:annotation>
  </xs:element-->

  <xs:element name="relatedDocumentNumber"
    type="xs:string"
    minOccurs="0"
    maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation> Document numbers associated with the Document record.
    </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="remark" type="RemarkType" minOccurs="0">
    <xs:annotation>
      <xs:documentation> Free text field where a remark or description may be
included. </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="relatedISN"
    type="xs:string"
    minOccurs="0"
    maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation> List of Internment Serial Numbers (ISNs) related to this
document. </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="birDetainee" type="BirDetaineeType" minOccurs="0">
    <xs:annotation>
      <xs:documentation> Detainee name and biometric URL associated with the ISNs
in the Biometrics Intelligence Resource (BIR). </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="dateAccessed" type="irm:CombinedDateType" minOccurs="0">
    <xs:annotation>
      <xs:documentation> Date of last file access as recorded by the operating
system of the original media. </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="dateCreated" type="irm:CombinedDateType" minOccurs="0">
    <xs:annotation>
      <xs:documentation> Date file was created as stored by the operating system
of the original source media. </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="dateModified" type="irm:CombinedDateType" minOccurs="0">
    <xs:annotation>
      <xs:documentation> Date file was last modified as stored by the operating
system of the original source media. </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="disposition"
    type="CVCEnumDOMEXDispositionType:CVCEnumDOMEXDispositionType"
    minOccurs="0">

```

```

        <xs:annotation>
            <xs:documentation> One of six categories (or dispositions) of files: overt,
deleted, derived, residual, generated and uploaded. </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="transliteratedFileName" type="string256" minOccurs="0">
        <xs:annotation>
            <xs:documentation> Transliterated filename. </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="originalFileName" type="string256">
        <xs:annotation>
            <xs:documentation> Filename of the document, image or multi-media file as
stored by the operating system of the original source media.
        </xs:documentation>
    </xs:annotation>
    </xs:element>
    <!-- Change Request #532 DOMEX: File Types - Accommodate Legacy Data Stores. -->

    <xs:element name="fileMimeType" type="CVCEnumMimeType:CVCEnumMimeType">
        <xs:annotation>
            <xs:documentation> File mime type of the original file. </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="fileType"
type="CVCEnumDOMEXFileType:CVCEnumDOMEXFileType"
minOccurs="0">
        <xs:annotation>
            <xs:documentation> Legacy file type of the original file.
        </xs:documentation>
    </xs:annotation>
    </xs:element>
    <!-- End of Change Request #532 -->

    <xs:element name="numberOfPages" type="xs:positiveInteger" minOccurs="0">
        <xs:annotation>
            <xs:documentation> Number of pages in the document. </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="numberOfWords" type="xs:positiveInteger" minOccurs="0">
        <xs:annotation>
            <xs:documentation> Number of words in the document. </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="duration" type="xs:positiveInteger" minOccurs="0">
        <xs:annotation>
            <xs:documentation> Duration, in seconds, of the audio or video recording.
        </xs:documentation>
    </xs:annotation>
    </xs:element>
    <xs:element name="media"
type="CVCEnumDOMEXMediaType:CVCEnumDOMEXMediaType"
minOccurs="0">
        <xs:annotation>
```

```

        <xs:documentation> Media Type. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="size" type="xs:positiveInteger" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Size of the file in Kbytes. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="sourcePath" type="xs:anyURI" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Complete source path of the file as stored on the
original media. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <!-- artf14840 - Leave hash value in file definition -->

<!-- Change Request #663 - Allow multiple hash values -->

<xs:element name="hashValue"
  type="HashDigestType"
  minOccurs="0"
  maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation> Hash Code of the Original File. Hash types include: MD-5,
SHA-256, SHA-1 </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="numberOfDuplicatesInCDR"
  type="xs:nonNegativeInteger"
  minOccurs="0">
  <xs:annotation>
    <xs:documentation> The number of times the file has been seen in NEXSYS
regardless of whether it has been found multiple times in a single
collection. </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="numberOfSimilarFilesInCDR"
  type="xs:nonNegativeInteger"
  minOccurs="0">
  <xs:annotation>
    <xs:documentation> The number of times a similar file has been seen in
NEXSYS regardless of whether it has been found multiple times in a
single collection. </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="propertiesLastEditedBy" type="string40">
  <xs:annotation>
    <xs:documentation> NEXSYS User ID of the individual that last modified the
file metadata. </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="dateAndTimeOfLastModification" type="irm:CombinedDateType">
  <xs:annotation>
    <xs:documentation> Date the file metadata was last modified.

```

```
</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="reasonForModification" type="string512">
    <xs:annotation>
      <xs:documentation> Free text field where the reason for modification is
entered. </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="hasSubtitles" type="xs:boolean" minOccurs="0">
    <xs:annotation>
      <xs:documentation> A Yes or No field to indicate if a multimedia file has
subtitles. </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="subtitleLanguage"
type="CVCEnumIRMISO639-3Trigraph:CVCEnumIRMISO639-3Trigraph"
minOccurs="0">
    <xs:annotation>
      <xs:documentation> Primary subtitle language. </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="productionGroup" type="string512" minOccurs="0">
    <xs:annotation>
      <xs:documentation> Multi-media producer. Need list of known values (eg:
Bollywood, Warner Brothers, etc.) </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="speakerIdentification" type="string1000" minOccurs="0">
    <xs:annotation>
      <xs:documentation> Free text field where identified speakers in an audio or
video recording may be entered. </xs:documentation>
    </xs:annotation>
  </xs:element>
  <!-- Change Request #889 - Add Activity / sub activity elements -->

  <xs:element name="activity"
type="ActivityType"
minOccurs="0"
maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation> Supports the ability to perform collection, media, and
document similarity classification. </xs:documentation>
    </xs:annotation>
  </xs:element>
  <!-- End of Change Request #889 -->

<!-- artf14832 - Media or derived file information optional -->

<!-- Change Request #531 - DOMEX: Derived Files - Allow for translated media, derived files and derived files derived from other files. -->

  <xs:element name="mediaFile" type="MediaFileType" minOccurs="0"/>
    <xs:element name="translation" type="TranslationDetailsType" minOccurs="0"/>
    <xs:element name="derivedFile" minOccurs="0" maxOccurs="unbounded">
```



```

        <xs:complexType>
            <xs:sequence>
                <xs:element ref="file"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <!-- End of Change Request #531 -->

    <xs:element name="analytics" type="AnalyticType" minOccurs="0">
        <xs:annotation>
            <xs:documentation> An entity is something with distinct, independent
            existence in the real world, either concrete or abstract. The term
            entity may be used for the thing in the real world, or alternatively it
            may be used for a representation of the thing in some information system
        </xs:documentation>
        </xs:annotation>
    </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="irm:SecurityAttributesGroup"/>
    <xs:attribute name="uuid" type="UuidType" use="optional"/>
    <xs:attribute ref="DESVersion" use="optional"/>
</xs:complexType>
</xs:element>
<!-- ***** -->

<!-- Reference to a USB device -->

<!-- ***** -->

<!-- Change Request #529 - Add USB device info -->

<xs:complexType name="UsbDeviceReferenceType">
    <xs:annotation>
        <xs:documentation>Data about a device connected to the media via USB
        interface.</xs:documentation>
    </xs:annotation>
    <xs:sequence>
        <xs:element name="serialNumber" type="xs:string"/>
        <xs:element name="vendorId" type="xs:string"/>
        <xs:element name="vendorName" type="xs:string"/>
        <xs:element name="productId" type="xs:string"/>
        <xs:element name="productName" type="xs:string"/>
        <xs:element name="interfaceId" type="xs:string" minOccurs="0"/>
        <xs:element name="interfaceName" type="xs:string" minOccurs="0"/>
        <xs:element name="version" type="xs:string"/>
        <xs:element name="firstConnectTime" type="xs:dateTime"/>
        <xs:element name="rebootConnectTime" type="xs:dateTime"/>
        <xs:element name="lastConnectTime" type="xs:dateTime"/>
        <xs:element name="volumeGuid" type="domex:UuidType"/>
        <xs:element name="softwareVersion" type="xs:string"/>
        <xs:element name="driveLetter" type="xs:string"/>
    </xs:sequence>
    <xs:attribute name="foundIn" type="xs:string" use="optional"/>
</xs:complexType>
```



```

    <!-- End of change Request #529 - Add USB device info -->

<xs:complexType name="TitleType">
  <xs:simpleContent>
    <xs:extension base="string500">
      <xs:attribute name="type"
        type="CVCEnumDOMEXTitleTypeType:CVCEnumDOMEXTitleTypeType"
        use="required">
        <xs:annotation>
          <xs:documentation> Type of title - Original, translated, descriptive
        </xs:documentation>
        </xs:annotation>
      </xs:attribute>
      <xs:attribute name="language"
        type="CVCEnumIRMISO639-3Trigraph:CVCEnumIRMISO639-3Trigraph"
        use="optional">
        <xs:annotation>
          <xs:documentation> Language of the document title. </xs:documentation>
        </xs:annotation>
      </xs:attribute>
      <xs:attributeGroup ref="irm:SecurityAttributesGroup"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
<xs:complexType name="BirDetaineeType">
  <xs:sequence>
    <xs:element name="birDetaineeName" type="string300">
      <xs:annotation>
        <xs:documentation> Detainee name associated with the ISNs in the Biometrics
        Intelligence Resource (BIR). </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="biometricUrl"
      type="xs:anyURI"
      minOccurs="0"
      maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation> List of URLs to this detainee's records in BIR.
      </xs:documentation>
    </xs:element>
  </xs:sequence>
  <xs:attributeGroup ref="irm:SecurityAttributesGroup"/>
</xs:complexType>
<xs:complexType name="MediaFileType">
  <xs:choice>
    <xs:element name="exifImage" type="ImageDetailsType"/>
    <xs:element name="audio" type="AudioDetailsType"/>
    <xs:element name="video" type="VideoDetailsType"/>
  </xs:choice>
</xs:complexType>
<xs:complexType name="ImageDetailsType">
  <xs:annotation>
    <xs:documentation> Exchangeable Image File Format (EXIF) information. EXIF is the

```

```
standard that specifies the formats to be used for images, sound and tags in digital
still cameras and in other systems handling the image and sound files recorded by
digital still cameras. </xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="model" type="string100" minOccurs="0">
      <xs:annotation>
        <xs:documentation> The image input equipment model name or number.
      </xs:documentation>
    </xs:element>
    <xs:element name="make" type="string100" minOccurs="0">
      <xs:annotation>
        <xs:documentation> The image input equipment manufacturer. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="cameraSerialNumber" type="string100" minOccurs="0">
      <xs:annotation>
        <xs:documentation> The image input equipment serial number. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="dateTimeOriginal" type="irm:CombinedDateType" minOccurs="0">
      <xs:annotation>
        <xs:documentation> The date and time of image creation. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="imageWidth" type="xs:positiveInteger" minOccurs="0">
      <xs:annotation>
        <xs:documentation> The number of columns of image data, equal to the number of
pixels per row. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="imageLength" type="xs:positiveInteger" minOccurs="0">
      <xs:annotation>
        <xs:documentation> The number of rows of image data. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="gpsCoordinates" type="tspi-core:PointType" minOccurs="0">
      <xs:annotation>
        <xs:documentation> The reported GPS coordinates expressed as degrees, minutes
and seconds. </xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="AudioDetailsType">
  <xs:annotation>
    <xs:documentation> Details for an audio file </xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="bitRate" type="xs:positiveInteger" minOccurs="0">
      <xs:annotation>
        <xs:documentation> The number of bits that are conveyed or processed per unit of
time. </xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

```

        </xs:annotation>
      </xs:element>
      <xs:element name="sampleRate" type="xs:positiveInteger" minOccurs="0">
        <xs:annotation>
          <xs:documentation> The number of samples per unit of time (usually seconds)
            taken from a continuous signal to make a discrete signal.
        </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="channels" type="xs:positiveInteger" minOccurs="0">
        <xs:annotation>
          <xs:documentation> The reported number of audio channels in a multitrack
            recording.
        </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="compression" type="string50" minOccurs="0">
        <xs:annotation>
          <xs:documentation> The compression format or standard used to store the audio
            data.
        </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="codec" type="string50" minOccurs="0">
        <xs:annotation>
          <xs:documentation> The device or computer program capable of encoding or
            decoding a digital data stream or signal.
        </xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="VideoDetailsType">
    <xs:annotation>
      <xs:documentation> Details for a video file
    </xs:documentation>
    </xs:annotation>
    <xs:sequence>
      <xs:element name="creatorTool" type="string150">
        <xs:annotation>
          <xs:documentation> The reported tool that created the media file.
        </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="frameRate" type="string50" minOccurs="0">
        <xs:annotation>
          <xs:documentation> The reported frame rate of the media file.
        </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="dataRate" type="string50" minOccurs="0">
        <xs:annotation>
          <xs:documentation> The reported bit rate of the video stream.
        </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="length" type="string50" minOccurs="0">
        <xs:annotation>
```

```

        <xs:documentation> The length of the recording expressed in
hours:minutes:seconds </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="codec" type="string50" minOccurs="0">
      <xs:annotation>
        <xs:documentation> The device or computer program capable of encoding or
decoding a digital data stream or signal. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="resolution" type="string50" minOccurs="0">
      <xs:annotation>
        <xs:documentation> The number of pixels expressed as width x height.
</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="malware" type="string150" minOccurs="0">
      <xs:annotation>
        <xs:documentation> The name of a specific piece of malware found by a scan.
</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="TranslationDetailsType">
  <xs:annotation>
    <xs:documentation> Details for a translation </xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="translationStatus"
      type="CVCEnumDOMEXTranslationStatusType:CVCEnumDOMEXTranslationStatusType"
      minOccurs="0">
      <xs:annotation>
        <xs:documentation> Status of the translation activity. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="translationAgency" type="AgencyType" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Agency/Organization assigned to perform the translation.
</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="translationType"
      type="CVCEnumDOMEXTranslationType:CVCEnumDOMEXTranslationType"
      minOccurs="0">
      <xs:annotation>
        <xs:documentation> Description of the type of translation. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="translationDate" type="irm:CombinedDateType" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Date the translation was completed. </xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

```

        <xs:element name="languageFrom"
            type="CVCEnumIRMISO639-3Trigraph:CVCEnumIRMISO639-3Trigraph"
            minOccurs="0">
            <xs:annotation>
                <xs:documentation> Language(s) of the original document being translated.
            </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="languageTo"
            type="CVCEnumIRMISO639-3Trigraph:CVCEnumIRMISO639-3Trigraph"
            minOccurs="0">
            <xs:annotation>
                <xs:documentation> Language being translated to; this is usually English.
            </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="translationDocument" type="xs:anyURI" minOccurs="0">
            <xs:annotation>
                <xs:documentation> Document resulting from this translation. </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="priority"
            type="CVCEnumDOMEXTranslationPriorityType:CVCEnumDOMEXTranslationPriorityType"
            minOccurs="0">
            <xs:annotation>
                <xs:documentation> Priority of this translation. </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="remark" type="RemarkType" minOccurs="0">
            <xs:annotation>
                <xs:documentation> Additional information about the translation.
            </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="requester" type="string300" minOccurs="0">
            <xs:annotation>
                <xs:documentation> Name of the individual requesting a translation.
            </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="requesterAgency" type="AgencyType" minOccurs="0">
            <xs:annotation>
                <xs:documentation> Agency/Organization of the translation requester.
            </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="requestDate" type="irm:CombinedDateType" minOccurs="0">
            <xs:annotation>
                <xs:documentation> Date the request was submitted. </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="dateRequired" type="irm:CombinedDateType" minOccurs="0">
            <xs:annotation>
                <xs:documentation> Date by which the translation is required.
            </xs:documentation>
            </xs:annotation>
        </xs:element>
    </xs:element>

```

```

</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="machineTranslationTool" type="string256" minOccurs="0">
    <xs:annotation>
      <xs:documentation> Name and version of the tool used to create the machine
translation. </xs:documentation>
    </xs:annotation>
  </xs:element>
</xs:sequence>
</xs:complexType>
<xs:complexType name="AnalyticType">
  <xs:annotation>
    <xs:documentation> Content and Analytic Metadata - An entity is something with distinct,
independent existence in the real world, either concrete or abstract. The term
entity may be used for the thing in the real world, or alternatively it may be used
for a representation of the thing in some information system.. Relationships that
exist between entities. </xs:documentation>
  </xs:annotation>
  <xs:choice maxOccurs="unbounded">
    <xs:element name="personEntity">
      <xs:annotation>
        <xs:documentation> A physical person is a biological entity that uniquely
represents a person. Any entity with the attributes that constitute
personhood. </xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:group ref="entityCommonElements"/>
          <xs:group ref="namedEntityCommonElements"/>
        </xs:sequence>
        <xs:attribute name="uuid" type="UuidType"/>
      </xs:complexType>
    </xs:element>
    <xs:element name="identityEntity">
      <xs:annotation>
        <xs:documentation> An identity is a set of biographic information and/or
biometric information (e.g., photographs) that a person uses and/or is
associated with at a point in time. Each physical person can have multiple
identities. Multiple identities can be grouped together into a single
person, associating the group to the biometric information for the person.
Optional Identity attributes include: Honorific Prefix, Given Name,
Additional Name, Family Name, Honorific Suffix, Date of Birth, Date of
Death, Place of Birth, Place of Death, Gender, Physical Description
      </xs:documentation>
    </xs:annotation>
    <xs:complexType>
      <xs:sequence>
        <xs:group ref="entityCommonElements"/>
        <xs:group ref="namedEntityCommonElements"/>
        <xs:element ref="Identity:identity"/>
      </xs:sequence>
      <xs:attribute name="uuid" type="UuidType"/>
    </xs:complexType>
  </xs:choice>
</xs:complexType>

```

```

    </xs:element>
    <xs:element name="personaEntity">
      <xs:annotation>
        <xs:documentation> A collection of attributes that may include the attributes
for identity but will also include attributes that is dependent on context
and/or circumstance. </xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:group ref="entityCommonElements"/>
          <xs:group ref="namedEntityCommonElements"/>
          <xs:element name="userName" type="xs:string">
            <xs:annotation>
              <xs:documentation> User name. </xs:documentation>
            </xs:annotation>
          </xs:element>
          <xs:element name="role" type="xs:string">
            <xs:annotation>
              <xs:documentation> A specific application within a persona.
</xs:documentation>
            </xs:annotation>
          </xs:element>
          <xs:element name="accountType" type="xs:string">
            <xs:annotation>
              <xs:documentation> The type of account, includes email address,
instant messenger, VOIP, social networking site: Facebook,
Twitter, Google+, Other. </xs:documentation>
            </xs:annotation>
          </xs:element>
          <xs:element name="handle" type="xs:string">
            <xs:annotation>
              <xs:documentation> Alias. </xs:documentation>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
        <xs:attribute name="uuid" type="UuidType"/>
      </xs:complexType>
    </xs:element>
    <xs:element name="organizationEntity">
      <xs:annotation>
        <xs:documentation> Organization - a group of persons united for a cause,
activity, ideal, etc. </xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:group ref="entityCommonElements"/>
          <xs:group ref="namedEntityCommonElements"/>
          <xs:element ref="organization"/>
        </xs:sequence>
        <xs:attribute name="uuid" type="UuidType"/>
      </xs:complexType>
    </xs:element>
    <xs:element name="locationEntity">
      <xs:annotation>
```



```

        <xs:documentation> Geopoint or Postal Address. </xs:documentation>
    </xs:annotation>
    <xs:complexType>
        <xs:sequence>
            <xs:group ref="entityCommonElements"/>
            <xs:group ref="namedEntityCommonElements"/>
            <xs:choice>
                <xs:element name="address" type="irm:PlaceType">
                    <xs:annotation>
                        <xs:documentation> A group of entities used in the DoD Discovery
Metadata Specification postalAddress plus others. Optionally
includes Street, City, State, Province, Postal Code, and
Country Code. </xs:documentation>
                    </xs:annotation>
                </xs:element>
                <xs:element name="geoPoint" type="tspi-core:PointType">
                    <xs:annotation>
                        <xs:documentation> Associated location. Type: Geopoint
(optional) </xs:documentation>
                    </xs:annotation>
                </xs:element>
            </xs:choice>
        </xs:sequence>
        <xs:attribute name="uuid" type="UuidType"/>
    </xs:complexType>
</xs:element>
<xs:element name="equipmentEntity">
    <xs:annotation>
        <xs:documentation> The name or nomenclature of the equipment.
    </xs:documentation>
    </xs:annotation>
    <xs:complexType>
        <xs:sequence>
            <xs:group ref="entityCommonElements"/>
            <xs:group ref="namedEntityCommonElements"/>
            <xs:element ref="equipment"/>
        </xs:sequence>
        <xs:attribute name="uuid" type="UuidType"/>
    </xs:complexType>
</xs:element>
<xs:element name="facilityEntity">
    <xs:annotation>
        <xs:documentation> Facility name. </xs:documentation>
    </xs:annotation>
    <xs:complexType>
        <xs:sequence>
            <xs:group ref="entityCommonElements"/>
            <xs:group ref="namedEntityCommonElements"/>
            <xs:element ref="facility"/>
        </xs:sequence>
        <xs:attribute name="uuid" type="UuidType"/>
    </xs:complexType>
</xs:element>
<xs:element name="systemUriEntity">
```

```

    <xs:annotation>
      <xs:documentation> Uniform Resource Identifier (URI). </xs:documentation>
    </xs:annotation>
    <xs:complexType>
      <xs:sequence>
        <xs:group ref="entityCommonElements"/>
        <xs:element name="uri" type="xs:anyURI"/>
      </xs:sequence>
      <xs:attribute name="uuid" type="UuidType"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="emailAddressEntity">
    <xs:annotation>
      <xs:documentation> EmailAddress </xs:documentation>
    </xs:annotation>
    <xs:complexType>
      <xs:sequence>
        <xs:group ref="entityCommonElements"/>
        <xs:element name="emailAddress" type="string256">
          <xs:annotation>
            <xs:documentation> An address for electronic mail. Can be for a
person or organization. </xs:documentation>
          </xs:annotation>
        </xs:element>
      </xs:sequence>
      <xs:attribute name="uuid" type="UuidType"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="webAddressEntity">
    <xs:annotation>
      <xs:documentation> Web Address </xs:documentation>
    </xs:annotation>
    <xs:complexType>
      <xs:sequence>
        <xs:group ref="entityCommonElements"/>
        <xs:element name="webAddress" type="string256"/>
      </xs:sequence>
      <xs:attribute name="uuid" type="UuidType"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="titleEntity">
    <xs:annotation>
      <xs:documentation> Title (personal) as extracted from a file by an entity
extraction tool. </xs:documentation>
    </xs:annotation>
    <xs:complexType>
      <xs:sequence>
        <xs:group ref="entityCommonElements"/>
      </xs:sequence>
      <xs:attribute name="uuid" type="UuidType"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="creditCardNumberEntity">
    <xs:annotation>
```

```

        <xs:documentation> Credit card number as extracted from a file by an entity
extraction tool. </xs:documentation>
      </xs:annotation>
    <xs:complexType>
      <xs:sequence>
        <xs:group ref="entityCommonElements"/>
      </xs:sequence>
      <xs:attribute name="uuid" type="UuidType"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="personalIdEntity">
    <xs:annotation>
      <xs:documentation> Personal Identification Number as extracted from a file by an
entity extraction tool. </xs:documentation>
    </xs:annotation>
    <xs:complexType>
      <xs:sequence>
        <xs:group ref="entityCommonElements"/>
      </xs:sequence>
      <xs:attribute name="uuid" type="UuidType"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="moneyEntity">
    <xs:annotation>
      <xs:documentation> A unit of currency as extracted from a file by an entity
extraction tool. </xs:documentation>
    </xs:annotation>
    <xs:complexType>
      <xs:sequence>
        <xs:group ref="entityCommonElements"/>
      </xs:sequence>
      <xs:attribute name="uuid" type="UuidType"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="nationalityEntity">
    <xs:annotation>
      <xs:documentation> Nationality as extracted from a file by an entity extraction
tool. </xs:documentation>
    </xs:annotation>
    <xs:complexType>
      <xs:sequence>
        <xs:group ref="entityCommonElements"/>
      </xs:sequence>
      <xs:attribute name="uuid" type="UuidType"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="religionEntity">
    <xs:annotation>
      <xs:documentation> Religion as extracted from a file by an entity extraction
tool. </xs:documentation>
    </xs:annotation>
    <xs:complexType>
      <xs:sequence>
        <xs:group ref="entityCommonElements"/>

```

```

        </xs:sequence>
        <xs:attribute name="uuid" type="UuidType"/>
      </xs:complexType>
    </xs:element>
    <xs:element name="distanceEntity">
      <xs:annotation>
        <xs:documentation> Distance as extracted from a file by an entity extraction
tool. </xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:group ref="entityCommonElements"/>
        </xs:sequence>
        <xs:attribute name="uuid" type="UuidType"/>
      </xs:complexType>
    </xs:element>
    <xs:element name="timeEntity">
      <xs:annotation>
        <xs:documentation> Time as extracted from a file by an entity extraction tool.
</xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:group ref="entityCommonElements"/>
        </xs:sequence>
        <xs:attribute name="uuid" type="UuidType"/>
      </xs:complexType>
    </xs:element>
    <xs:element name="productEntity">
      <xs:annotation>
        <xs:documentation> </xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:group ref="entityCommonElements"/>
          <xs:group ref="namedEntityCommonElements"/>
        </xs:sequence>
        <xs:attribute name="uuid" type="UuidType"/>
      </xs:complexType>
    </xs:element>
    <xs:element name="financialTransactionEntity">
      <xs:annotation>
        <xs:documentation> Financial Transaction </xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:sequence>
          <xs:group ref="entityCommonElements"/>
          <xs:element name="date" type="irm:CombinedDateType" minOccurs="0">
            <xs:annotation>
              <xs:documentation> Date the financial transaction occurred.
</xs:documentation>
            </xs:annotation>
          </xs:element>
          <xs:element name="item" type="string100" minOccurs="0">

```

```

        <xs:annotation>
            <xs:documentation> Subject of the financial transaction. For
example, Payment, Purchase </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="amount" type="string100" minOccurs="0">
        <xs:annotation>
            <xs:documentation> Amount of the financial transaction.
</xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="type"
type="CVENumDOMEXFinancialTransactionTypeType:CVENumDOMEXFinancialTransactionTypeType"
minOccurs="0">
        <xs:annotation>
            <xs:documentation> Type of financial transaction. Includes PayPal,
Cash, Western Union, Credit Card, On-line Hawala Site, Bank Wire
Transfer, Other. </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="accountNumber" type="string50" minOccurs="0">
        <xs:annotation>
            <xs:documentation> Account number used in the transaction.
</xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="accountType"
type="CVENumDOMEXFinancialAccountTypeType:CVENumDOMEXFinancialAccountTypeType"
minOccurs="0">
        <xs:annotation>
            <xs:documentation> Type of financial account. Values include ATM
Card, Checking, Credit Card, Debit Card, Investment, Savings,
Other. </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="password" type="string50" minOccurs="0">
        <xs:annotation>
            <xs:documentation> Password used in the financial transaction.
</xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="pin" type="string20" minOccurs="0">
        <xs:annotation>
            <xs:documentation> Personal Identification Number used in the
financial transaction. </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="remark"
type="RemarkType"
minOccurs="0"
maxOccurs="unbounded">
        <xs:annotation>
            <xs:documentation> Use remarks. </xs:documentation>
        </xs:annotation>
    </xs:element>

```

```

        </xs:element>
      </xs:sequence>
      <xs:attribute name="uuid" type="UuidType"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="travelEntity">
    <xs:annotation>
      <xs:documentation> Entity for travel transactions. </xs:documentation>
    </xs:annotation>
    <xs:complexType>
      <xs:sequence>
        <xs:group ref="entityCommonElements"/>
        <xs:element name="type"
          type="CEnumDOMEXTravelTypeType:CEnumDOMEXTravelTypeType"
          minOccurs="0">
          <xs:annotation>
            <xs:documentation> The method of travel. Values include: Auto,
Bicycle, Bus, Commercial Air, Commercial Truck, Commercial
Vessel, Express Consignment, Fishing Vessel, Mail, Motorcycle,
Pedestrian, Private Aircraft, Private Vessel, Train, Truck, Van,
Other. </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="carrier" type="string100" minOccurs="0">
          <xs:annotation>
            <xs:documentation> Name of the airline, vessel, train.
</xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="flightType"
          type="CEnumDOMEXFlightTypeType:CEnumDOMEXFlightTypeType"
          minOccurs="0">
          <xs:annotation>
            <xs:documentation> The type of airline flight. Values are: Domestic,
Extra-territorial, and International </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="travelIdentifier" type="string50" minOccurs="0">
          <xs:annotation>
            <xs:documentation> Flight number, train number, bus route, etc.
</xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="departureLocation" type="irm:PlaceType" minOccurs="0">
          <xs:annotation>
            <xs:documentation> Postal address of the departure location.
</xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="departureDateTime" type="irm:CombinedDateType" minOccurs="0">
          <xs:annotation>
            <xs:documentation> Date and time of the departure.
</xs:documentation>
          </xs:annotation>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>

```

```

        </xs:element>
        <xs:element name="arrivalLocation" type="irm:PlaceType" minOccurs="0">
          <xs:annotation>
            <xs:documentation> Postal address of the arrival location.
          </xs:documentation>
        </xs:element>
        <xs:element name="arrivalDateTime" type="irm:CombinedDateType" minOccurs="0">
          <xs:annotation>
            <xs:documentation> Date and time of the arrival. </xs:documentation>
          </xs:annotation>
        </xs:element>
      </xs:sequence>
      <xs:attribute name="uuid" type="UuidType"/>
    </xs:complexType>
  </xs:element>
  <xs:element name="eventEntity">
    <xs:annotation>
      <xs:documentation> Event - Something that takes place; an occurrence.
    </xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:group ref="entityCommonElements"/>
      <xs:element name="type" type="CGLenumDOMEXEventTypeType:CGLenumDOMEXEventTypeType">
        <xs:annotation>
          <xs:documentation> The type of event. Includes Conflict, Objective,
Raid, Political. </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="startDate" type="irm:CombinedDateType" minOccurs="0">
        <xs:annotation>
          <xs:documentation> Date the event started. </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="endDate" type="irm:CombinedDateType" minOccurs="0">
        <xs:annotation>
          <xs:documentation> Date the event ended. </xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
    <xs:attribute name="uuid" type="UuidType"/>
  </xs:complexType>
</xs:element>
</xs:choice>
</xs:complexType>
<xs:group name="entityCommonElements">
  <xs:annotation>
    <xs:documentation> Each entity will have these elements </xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="methodOfExtraction"
      type="CGLenumDOMEXEntityMethodOfExtractionType:CGLenumDOMEXEntityMethodOfExtractionType">
      <xs:annotation>

```



```

        <xs:documentation> Types are Automatic or Manual </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="processingEngine" type="xs:string">
      <xs:annotation>
        <xs:documentation> Engine that extracted the entity (optional).
      </xs:documentation>
    </xs:element>
    <xs:element name="textStartingPosition" type="xs:nonNegativeInteger">
      <xs:annotation>
        <xs:documentation> Character offset from the start of the file.
      </xs:documentation>
    </xs:element>
    <xs:element name="textEndingPosition" type="xs:nonNegativeInteger">
      <xs:annotation>
        <xs:documentation> Character offset from the start of the file.
      </xs:documentation>
    </xs:element>
    <xs:element name="confidenceValue" type="xs:nonNegativeInteger">
      <xs:annotation>
        <xs:documentation> User or machine assigned confidence value.
      </xs:documentation>
    </xs:element>
    <xs:element name="creationDate" type="irm:CombinedDateType">
      <xs:annotation>
        <xs:documentation> Date the Entity was created. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="isVerified" type="xs:boolean">
      <xs:annotation>
        <xs:documentation> Boolean value indicating if a human has verified the entity
is of the type indicated. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="lastModifiedDate" type="irm:CombinedDateType">
      <xs:annotation>
        <xs:documentation> Date the entity was last updated. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="verifiedBy" type="xs:string" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Name of the person who verified the entity.
      </xs:documentation>
    </xs:element>
    <xs:element name="relationship"
      type="RelationshipType"
      minOccurs="0"
      maxOccurs="unbounded">
      <xs:annotation>
```

```

        <xs:documentation> Relationship link between this entity and another entity.
    </xs:documentation>
    </xs:annotation>
</xs:element>
</xs:sequence>
</xs:group>
<xs:group name="namedEntityCommonElements">
    <xs:annotation>
        <xs:documentation> Each Named Entity will have these elements </xs:documentation>
    </xs:annotation>
    <xs:sequence>
        <xs:element name="properName" type="xs:string">
            <xs:annotation>
                <xs:documentation> Extracted from the original source text </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="language"
            type="CVCEnumIRMISO639-3Trigraph:CVCEnumIRMISO639-3Trigraph">
            <xs:annotation>
                <xs:documentation> Language code. </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="translatedName" type="xs:string">
            <xs:annotation>
                <xs:documentation> Equivalent English name (optional) </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="transliteratedName" type="xs:string">
            <xs:annotation>
                <xs:documentation> Latinized representation (optional) </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="location" type="tspi-core:PointType">
            <xs:annotation>
                <xs:documentation> Associated location. Type: Geopoint (optional)
    </xs:documentation>
            </xs:annotation>
        </xs:element>
    </xs:sequence>
</xs:group>
<!-- ***** -->

<!-- Attribute - DESVersion -->

<!-- ***** -->

<xs:attribute name="DESVersion">
    <xs:annotation>
        <xs:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U">The version number of the
specification. This attribute is intended for processing systems to determine
the appropriate versions of Schema, Schematron, and CVE values for validation
and interpretation of an instance document. </xhtml:p>
            <xhtml:p ism:ownerProducer="USA" ism:classification="U">If there are multiple of
```

this attribute specified in an instance document, the first one in document order is the one that will apply to the entire document. Document order is defined in <https://www.w3.org/TR/xpath-datamodel/#document-order>

```

    </xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:pattern value="[0-9]{6}(\.[0-9]{6})?(\-{1,23})?" />
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<!-- ***** -->
```

```
<!-- Some common elements used in various locations throughout schema -->
```

```
<!-- ***** -->
```

```
<xs:complexType name="RelationshipType">
  <xs:annotation>
    <xs:documentation> A relationship captures how entities are related to one another.
    Relationship type has an attribute that captures the broad classification of the
    relationship, such as: Familial, Employment, Student-Alum, Membership, Located,
    Transactions, Communication, Associations The element relatedTo contains the name or
    identification of the related entity and an attribute indicating the more specific
    nature of the broad relationship category. For example, if the broad category is
    "Employment", the nature of the employment could be: Employed by, Is Officer of,
    Works In, Subordinate To, Senior To. </xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="relatedTo">
      <xs:complexType>
        <xs:simpleContent>
          <xs:extension base="xs:string">
            <xs:attribute name="nature"
              type="CVCEnumDOMEXRelationshipNatureType:CVCEnumDOMEXRelationshipNatureType" />
          </xs:extension>
        </xs:simpleContent>
      </xs:complexType>
    </xs:element>
    <xs:element name="startDate" type="irm:CombinedDateType" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Date the relationship began. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="endDate" type="irm:CombinedDateType" minOccurs="0">
      <xs:annotation>
        <xs:documentation> Date the relationship ended. </xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
  <xs:attribute name="type"
    type="CVCEnumDOMEXRelationshipTypeType:CVCEnumDOMEXRelationshipTypeType"
    use="required" />
```

```
</xs:complexType>
<xs:complexType name="AgencyType">
  <xs:sequence>
    <xs:element name="primaryAgency"
      type="CVCEnumUSAgencyAcronym:CVCEnumUSAgencyAcronym"
      minOccurs="1"
      maxOccurs="1">
      <xs:annotation>
        <xs:documentation>
          <xhtml:p ism:ownerProducer="USA" ism:classification="U"> The primary or
high-level agency name.</xhtml:p>
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="subAgency" type="xs:NMTOKEN" minOccurs="0" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>
          <xhtml:p ism:ownerProducer="USA" ism:classification="U"> The subagency
within the agency specified.</xhtml:p>
        </xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="RemarkType">
  <xs:annotation>
    <xs:documentation> Generalized remark element consisting of a remark string with
attached ISM classification attributes. </xs:documentation>
  </xs:annotation>
  <xs:simpleContent>
    <xs:extension base="string4000">
      <xs:attributeGroup ref="irm:SecurityAttributesGroup"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
<xs:simpleType name="UuidType">
  <xs:annotation>
    <xs:documentation> Pattern for checking a UUID. UUID =
00000000-0000-0000-0000-0000000000000000 </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:pattern value="[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{16}"/>
  </xs:restriction>
</xs:simpleType>
<xs:complexType name="HashDigestType">
  <xs:annotation>
    <xs:documentation> Generalized hash element consisting of a string with attached hash
type attribute. </xs:documentation>
  </xs:annotation>
  <xs:simpleContent>
    <xs:extension base="string100">
      <xs:attribute name="type"
        type="CVCEnumDOMEXHashDigestTypeType:CVCEnumDOMEXHashDigestTypeType"
        use="required"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

```

        </xs:extension>
    </xs:simpleContent>
</xs:complexType>
<xs:complexType name="ActivityType">
    <xs:sequence>
        <xs:element name="primaryActivity"
            type="CGLenumDOMEXActivityType:CGLenumDOMEXActivityType"/>
        <xs:element name="subActivity"
            type="xs:string"
            minOccurs="0"
            maxOccurs="unbounded"/>
    </xs:sequence>
</xs:complexType>
<!-- ***** -->

<!-- String length restrictions -->

<!-- ***** -->

<xs:simpleType name="string20">
    <xs:annotation>
        <xs:documentation> Length restricted string </xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:string">
        <xs:maxLength value="20"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="string36">
    <xs:annotation>
        <xs:documentation> Length restricted string </xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:string">
        <xs:maxLength value="36"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="string38">
    <xs:annotation>
        <xs:documentation> Length restricted string </xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:string">
        <xs:maxLength value="38"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="string40">
    <xs:annotation>
        <xs:documentation> Length restricted string </xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:string">
        <xs:maxLength value="40"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="string50">
    <xs:annotation>
        <xs:documentation> Length restricted string </xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:string">
        <xs:maxLength value="50"/>
    </xs:restriction>
</xs:simpleType>
```

```
        </xs:annotation>
        <xs:restriction base="xs:string">
            <xs:maxLength value="50"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:simpleType name="string100">
        <xs:annotation>
            <xs:documentation> Length restricted string </xs:documentation>
        </xs:annotation>
        <xs:restriction base="xs:string">
            <xs:maxLength value="100"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:simpleType name="string150">
        <xs:annotation>
            <xs:documentation> Length restricted string </xs:documentation>
        </xs:annotation>
        <xs:restriction base="xs:string">
            <xs:maxLength value="150"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:simpleType name="string200">
        <xs:annotation>
            <xs:documentation> Length restricted string </xs:documentation>
        </xs:annotation>
        <xs:restriction base="xs:string">
            <xs:maxLength value="200"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:simpleType name="string256">
        <xs:annotation>
            <xs:documentation> Length restricted string </xs:documentation>
        </xs:annotation>
        <xs:restriction base="xs:string">
            <xs:maxLength value="256"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:simpleType name="string300">
        <xs:annotation>
            <xs:documentation> Length restricted string </xs:documentation>
        </xs:annotation>
        <xs:restriction base="xs:string">
            <xs:maxLength value="300"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:simpleType name="string400">
        <xs:annotation>
            <xs:documentation> Length restricted string </xs:documentation>
        </xs:annotation>
        <xs:restriction base="xs:string">
            <xs:maxLength value="400"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:simpleType name="string500">
```

```

        <xs:annotation>
            <xs:documentation> Length restricted string </xs:documentation>
        </xs:annotation>
        <xs:restriction base="xs:string">
            <xs:maxLength value="500"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:simpleType name="string512">
        <xs:annotation>
            <xs:documentation> Length restricted string </xs:documentation>
        </xs:annotation>
        <xs:restriction base="xs:string">
            <xs:maxLength value="512"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:simpleType name="string1000">
        <xs:annotation>
            <xs:documentation> Length restricted string </xs:documentation>
        </xs:annotation>
        <xs:restriction base="xs:string">
            <xs:maxLength value="1000"/>
        </xs:restriction>
    </xs:simpleType>
    <xs:simpleType name="string4000">
        <xs:annotation>
            <xs:documentation> Length restricted string </xs:documentation>
        </xs:annotation>
        <xs:restriction base="xs:string">
            <xs:maxLength value="4000"/>
        </xs:restriction>
    </xs:simpleType>
</xs:schema>
```


2.3 - Identity.xsd

```
<xs:schema xmlns="urn:us:mil:ces:metadata:domex_identity"
    xmlns:Identity="urn:us:mil:ces:metadata:domex_identity"
    xmlns:irm="urn:us:gov:ic:irm"
    xmlns:xs="http://www.w3.org/2001/XMLSchema"
    xmlns:xhtml="http://www.w3.org/1999/xhtml-StopBrowserRendering"
    xmlns:CVEEnumDOMEXLicenseTypeType="urn:us:gov:ic:cvenum:domex:CVEEnumDOMEXLicenseTypeType"
    xmlns:CVEEnumDOMEXMembershipIdentificationTypeType="urn:us:gov:ic:cvenum:domex:CVEEnumDOMEXMembershipIdentificationTypeType"
    xmlns:CVEEnumDOMEXCitizenshipStatusType="urn:us:gov:ic:cvenum:domex:CVEEnumDOMEXCitizenshipStatusType"
    xmlns:CVEEnumDOMEXAffiliationTypeType="urn:us:gov:ic:cvenum:domex:CVEEnumDOMEXAffiliationTypeType"
    xmlns:CVEEnumDOMEXPhysicalAttributeTypeType="urn:us:gov:ic:cvenum:domex:CVEEnumDOMEXPhysicalAttributeTypeType"
    xmlns:CVEEnumDOMEXEducationLevelType="urn:us:gov:ic:cvenum:domex:CVEEnumDOMEXEducationLevelType"
    xmlns:CVEEnumDOMEXEducationDegreeType="urn:us:gov:ic:cvenum:domex:CVEEnumDOMEXEducationDegreeType"
    targetNamespace="urn:us:mil:ces:metadata:domex_identity"
    elementFormDefault="qualified"
    attributeFormDefault="qualified"
    Identity:DESVersion="2"
    ism:compliesWith="USGov USIC"
    ism:resourceElement="true"
    ism:createDate="2019-09-18"
    ism:DESVersion="202111"
    ism:ISMCACTCESVersion="202205"
    ism:classification="U"
    ism:ownerProducer="USA"
    version="202111">
    <xs:annotation>
        <xs:documentation> The "identity" element is the root element for creating
an identity assertion or an identity element within a collection. </xs:documentation>
    </xs:annotation>
    <!-- ***** -->

<!-- IMPORT DEPENDEDNT SCHEMAS -->

<!-- ***** -->

<xs:import namespace="urn:us:gov:ic:ism" schemaLocation="../ISM/IC-ISM.xsd"/>
    <xs:import namespace="urn:us:gov:ic:irm" schemaLocation="../IRM/IC-IRM.xsd"/>
    <xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEEnumDOMEXLicenseTypeType"
        schemaLocation="../CVEGenerated/CVEEnumDOMEXLicenseTypeType.xsd"/>
    <xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEEnumDOMEXMembershipIdentificationTypeType"
        schemaLocation="../CVEGenerated/CVEEnumDOMEXMembershipIdentificationTypeType.xsd"/>
    <xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEEnumDOMEXCitizenshipStatusType"
        schemaLocation="../CVEGenerated/CVEEnumDOMEXCitizenshipStatusType.xsd"/>
    <xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEEnumDOMEXAffiliationTypeType"
        schemaLocation="../CVEGenerated/CVEEnumDOMEXAffiliationTypeType.xsd"/>
    <xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEEnumDOMEXPhysicalAttributeTypeType"
        schemaLocation="../CVEGenerated/CVEEnumDOMEXPhysicalAttributeTypeType.xsd"/>
    <xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEEnumDOMEXEducationLevelType"
        schemaLocation="../CVEGenerated/CVEEnumDOMEXEducationLevelType.xsd"/>
    <xs:import namespace="urn:us:gov:ic:cvenum:domex:CVEEnumDOMEXEducationDegreeType"
        schemaLocation="../CVEGenerated/CVEEnumDOMEXEducationDegreeType.xsd"/>
    <!-- ***** -->
```

```
<!-- Identity element -->

<!-- ***** -->

<xs:element name="identity" ism:classification="U" ism:ownerProducer="USA">
  <xs:annotation>
    <xs:documentation> Describes an Identity in the DOMEX Data Assertion All the information
about a Person. All properties (including name) are allowed to occur 0 to unbounded
times. Note that some of the properties (affiliation, kinship, location) have more
specific sub-properties defined here (such as memberOf, spouse, residence
respectively) which may be used as well. </xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element name="name" type="IdentityNameType">
        <xs:annotation>
          <xs:documentation> Proper Name including Translated Name, Transliterated
Name, Aliases. Includes Honorific Prefix, Given Name, Additional Name,
Family Name, Honorific Suffix. </xs:documentation>
        </xs:annotation>
      </xs:element>
      <!-- artf14828 - Make alias element unbounded -->

      <xs:element name="alias"
        type="IdentityNameType"
        minOccurs="0"
        maxOccurs="unbounded">
        <xs:annotation>
          <xs:documentation> Alias (es) of Subject </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="translatedName" type="IdentityNameType" minOccurs="0">
        <xs:annotation>
          <xs:documentation> English language translation of the name.
        </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="transliteratedName" type="IdentityNameType" minOccurs="0">
        <xs:annotation>
          <xs:documentation> Name transliterated for non-Latin characters.
        </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="dateOfBirth"
        type="string50"
        minOccurs="0"
        maxOccurs="unbounded">
        <xs:annotation>
          <xs:documentation> Date of Birth if Subject is a person. </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="placeOfBirth"
        type="CityStateCountryType"
        minOccurs="0"

```

```

        maxOccurs="unbounded">
        <xs:annotation>
            <xs:documentation> Place of Birth if Subject is a person.
</xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="dateOfDeath"
type="string50"
minOccurs="0"
maxOccurs="unbounded">
        <xs:annotation>
            <xs:documentation> Date of Death if Subject is a person. </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="placeOfDeath"
type="CityStateCountryType"
minOccurs="0"
maxOccurs="unbounded">
        <xs:annotation>
            <xs:documentation> Place of Death if Subject is a person.
</xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="gender"
type="string20"
minOccurs="0"
maxOccurs="unbounded">
        <xs:annotation>
            <xs:documentation> Gender if Subject is a person. </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="occupation"
type="string100"
minOccurs="0"
maxOccurs="unbounded">
        <xs:annotation>
            <xs:documentation> Occupation if Subject is a person. </xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="physicalDescription"
type="PhysicalDescriptionType"
minOccurs="0">
        <xs:annotation>
            <xs:documentation> Physical Description of the person if Subject is a
person. Includes: height, weight, mark, scar, tattoo, other, apparent
physical characteristic description, apparent physical disability, blood
type, build, clothing description, complexion, date of birth, ethnicity,
eye color, eye description, eyewear description, facial hair
description, fingerprint classification, gender, hair color, hair
description, height, height description, race, skin tone, weight.
</xs:documentation>
        </xs:annotation>
    </xs:element>
    <xs:element name="skill"
```

```

    type="string256"
    minOccurs="0"
    maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation> Skill if the Subject is a person. An ability, knowledge,
or capability to perform some activity. Includes an indication of
proficiency. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="phone"
type="string100"
minOccurs="0"
maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation> A telephone number. This value includes country code and
area code when applicable. Includes the original number in the native
language script and also the ASCII representation. Can be the phone
number of a person or organization. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="emailAddress"
type="string256"
minOccurs="0"
maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation> An address for electronic mail. Can be for a person or
organization. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="userId"
type="string100"
minOccurs="0"
maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation> Unique Identifier applied by an agency to an author,
co-author, POC, tasking requester or addressee. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="affiliation"
type="AffiliationType"
minOccurs="0"
maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation> The identification of an organization or agency with
which an individual or service has an affiliation. Includes: is Member
of and is Employed by. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="referenceNumber-ControlId"
type="string256"
minOccurs="0"
maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation> Reference control ID in other Biometric system

```

```
</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="biometricUrl"
    type="xs:anyURI"
    minOccurs="0"
    maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation> List of URLs to this detainee's records in BIR.
    </xs:documentation>
  </xs:element>
  <xs:element name="citizenship"
    type="CitizenshipType"
    minOccurs="0"
    maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation> Information about a Person's citizenship in a Country.
      Includes Country and Status. Status values include Native Born,
      Naturalized, Permanent Resident Alien Applied, and Permanent Resident
      Alien Granted.
    </xs:documentation>
  </xs:element>
  <xs:element name="remark"
    type="RemarkType"
    minOccurs="0"
    maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation> Any remarks concerning the identity
    </xs:documentation>
  </xs:element>
  <xs:element name="education"
    type="EducationType"
    minOccurs="0"
    maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation> A relationship between a person and an institution.
      Attributes include: level of education: Graduated, Undergraduate,
      Primary, Secondary; Degree: AA, BA, BS, DD, DDiv, HS, LLD, MA, MD, MS,
      PhD. Institutions: High School, Post Secondary School.
    </xs:documentation>
  </xs:element>
  <xs:element name="identification"
    type="IdentificationType"
    minOccurs="0"
    maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation> Person has identification. A document which was issued by
      some organization to "identify" the indicated person, indicate some sort
      of affiliation with the organization, usually assign the person an
      identification "number, and perhaps license the person in some capacity.
      Identification types include: License and Membership ID. Attributes
      include: authority, date of issue, date of expiration, issuing country,
```

```
issuing State or Province, issuing Locality, issuing Organization, and
the identified person. </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="isnNumber" type="string50" minOccurs="0">
    <xs:annotation>
      <xs:documentation> Detainee Serial # (DoD) or other control number: TCN,
Case #, IOC Requirement #, LOO Series </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="kinship"
type="string100"
minOccurs="0"
maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation> Any blood or marital relationship between two persons.
</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="location"
type="irm:PlaceType"
minOccurs="0"
maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation> A group of entities used in the DoD Discovery Metadata
Specification postalAddress plus others. Optionally includes Street,
City, State, Province, Postal Code, and Country Code.
</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="medical"
type="string256"
minOccurs="0"
maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation> Details about medical conditions a person has or
experiences. </xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="multimedia"
type="xs:anyURI"
minOccurs="0"
maxOccurs="unbounded">
    <xs:annotation>
      <xs:documentation> A person is represented in the linked Multimedia (image,
video, etc.) URI to linked image. </xs:documentation>
    </xs:annotation>
  </xs:element>
</xs:sequence>
<xs:attribute name="uuid" type="UuidType" use="optional"/>
<!-- ***** -->

<!-- Attribute - DESVersion -->
```

```
<!-- ***** -->

<xs:attribute name="DESVersion" use="optional">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      <xhtml:p ism:ownerProducer="USA" ism:classification="U">The version number
of the specification. This attribute is intended for processing systems
to determine the appropriate versions of Schema, Schematron, and CVE
values for validation and interpretation of an instance document. </xhtml:p>
      <xhtml:p ism:ownerProducer="USA" ism:classification="U">If there are
multiple of this attribute specified in an instance document, the first
one in document order is the one that will apply to the entire document.
Document order is defined in <xhtml:a href="https://www.w3.org/TR/xpath-datamodel/#document-order">https://www.w3.org/TR/xpath-datamodel/#document-order</xhtml:a>
      </xhtml:p>
    </xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:pattern value="[0-9]{6}(\.[0-9]{6})?(\-{1,23})?" />
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
</xs:complexType>
</xs:element>
<xs:complexType name="IdentityNameType">
  <xs:sequence>
    <xs:element name="honorificPrefix"
      type="string50"
      minOccurs="0"
      maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation> Prefix to a name such as Dr. Mr. Mrs., etc.
      </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="givenName"
      type="string50"
      minOccurs="0"
      maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation> Individual's given name, in English, the "first" name.
      </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="additionalName"
      type="string50"
      minOccurs="0"
      maxOccurs="unbounded">
      <xs:annotation>
        <xs:documentation> Any additional names such as middle name. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="familyName"
      type="string50"
```



```

        minOccurs="0"
        maxOccurs="unbounded">
        <xs:annotation>
        <xs:documentation> The individual's family name, in English, the "last" name.
    </xs:documentation>
    </xs:annotation>
</xs:element>
<xs:element name="honorificSuffix"
    type="string50"
    minOccurs="0"
    maxOccurs="unbounded">
    <xs:annotation>
    <xs:documentation> Any suffix to a name such as Jr., III, Esq., etc.
</xs:documentation>
    </xs:annotation>
</xs:element>
</xs:sequence>
</xs:complexType>
<!-- artf14829 - Change place of birth/death to a city/state/country location -->

<xs:complexType name="CityStateCountryType">
    <xs:annotation>
    <xs:documentation> City, State, Country construct (not address) for place of birth or
death. </xs:documentation>
    </xs:annotation>
    <xs:sequence>
        <xs:element name="city" type="xs:string" minOccurs="0">
            <xs:annotation>
            <xs:documentation> City of birth or death </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="state" type="xs:string" minOccurs="0">
            <xs:annotation>
            <xs:documentation> State, Province or other geopolitical equivalent of birth or
death </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="country"
            type="irm:CompoundCountryCodeIdentifierType"
            minOccurs="0">
            <xs:annotation>
            <xs:documentation> Country of birth or death </xs:documentation>
            </xs:annotation>
        </xs:element>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="PhysicalDescriptionType">
    <xs:annotation>
    <xs:documentation> Physical Description of the person if Subject is a person. Includes:
height, weight, mark, scar, tattoo, other, apparent physical characteristic
description, apparent physical disability, blood type, build, clothing description,
complexion, date of birth, ethnicity, eye color, eye description, eyewear
description, facial hair description, fingerprint classification, gender, hair
color, hair description, height, height description, race, skin tone, weight.
```

```
</xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="physicalAttribute"
      type="PhysicalAttributeType"
      maxOccurs="unbounded" />
  </xs:sequence>
</xs:complexType>
<xs:complexType name="PhysicalAttributeType">
  <xs:simpleContent>
    <xs:extension base="string256">
      <xs:attribute name="type"
        type="CVCEnumDOMEXPhysicalAttributeTypeType:CVCEnumDOMEXPhysicalAttributeTypeType"
        use="required" />
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
<xs:complexType name="AffiliationType">
  <xs:annotation>
    <xs:documentation> The identification of an organization or agency with which an
individual or service has an affiliation. Includes: is Member of and is Employed by.
  </xs:documentation>
  </xs:annotation>
  <xs:simpleContent>
    <xs:extension base="string512">
      <xs:attribute name="type"
        type="CVCEnumDOMEXAffiliationTypeType:CVCEnumDOMEXAffiliationTypeType"
        use="required" />
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
<xs:complexType name="CitizenshipType">
  <xs:annotation>
    <xs:documentation> Information about a Person's citizenship in a Country. Includes
Country and Status. Status values include Native Born, Naturalized, Permanent
Resident Alien Applied, and Permanent Resident Alien Granted. </xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="country" type="irm:CompoundCountryCodeIdentifierType">
      <xs:annotation>
        <xs:documentation> Person's citizenship in a Country. </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="status"
      type="CVCEnumDOMEXCitizenshipStatusType:CVCEnumDOMEXCitizenshipStatusType">
      <xs:annotation>
        <xs:documentation> Status values include Native Born, Naturalized, Permanent
Resident Alien Applied, and Permanent Resident Alien Granted.
      </xs:documentation>
    </xs:annotation>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="EducationType">
```

```

        <xs:annotation>
            <xs:documentation> A relationship between a person and an institution. Attributes
include: level of education: Graduated, Undergraduate, Primary, Secondary; Degree:
AA, BA, BS, DD, DDiv, HS, LLD, MA, MD, MS, PhD. Institutions: High School, Post
Secondary School. </xs:documentation>
        </xs:annotation>
        <xs:sequence>
            <xs:element name="level"
                type="CVCEnumDOMEXEducationLevelType:CVCEnumDOMEXEducationLevelType">
                <xs:annotation>
                    <xs:documentation> Graduated, Undergraduate, Primary, Secondary
                </xs:documentation>
            </xs:element>
            <xs:element name="degree"
                type="CVCEnumDOMEXEducationDegreeType:CVCEnumDOMEXEducationDegreeType">
                <xs:annotation>
                    <xs:documentation> Degree(s) attained - AA, BA, BS, DD, DDiv, HS, LLD, MA, MD,
MS, PhD </xs:documentation>
                </xs:annotation>
            </xs:element>
            <xs:element name="institution" type="string100">
                <xs:annotation>
                    <xs:documentation> Status values include Native Born, Naturalized, Permanent
Resident Alien Applied, and Permanent Resident Alien Granted.
                </xs:documentation>
            </xs:element>
        </xs:sequence>
    </xs:complexType>
    <xs:complexType name="IdentificationType">
        <xs:annotation>
            <xs:documentation> Person has identification. A document which was issued by some
organization to "identify" the indicated person, indicate some sort of affiliation
with the organization, usually assign the person an identification "number, and
perhaps license the person in some capacity. Identification types include: License
and Membership ID. Attributes include: authority, date of issue, date of expiration,
issuing country, issuing State or Province, issuing Locality, issuing Organization,
and the identified person. </xs:documentation>
        </xs:annotation>
        <xs:choice>
            <xs:element name="license" type="LicenseType"/>
            <xs:element name="membershipID" type="MembershipIdType"/>
        </xs:choice>
    </xs:complexType>
    <xs:complexType name="LicenseType">
        <xs:sequence>
<!-- artf14838 - Add idNumber element -->

        <xs:element name="idNumber" type="xs:string" minOccurs="0"/>
        <xs:element name="authority" type="xs:string" minOccurs="0"/>
        <xs:element name="isLostOrStolen" type="xs:boolean" minOccurs="0"/>
        <xs:element name="isAuthentic" type="xs:boolean" minOccurs="0"/>
        <xs:element name="dateOfIssue" type="xs:date" minOccurs="0"/>

```

```

        <xs:element name="dateOfExpiration" type="xs:date" minOccurs="0"/>
        <xs:element name="issuingCountry"
            type="irm:CompoundCountryCodeIdentifierType"
            minOccurs="0"/>
        <xs:element name="issuingStateOrProvince" type="xs:string" minOccurs="0"/>
        <xs:element name="issuingLocality" type="xs:string" minOccurs="0"/>
        <xs:element name="issuingOrganization" type="xs:string" minOccurs="0"/>
        <xs:element name="identifiedPerson" type="xs:string" minOccurs="0"/>
        <!-- artf14839 - Add destination country element for visas and passports -->

    <xs:element name="destinationCountry"
        type="irm:CompoundCountryCodeIdentifierType"
        minOccurs="0"/>
    </xs:sequence>
    <xs:attribute name="type"
        type="CEnumDOMEXLicenseTypeType:CEnumDOMEXLicenseTypeType"
        use="required"/>
</xs:complexType>
<xs:complexType name="MembershipIdType">
    <xs:annotation>
        <xs:documentation> Captures a membership relationship between a Person and an
        Organization. The list of membership relationship types are: Is a Member Of
    </xs:documentation>
    </xs:annotation>
    <xs:sequence>
        <xs:element name="issueOrgainzation" type="xs:string"/>
    </xs:sequence>
    <xs:attribute name="type"
        type="CEnumDOMEXMembershipIdentificationTypeType:CEnumDOMEXMembershipIdentificationTypeType"
        use="required"/>
</xs:complexType>
<xs:simpleType name="string10">
    <xs:annotation>
        <xs:documentation> Length restricted string </xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:string">
        <xs:maxLength value="10"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="string20">
    <xs:annotation>
        <xs:documentation> Length restricted string </xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:string">
        <xs:maxLength value="20"/>
    </xs:restriction>
</xs:simpleType>
<xs:simpleType name="string100">
    <xs:annotation>
        <xs:documentation> Length restricted string </xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:string">
        <xs:maxLength value="100"/>
    </xs:restriction>

```

```

</xs:simpleType>
<xs:simpleType name="string50">
  <xs:annotation>
    <xs:documentation> Length restricted string </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:maxLength value="50"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="string256">
  <xs:annotation>
    <xs:documentation> Length restricted string </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:maxLength value="256"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="string512">
  <xs:annotation>
    <xs:documentation> Length restricted string </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:maxLength value="512"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="string4000">
  <xs:annotation>
    <xs:documentation> Length restricted string </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:maxLength value="4000"/>
  </xs:restriction>
</xs:simpleType>
<xs:complexType name="RemarkType">
  <xs:annotation>
    <xs:documentation> Generalized remark element consisting of a remark string with
attached ISM classification attributes. </xs:documentation>
  </xs:annotation>
  <xs:simpleContent>
    <xs:extension base="string4000">
      <xs:attributeGroup ref="ism:SecurityAttributesGroup"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
<xs:simpleType name="UuidType">
  <xs:annotation>
    <xs:documentation> Pattern for checking a UUID. UUID =
00000000-0000-0000-0000000000000000 </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:pattern value="[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{16}"/>
  </xs:restriction>
</xs:simpleType>
</xs:schema>

```

2.4 - SchemaGuideSchema.xsd

```
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
            xmlns:xhtml="http://www.w3.org/1999/xhtml-StopBrowserRendering"
            xmlns:irm="urn:us:gov:ic:irm"
            attributeFormDefault="qualified"
            ism:compliesWith="USGov USIC"
            ism:resourceElement="true"
            ism:createDate="2019-09-18"
            ism:DESVersion="202111"
            ism:ISMCAICESVersion="202205"
            ism:classification="U"
            ism:ownerProducer="USA"
            version="202111"
            elementFormDefault="qualified"
            targetNamespace="urn:schema:guide:schema:irm"
            xml:lang="en">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:h1 ism:ownerProducer="USA" ism:classification="U">Intelligence Community
Technical Specification XML Data Encoding Specification for DOcument and Media
EXploitation (DOMEX.XML) SchemaGuide</xhtml:h1>
    </xsd:documentation>
    <xsd:documentation>
      <xhtml:h2 ism:ownerProducer="USA" ism:classification="U">Notices</xhtml:h2>
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Distribution Notice:
This document has been approved for Public Release and is available for use without restriction.

    </xhtml:p>
    </xsd:documentation>
    <xsd:documentation>
      <xhtml:h2 ism:ownerProducer="USA" ism:classification="U">Description</xhtml:h2>
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> This W3C XML Schema is an
implementation of the DOMEX assertion.</xhtml:p>
    </xsd:documentation>
    <xsd:documentation>
      <xhtml:h2 ism:ownerProducer="USA" ism:classification="U">Introduction</xhtml:h2>
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> This XML Schema file is only
used to produce the schemaGuide for the XML Data Encoding Specification (DES).
Please see the document titled <xhtml:i>
      <xhtml:a href="../../Documents/DOMEX/DesDomexXml.pdf">XML Data Encoding
Specification for DOcument and Media EXploitation</xhtml:a>
      </xhtml:i> for a complete description of the encoding as well as list of all
components. </xhtml:p>
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> It is envisioned that this
schema or its components, as well as other parts of the DES may be overridden for
localized implementations. Therefore, permission to use, copy, modify and distribute
this XML Schema and the other parts of the DES for any purpose is hereby granted in
perpetuity. </xhtml:p>
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Please reference the preceding
two paragraphs in all copies or variations. The developers make no representation
about the suitability of the schema or DES for any purpose. It is provided "as is"
without expressed or implied warranty. </xhtml:p>
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> If you modify this XML Schema
```



```
in any way label your schema as a variant of DOMEX.XML. </xhtml:p>
  <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Please direct all questions,
bug reports,or suggestions for changes to the points of contact identified in the
document referenced above. </xhtml:p>
</xsd:documentation>
<xsd:documentation>
  <xhtml:h2 ism:ownerProducer="USA" ism:classification="U">Implementation Notes</xhtml:h2>
  <xhtml:p ism:ownerProducer="USA" ism:classification="U">The document element for a
DOMEX.XML document is <xhtml:a href="DOMEX_xsd_Element_acquisition.html#acquisition">domex:acquisition</xhtml:a>. A DOMEX.XML instance is an instance of a TDO with
particular payload and assertions. Its structure is similar to:</xhtml:p>
  <xhtml:ul>
    <xhtml:p ism:ownerProducer="USA" ism:classification="U">A <xhtml:a href="IC-TDF_xsd_Element_TrustedDataObject.html#TrustedDataObject">
tdf:TrustedDataObject</xhtml:a>
    </xhtml:p>
    <xhtml:ul>
      <xhtml:li ism:ownerProducer="USA" ism:classification="U">has an assertion
      <xhtml:a href="DOMEX_xsd_Element_acquisition.html#acquisition">domex:acquisition</xhtml:a>
      </xhtml:li>
      <xhtml:li ism:ownerProducer="USA" ism:classification="U">has an assertion
      <xhtml:a href="IC-IRM_xsd_Element_irm_ICResourceMetadataPackage.html#ICResourceMetadataPackage"> irm:ICResourceMetadataPackage</xhtml:a>
      </xhtml:li>
    </xhtml:ul>
  </xhtml:ul>
  <xhtml:p ism:ownerProducer="USA" ism:classification="U">The document elements for DOMEX
are <xhtml:a href="DOMEX_xsd_Element_domex.html#domex">domex:domex</xhtml:a>,
  <xhtml:a href="Identity_xsd_Element_identity.html#identity">Identity:identity</xhtml:a>, and
  <xhtml:a href="CellexReport_xsd_Element_cr_cellexReport.html#cellexReport">cr:cellexReport</xhtml:a>.
</xhtml:p>
</xsd:documentation>
<xsd:documentation>
  <xhtml:h2 ism:ownerProducer="USA" ism:classification="U">Creators</xhtml:h2>
  <xhtml:p ism:ownerProducer="USA" ism:classification="U">Office of the Director of
National Intelligence Intelligence Community Chief Information Officer</xhtml:p>
</xsd:documentation>
</xsd:annotation>
  <!-- Import the schema for each "dependent" spec. This schema is only used to generate a SchemaGuide -->

<xsd:import namespace="urn:us:mil:ces:metadata:domex" schemaLocation="DOMEX.xsd"/>
  <xsd:import namespace="urn:us:mil:ces:metadata:domex_identity"
    schemaLocation="Identity.xsd"/>
  <xsd:import namespace="urn:CellexReport" schemaLocation="CellexReport.xsd"/>

  <!-- IRM schema because that is the main spec -->

<xsd:import namespace="urn:us:gov:ic:irm" schemaLocation="../../../IRM/IC-IRM.xsd"/>

  <!-- TDF schema because an IRM goes inside a TDO now -->

<xsd:import namespace="urn:us:gov:ic:tdf" schemaLocation="../../../IC-TDF/IC-TDF.xsd"/>

  <!-- DDMS v5 schema because IRM requires a peer DDMS v5 assertion
<xsd:import namespace="urn:us:mil:ces:metadata:ddms:5" schemaLocation="../../DDMS/DDMS-v5.xsd"/>-->

</xsd:schema>
```