



Guide to Schemas for IRM

IRM Schema Guide

Version 2021-NOV

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Table of Contents

Chapter 1 - Introduction	1
1.1 - Purpose	1
Chapter 2 - Schema Files	2
2.1 - IC-IRM.xsd	2
2.2 - SchemaGuideSchema.xsd	91

Chapter 1 - Introduction

1.1 - Purpose

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

Chapter 2 - Schema Files

2.1 - IC-IRM.xsd

```
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
            xmlns:irm="urn:us:gov:ic:irm"
            xmlns:usagency="urn:us:gov:ic:usagency"
            xmlns:intdis="urn:us:gov:ic:intdis"
            xmlns:mime="urn:us:gov:ic:mime"
            xmlns:icid="urn:us:gov:ic:id"
            xmlns:icgenc="urn:us:gov:ic:icgenc"
            xmlns:tspi="http://metadata.ces.mil/mdr/ns/GSIP/tspi/2.0"
            xmlns:virt="urn:us:gov:ic:virt"
            xmlns:xhtml="http://www.w3.org/1999/xhtml-StopBrowserRendering"
            targetNamespace="urn:us:gov:ic:irm"
            xml:lang="en"
            ism:DESVersion="202111"
            ism:ISMATCESVersion="202205"
            ism:createDate="2012-09-19"
            ism:resourceElement="true"
            ism:classification="U"
            ism:ownerProducer="USA"
            version="202111"
            attributeFormDefault="qualified"
            elementFormDefault="qualified"
            ism:compliesWith="USGov">

    <xsd:annotation>
        <xsd:documentation>
            <xhtml:h1 ism:ownerProducer="USA" ism:classification="U">Intelligence Community
Technical Specification XML Data Encoding Specification for Information Resource
Metadata (IRM.XML)</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:
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        </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"> W3C XML Schema for the XML Data
Encoding Specification Intelligence Community Metadata Standard for Information
Resource Metadata (IRM.XML). </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 one
component of the XML Data Encoding Specification (DES). Please see the document
titled <xhtml:i>
```

```

    <xhtml:a href="../../../Documents/IRM/DesIrmXml.pdf">XML Data Encoding
Specification for Information Resource Metadata</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 IRM.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">A IRM.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="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 element for IRM is
<xhtml:a href="IC-IRM_xsd_Element_irm_ICResourceMetadataPackage.html">irm:ICResourceMetadataPackage</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:documentation>
  <xhtml:div ism:DESVersion="202111"
    ism:ISMCAICESVersion="202205"
    ism:resourceElement="true"
    ism:compliesWith="USGov USIC"
    ism:createDate="2019-03-01"
    ism:classification="U"
    ism:ownerProducer="USA"
    data-ded="ded:DataElementDictionary">
    <xhtml:p ism:ownerProducer="USA"
      ism:classification="U"
```

```

        data-ded="ded:DedTitle">ded:DedTitle: Data Element Dictionary XML </xhtml:p>
    <xhtml:p ism:ownerProducer="USA"
        ism:classification="U"
        data-ded="ded:DedPurpose">ded:DedPurpose: The DED for IRM
describes the Elements for Information Resource Metadata</xhtml:p>
    <xhtml:p ism:ownerProducer="USA"
        ism:classification="U"
        data-ded="ded:DedShortName">ded:DedShortName: IRM-DED.XML</xhtml:p>
    <xhtml:p ism:ownerProducer="USA"
        ism:classification="U"
        data-ded="ded:DedVersion">ded:DedVersion: 2021-NOV</xhtml:p>
    <xhtml:p ism:ownerProducer="USA"
        ism:classification="U"
        data-ded="ded:DedDate">ded:DedDate: 2019-03-01T00:00:00Z</xhtml:p>
    <xhtml:p ism:ownerProducer="USA" ism:classification="U" data-ded="ded:DedId">ded:DedId: guide://2020/Fixme</xhtml:p>
    <xhtml:p ism:ownerProducer="USA"
        ism:classification="U"
        data-ded="ded:DedResponsibleAgency">ded:DedResponsibleAgency: DNI</xhtml:p>
    <xhtml:p ism:ownerProducer="USA"
        ism:classification="U"
        data-ded="ded:DedPoc">ded:DedPoc: ic-standards-support@odni.gov</xhtml:p>
    <xhtml:p ism:ownerProducer="USA"
        ism:classification="U"
        data-ded="ded:DedDistroStatement">ded:DedDistroStatement:
Distribution Notice:
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</xhtml:p>
    <xhtml:p ism:ownerProducer="USA"
        ism:classification="U"
        data-ded="ded:DedSubjectType">ded:DedSubjectType: XML</xhtml:p>
</xhtml:div>
</xsd:documentation>

</xsd:annotation>

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

<!--Start Import Statements-->

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

<!-- Import dependent specifications -->

<xsd:import namespace="urn:us:gov:ic:id" schemaLocation="../IC-ID/IC-ID.xsd"/>
    <xsd:import namespace="urn:us:gov:ic:usagency"
        schemaLocation="../USAgency/USAgency.xsd"/>
    <xsd:import namespace="urn:us:gov:ic:intdis"
        schemaLocation="../INTDIS/IntelDiscipline.xsd"/>
    <xsd:import namespace="urn:us:gov:ic:mime" schemaLocation="../MIME/MIME.xsd"/>
    <xsd:import namespace="urn:us:gov:ic:icgenc"
        schemaLocation="../IC-GENC/IC-GENC.xsd"/>
    <xsd:import namespace="urn:us:gov:ic:ism" schemaLocation="../ISM/IC-ISM.xsd"/>
    <xsd:import namespace="urn:us:gov:ic:virt" schemaLocation="../VIRT/VIRT.xsd"/>
    <xsd:import namespace="http://www.w3.org/1999/xlink"
```

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        schemaLocation="../../w3/1999/xlink/xlink.xsd"/>
<xsd:import namespace="http://metadata.ces.mil/mdr/ns/GSIP/tspi/2.0"
        schemaLocation="../../tspi/2.0.0/tspi.xsd"/>

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

<!--End Import Statements-->

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

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

<!--      Root Element(s) Definition      -->

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

<xsd:element name="ICResourceMetadataPackage" type="irm:ICResourceMetadataType">
    <xsd:annotation>
        <xsd:documentation>
            <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategoryDescription">ded:CategoryDescription: The top-level
element of a IRM assertion within a tdf:TrustedDataObject metadata card with its
amplifying attributes.</xhtml:p>
            <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategorySource">ded:CategorySource: DoD 5200.1-R; EO
12958</xhtml:p>
            <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategoryComment">ded:CategoryComment: This category consists of
the top-level element, resource, and its attributes which contains metadata
about a described data asset. Child elements are addressed by other IRM
categories. The mandatory ICResourceMetadataPackage element is the root of the
whole IRM assertion, which is intended to be included in a TDO-structured
metadata card.</xhtml:p>
            <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">ded:Definition: The root element of an IRM information set, it contains the
encoding specification versions for IRM and the specifications it directly
imports. The top-level element that contains all IRM information about a
described data asset as well as information about the IRM
ICResourceMetadataPackage (this record).</xhtml:p>
            <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Mandatory)</xhtml:p>
            <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">ded:Comment: An IRM resource describes a data asset and also contains metadata
describing the IRM resource (metadata card).</xhtml:p>
        </xsd:documentation>
    </xsd:annotation>

```



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</xsd:element>

<xsd:complexType name="ICResourceMetadataType">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategoryDescription">ded:CategoryDescription: The top-level
element of a IRM assertion within a tdf:TrustedDataObject metadata card with its
amplifying attributes.</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategorySource">ded:CategorySource: DoD 5200.1-R; EO
12958</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategoryComment">ded:CategoryComment: This category consists of
the top-level element, resource, and its attributes which contains metadata
about a described data asset. Child elements are addressed by other IRM
categories. The mandatory ICResourceMetadataPackage element is the root of the
whole IRM assertion, which is intended to be included in a TDO-structured
metadata card.</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">ded:Definition: The root element of an IRM information set, it contains the
encoding specification versions for IRM and the specifications it directly
imports. The top-level element that contains all IRM information about a
described data asset as well as information about the IRM
ICResourceMetadataPackage (this record).</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Mandatory)</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">ded:Comment: An IRM resource describes a data asset and also contains metadata
describing the IRM resource (metadata card).</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:element ref="irm:metacardInfo" maxOccurs="1"/>
    <xsd:element ref="irm:identifier" maxOccurs="unbounded"/>
    <xsd:element ref="irm:title" maxOccurs="unbounded"/>
    <xsd:element ref="irm:subtitle" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element ref="irm:description" minOccurs="0"/>
    <xsd:element ref="irm:language" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element ref="irm:dates" minOccurs="0"/>
    <xsd:element ref="irm:rights" minOccurs="0"/>
    <xsd:element ref="irm:source" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element ref="irm:type" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:choice maxOccurs="unbounded">
      <xsd:element ref="irm:creator" maxOccurs="unbounded"/>
      <xsd:element ref="irm:publisher" maxOccurs="unbounded"/>
      <xsd:element ref="irm:contributor" maxOccurs="unbounded"/>
      <xsd:element ref="irm:pointOfContact" maxOccurs="unbounded"/>
    </xsd:choice>
  </xsd:sequence>
</xsd:complexType>
```

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        </xsd:choice>
        <xsd:element ref="irm:format" minOccurs="0"/>
        <xsd:element ref="irm:subjectCoverage" maxOccurs="unbounded"/>
        <xsd:element ref="irm:virtualCoverage" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element ref="irm:temporalCoverage" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element ref="irm:geospatialCoverage" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element ref="irm:relatedResource" minOccurs="0" maxOccurs="unbounded"/>
        <xsd:element ref="irm:resourceManagement" minOccurs="0" maxOccurs="1"/>
    </xsd:sequence>
    <xsd:attribute ref="irm:compliesWith" use="required"/>
    <xsd:attributeGroup ref="irm:IRMRootNodeAttributeGroup"/>
</xsd:complexType>

<xsd:attributeGroup name="IRMRootNodeAttributeGroup">
    <xsd:annotation>
        <xsd:documentation>
            <xhtml:p ism:ownerProducer="USA" ism:classification="U">
                The root node attribute group.
            </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:attribute ref="irm:DESVersion" use="required"/>
    <xsd:attribute ref="icid:DESVersion" use="optional"/>
    <xsd:attribute ref="usagency:CESVersion" use="optional"/>
    <xsd:attribute ref="intdis:CESVersion" use="optional"/>
    <xsd:attribute ref="mime:CESVersion" use="optional"/>
    <xsd:attribute ref="icgenc:CESVersion" use="optional"/>
    <xsd:attribute ref="ism:DESVersion" use="optional"/>
    <xsd:attribute ref="ism:ISMCACTCESVersion" use="optional"/>
    <xsd:attribute ref="virt:DESVersion" use="optional"/>
</xsd:attributeGroup>

<xsd:attribute name="DESVersion">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> The version number of the
DES </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleType>
        <xsd:restriction base="xsd:string">
            <xsd:pattern value="[0-9]{6}(\.[0-9]{6})?(\-.{1,23})?" />
        </xsd:restriction>
    </xsd:simpleType>
</xsd:attribute>

<xsd:attribute name="compliesWith" type="irm:ListOfRegexTokensType">
    <xsd:annotation>
        <xsd:documentation>
            <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">ded:Definition: An attribute of ICResourceMetadataPackage that identifies the
schematron rule set that the assertion satisfies.</xhtml:p>
            <xhtml:p ism:classification="U"

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        ism:ownerProducer="USA"
        data-ded="ded:Obligation">ded:Obligation: (Mandatory)</xhtml:p>
    <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Comment">ded:Comment: This is a string that can be used by implementors to specify the
schematron rules set to be used in validating the content of the IRM
assertion.</xhtml:p>
    </xsd:documentation>
</xsd:annotation>
</xsd:attribute>

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

<!--      Element Definitions      -->

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

<xsd:element name="affiliation" type="irm:simpleTokenType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Definition">ded:Definition: An element within service, unknown,
person that contains the identification of an organization or community with
which an individual has an affiliation. The identification of an organization or
agency with which an individual, service, or unknown producer has an
affiliation.</xhtml:p>
                <xhtml:p ism:classification="U"
                    ism:ownerProducer="USA"
                    data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
                <xhtml:p ism:classification="U"
                    ism:ownerProducer="USA"
                    data-ded="ded:Comment">ded:Comment: This could be an abbreviation for a community or organization.
There is no maximum number of affiliation elements.</xhtml:p>
            </xsd:documentation>
        </xsd:annotation>
    </xsd:element>

<!--      Models a TSPI compliant bounding geometry.  See ISO 19115 EX_BoundingPolygon.  -->

<xsd:element name="boundingGeometry" type="irm:BoundingGeometryType">
    <xsd:annotation>
        <xsd:documentation>
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"/>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Definition">ded:Definition: An element under geospatialCoverage for child elements used to
express a geographic location as one or more points (using coordinates) or one
or more polygons (a set of connected coordinates). Models a TSPI compliant
bounding geometry. See TSPI 2.0 Polygon. Developer's Note: It is recommended
that the srsName attribute be populated on a gml:Point or gml:Polygon element
within the IRM. Recommended values for the attribute are:</xhtml:p>
            <xhtml:ul>
                <!-- These Coordinate Reference System references are registered in the GSIP Governance Namespace on the DoD Metadata Registry. -->
            </xhtml:ul>
        </xsd:documentation>
    </xsd:annotation>
</xsd:element>

```

```

<xhtml:li ism:ownerProducer="USA" ism:classification="U">
  <xhtml:a href="http://metadata.dod.mil/mdr/ns/GSIP/crs/WGS84C_3D">
    http://metadata.dod.mil/mdr/ns/GSIP/crs/WGS84C_3D</xhtml:a> representing
    World Geodetic System 1984 - Earth Centered, Earth Fixed (ECEF), where the X
    axis is mass center - equator/prime meridian, and the units are meters; the
    Y axis is mass center - equator/90° E, and the units are meters; and the Z
    axis is mass center - North Pole, and the units are meters. OR </xhtml:li>
  <xhtml:li ism:ownerProducer="USA" ism:classification="U">
    <xhtml:a href="http://metadata.dod.mil/mdr/ns/GSIP/crs/WGS84E_2D">
      http://metadata.dod.mil/mdr/ns/GSIP/crs/WGS84E_2D</xhtml:a>representing
      World Geodetic System 1984 - Geographic, 2-Dimensional, where latitude is
      north positive, measured in degrees; and longitude is east positive, measured
      in degrees. OR </xhtml:li>
    <xhtml:li ism:ownerProducer="USA" ism:classification="U">
      <xhtml:a href="http://metadata.dod.mil/mdr/ns/GSIP/crs/WGS84E_3D">
        http://metadata.dod.mil/mdr/ns/GSIP/crs/WGS84E_3D</xhtml:a>representing
        World Geodetic System 1984 - Geographic, 3-Dimensional, where latitude is
        north positive, measured in degrees; and longitude is east positive, measured
        in degrees; and height is height above ellipsoid, measured in meters. See
        also: <xhtml:a href="http://earth-info.nga.mil/GandG/publications/tr8350.2/tr8350_2.html.">
          http://earth-info.nga.mil/GandG/publications/tr8350.2/tr8350_2.html</xhtml:a>
        For gml:pos elements populating the
        gml:Polygon/gml:exterior/gml:LinearRing/gml:pos element the following
        guidance should be followed: <xhtml:ul>
          <xhtml:li ism:ownerProducer="USA" ism:classification="U">1. Latitude
            shall be in decimal degrees in the range -90° less than or equal to
            latitude greater than or equal to +90°.</xhtml:li>
          <xhtml:li ism:ownerProducer="USA" ism:classification="U">2. North
            latitudes shall be positive, south latitudes shall be
            negative.</xhtml:li>
          <xhtml:li ism:ownerProducer="USA" ism:classification="U">3.Longitude
            shall be in decimal degrees in the range -180° less than or equal to
            longitude greater than or equal to +180°; note that there are two
            equally acceptable values of longitude for the meridian opposite the
            prime meridian.</xhtml:li>
          <xhtml:li ism:ownerProducer="USA" ism:classification="U">4. East
            longitudes shall be positive, west longitudes shall be negative. 5.
            Only the element gml:pos shall be used to encode a geographic point
            location as either:</xhtml:li>
          <xhtml:ul>
            <xhtml:li ism:ownerProducer="USA" ism:classification="U">a. two
              decimal values in the order of latitude then longitude (no
              commas) when WGS84E_2D, or</xhtml:li>
            <xhtml:li ism:ownerProducer="USA" ism:classification="U">b. three
              decimal values in the order latitude, longitude and finally
              height above ellipsoid (no commas) when using the WGS84E_3D
              CRS.</xhtml:li>
          </xhtml:ul>
        </xhtml:ul>
      </xhtml:li>
    <xhtml:li ism:ownerProducer="USA" ism:classification="U">Developer's Note: The
      srsName attribute is required on the Polygon element. The Polygon/@srsName
      is the identifier for the CRS which is controlling for the child gml:pos

```

elements. It is important to note that the srsName attribute may also appear on the gml:pos elements, however given the current allowable CRSs above there is no need to repeat the information on the gml:pos elements thus the srsName attribute is optional and not required. If the srsName does appear on the gml:pos elements then it must be the same as the value of the srsName attribute on the Polygon element.

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</xhtml:li>
</xhtml:ul>
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Conditional) geospatialCoverage must have at least one of
geographicIdentifier, boundingGeometry, or postalAddress.</xhtml:p>
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">ded:Comment: This element must contain at least one element (tspi:Polygon,
tspi:Point, tspi:Envelope, tspi:Circle, or tspi:Ellipse). The schema permits an
unbounded number of boundingGeometry elements, and each boundingGeometry element
can have an unbounded number of geometry elements. This element must also be
used in instances where a bounding polygon is to be specified using a Coordinate
Reference System other than WGS-84. The currently acceptable Coordinate
Reference Systems are: (1) World Geodetic System 1984 - Earth Centered, Earth
Fixed (ECEF), identified by the URI:
"http://metadata.dod.mil/mdr/ns/GSIP/crs/WGS84C_3D". (2) World Geodetic System
1984 - Geographic, 2-Dimensional, identified by the URI:
"http://metadata.dod.mil/mdr/ns/GSIP/crs/WGS84_2D". (3) World Geodetic system
1984 - Geographic, 3-Dimensional, identified by the URI:
"http://metadata.dod.mil/mdr/ns/GSIP/crs/WGS84_3D". These URI values are the
values to be populated in the srsName attribute of the tspi:Point and
tspi:Polygon elements. Details for the structure and encoding of these elements
are detailed in the TSPI specification.</xhtml:p>
</xsd:documentation>
</xsd:annotation>
</xsd:element>

<xsd:element name="category" type="irm:CompoundCategoryIdentifierType">
<xsd:annotation>
<xsd:documentation>
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">ded:Definition: An element under the subjectCoverage element that specifies the
subject matter by a qualified entry from a controlled vocabulary. Specification
of the subject matter by a qualified entry from a controlled vocabulary. See IRM
Spec Category: Subject.</xhtml:p>
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Conditional) Mandatory to have at least one of category or
keyword.</xhtml:p>
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">ded:Comment: The number of category elements that can be included in the
subjectCoverage element is unbounded. When there are more than one category
element the additional category entries must occur before any keyword elements.
The category element can be marked according to SMP guidelines.</xhtml:p>
</xsd:documentation>
</xsd:annotation>

```

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</xsd:element>

<xsd:element name="contributor" type="irm:ContactInfoType">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategoryDescription">ded:CategoryDescription: Information about an
organization, person, or entity, which contributed intellectual content to a
resource, other than the publishing organization.</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategorySource">ded:CategorySource: DCMI: contributor, v.
004</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategoryComment">ded:CategoryComment: This category consists of
one element. Examples of a contributor include a person, an organization, an
entity, a service, or unknown. There is no maximum number of contributor
elements in a ICResourceMetadataPackage, where it indicates a contributor to a
described data asset. ICResourceMetadataPackage can optionally include one or
more contributor elements when other creator, publisher, or pointOfContact
elements exist. There is no maximum number of contributor elements in a
metacardInfo, where it indicates a contributor to a metadata card. metacardInfo
can optionally include one or more contributor elements when other creator,
publisher, or pointOfContact elements exist. Each creator element can have one
element of person, organization, service, or unknown. contributor may be marked
according to SMP guidelines.</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">ded:Definition: Information about an organization, person, or entity, which
contributed intellectual content to a metadata card. Information about an
organization, person, or entity, that contributed intellectual content to a
resource, other than the publishing organization {DCMI: contributor, v. 004; IC
MSP v. 1.0a: Contributor} When a creator is a service or an organization, and
not an individual, it is expected that the contact authority (person or
organization) for the resource will be listed. The relations provided in this
schema are Organization, Person, Service, Unknown. See also, IRM Spec Category:
Contributor. Contains person, organization, web service data, or unknown for an
entity that is a contributor.</xhtml:p>&#x2028;
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Mandatory
With Exception) Mandatory to have at least one or more of creator, publisher,
contributor, or pointOfContact in metacardInfo. Mandatory to have at least one
or more of creator, publisher, contributor, or pointOfContact in
ICResourceMetadataPackage. Optional in metacardInfo.</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">ded:Comment: There is no maximum number of contributor elements in
metacardInfo. In this context, the data contained in the contributor element
describes an entity that is a contributor to the content of the metadata card.
contributor may be marked according to SMP guidelines. Specifies the
relationship of being a contributor. The data contained by the contributor

```


element in ICResourceMetadataPackage describes an entity that is a contributor to the described data asset. metacardInfo can optionally include one or more contributor elements where it indicates a contributor to a metadata card. If the contributor category is used then it must contain a person, organization, or web service. contributor may be marked according to SMP guidelines. There is no maximum number of contributor elements in a resource. At least one of creator, contributor, publisher, or pointOfContact must be present.

```

    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

<xsd:element name="countryCode" type="irm:CompoundCountryCodeIdentifierType">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Definition">ded:Definition: An element under geographicIdentifier that is a qualified
abbreviation of a county name.</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Obligation">ded:Obligation: (Conditional) a geographicIdentifier must have at least one of
name, region, countryCode, subDivisionCode, or facilityIdentifier.</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Comment">ded:Comment: Country codes are specified by the geopolitical entity.</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

<xsd:element name="creator" type="irm:ContactInfoType">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:CategoryDescription">ded:CategoryDescription: Information about
the entity responsible for generating the resource.</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:CategorySource">ded:CategorySource: DCMI: creator, v.
004</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:CategoryComment">ded:CategoryComment: This category consists of
one element. When a creator is a service or an organization, and not an
individual, it is expected that teh contact authority (person or organization)
for the resource will be listed. There is no maximum number of creator elements
in an ICResourceMetadataPackage, where it indicates the creator of a described
data asset. ICResourceMetadataPackage can optionally include one or more creator
elements when other publisher, contributor, or pointOfContact elements exist.
There is no maximum number of creator elements in a metacardInfo element, where
it indicates the creator of a metadata card. metadataInfo can optionally include
one or more creator elements when other publisher, contributor, or
pointOfContact elements exist. Each creator element can have one element of
person, organization, service, or unknown. Creator may be marked according to

```

SMP guidelines.

ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">ded:Definition: Information about the organization, person, or entity responsible for generating the metadata card. Information about the entity responsible for generating the resource {Source: DCMI: creator, v. 004; IC MSP v. 1.0a: AuthorInfo, POCInfo} When a creator is a service or an organization, and not an individual, it is expected that the contact authority (person or organization) for the resource will be listed. The relations provided in this schema are Organization, Person, Service, Unknown. See also, IRM Spec Category: Creator. Contains person, organization, Web Service data, or unknown for an entity that is a creator.

ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Mandatory With Exception) Mandatory to have at least one or more of creator, publisher, contributor, or pointOfContact in metacardInfo. Mandatory to have at least one or more of creator, publisher, contributor, or pointOfContact in ICResourceMetadataPackage. Optional in metacardInfo.

ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">ded:Comment: There is no maximum number of creator elements in metacardInfo. In this context, the data contained in the creator element describes an entity that is a creator of the metadata card. creator may be marked according to SMP guidelines. Specifies the relationship of being a creator. The data contained by the creator element in ICResourceMetadataPackage describes an entity that is a creator of the described data asset. metacardInfo can optionally include one or more creator elements where it indicates the creator of a metadata card. At least one of creator, contributor, publisher, or pointOfContact must be present in ICResourceMetadataPackage. There is no maximum number of creator elements in ICResourceMetadataPackage or metacardInfo. creator may be marked according to SMP guidelines.

</xsd:documentation>
</xsd:annotation>
</xsd:element>

<xsd:element name="dates" type="irm:DatesType">
 <xsd:annotation>
 <xsd:documentation>
 ism:classification="U"
 ism:ownerProducer="USA"
 data-ded="ded:CategoryDescription">ded:CategoryDescription: Calendar dates associated with events in the life cycle of the resource.
 ism:classification="U"
 ism:ownerProducer="USA"
 data-ded="ded:CategorySource">ded:CategorySource: ICCM v. 1.0: date; DCMI: date, v. 004
 ism:classification="U"
 ism:ownerProducer="USA"
 data-ded="ded:CategoryComment">ded:CategoryComment:
 ism:classification="U"
 ism:ownerProducer="USA"
 data-ded="ded:Definition">ded:Definition: The date related properties of this resource. See IRM Spec Category: Date. An element that provides date related information for the


```

information resource being described.</xhtml:p>&#x2028;
    <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:Obligation">ded:Obligation: (Optional, Mandatory) Optional in ICResourceMetadataPackage.
Mandatory in metacardInfo. </xhtml:p>
    <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:Comment">ded:Comment: There must be one dates element under metacardInfo. In this
context the dates element contains information about the metadata card, and must
have an approvedOn attribute populated. An optional dates element in
ICResourceMetadataPackage provides dates associated with a described data asset.
A mandatory dates element in metacardInfo provides dates associated with a
metadata card. Recommended practice is that date be specified in one of the
following formats: YYYY YYYY-MM YYYY-MM-DD YYYY-MM-DDThhTZD YYYY-MM-DDThh:mmTZD
YYYY-MM-DDThh:mm:ssTZD YYYY-MM-DDThh:mm:ss.sTZD where YYYY = 0000 through
current year MM = 01 through 12 (month) DD = 01 through 31 (day) hh = 00 through
24 (hours) mm = 00 through 59 (minute) ss = 00 through 59 (second) s = 0 through
999 (fractional second) TZD = time zone designator (Z or +hh:mm or -hh:mm) This
profile suggests two ways of handling time zone offsets: 1. Times are expressed
in UTC (Coordinated Universal Time), with a special UTC designator ("Z"). 2.
Times are expressed in local time, together with a time zone offset in hours and
minutes. A time zone offset of "+hh:mm" indicates that the date/time uses a
local time zone which is "hh" hours and "mm" minutes ahead of UTC. A time zone
offset of "-hh:mm" indicates that the date/time uses a local time zone which is
"hh" hours and "mm" minutes behind UTC. The values "Unknown" and "Not
Applicable" are also supported values for the date category elements. When
optionally used, there can only be one dates element. There can only be one
dates element in ICResourceMetadataPackage. There must be one dates element in
metacardInfo. </xhtml:p>
    </xsd:documentation>
</xsd:annotation>
</xsd:element>

<xsd:element name="description" type="irm:DescriptionType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:classification="U"
                      ism:ownerProducer="USA"
                      data-ded="ded:CategoryDescription">ded:CategoryDescription: An account of the
content of the resource.</xhtml:p>
            <xhtml:p ism:classification="U"
                      ism:ownerProducer="USA"
                      data-ded="ded:CategorySource">ded:CategorySource: DCMI: description, v.
004</xhtml:p>
            <xhtml:p ism:classification="U"
                      ism:ownerProducer="USA"
                      data-ded="ded:CategoryComment">ded:CategoryComment: description may include but
is not limited to: an abstract, reference to a graphical representation of
content or a free-text account of the content. description must be marked
according to SMP guidelines.</xhtml:p>
            <xhtml:p ism:classification="U"
                      ism:ownerProducer="USA"
                      data-ded="ded:Definition">ded:Definition: This element is used to provide a short description of the
metadata card. An account of the content of the resource. {Source: DCMI:

```

description, v. 004IC MSP v. 1.0a: Description} Description may include but is not limited to: an abstract, reference to a graphical representation of content or a free-text account of the content. See IRM Spec Category: Description. This element is used to provide a short description of the product subject, contents and any "bottom line" point the resource conveys.</xhtml:p> 

```
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
```

```
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">ded:Comment: The metacardInfo element can optionally contain at most one
```

description element which must contain a text description of the metadata card. description must be marked according to SMP guidelines. If the description element is used then it must contain a text description. The text of the description is typically a paragraph or less. An unbounded number of description elements may be included. description must be marked according to SMP guidelines.</xhtml:p>

```
</xsd:documentation>
```

```
</xsd:annotation>
```

```
</xsd:element>
```

```
<xsd:element name="extent" type="irm:QualifiedExtentValueType">
```

```
<xsd:annotation>
```

```
<xsd:documentation>
```

```
<xhtml:p ism:classification="U"
```

```
ism:ownerProducer="USA"
```

data-ded="ded:Definition">ded:Definition: An element of format that specifies related data size, compression rate, or pixel size (etc.) of the resource. A related data size, compression rate, or pixel size (etc.) of the resource. See also, IRM Spec Category: Format. </xhtml:p>

```
<xhtml:p ism:classification="U"
```

```
ism:ownerProducer="USA"
```

```
data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
```

```
<xhtml:p ism:classification="U"
```

```
ism:ownerProducer="USA"
```

```
data-ded="ded:Comment">ded:Comment: There can only be one extent element if provided.</xhtml:p>
```

```
</xsd:documentation>
```

```
</xsd:annotation>
```

```
</xsd:element>
```

```
<xsd:element name="facilityIdentifier" type="irm:FacilityIdentifierType">
```

```
<xsd:annotation>
```

```
<xsd:documentation>
```

```
<xhtml:p ism:classification="U"
```

```
ism:ownerProducer="USA"
```

data-ded="ded:Definition">ded:Definition: An element under geographicIdentifier that provides a code that uniquely identifies an installation or facility.</xhtml:p>

```
<xhtml:p ism:classification="U"
```

```
ism:ownerProducer="USA"
```

data-ded="ded:Obligation">ded:Obligation: (Conditional) a geographicIdentifier must have at least one of name, region, countryCode, subDivisionCode or facilityIdentifier.</xhtml:p>

```
<xhtml:p ism:classification="U"
```

```
ism:ownerProducer="USA"
```

```
data-ded="ded:Comment"/>
```

```

        </xsd:documentation>
    </xsd:annotation>
</xsd:element>

<xsd:element name="format" type="irm:FormatType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:CategoryDescription">ded:CategoryDescription: The physical or
digital manifestation of the resource.</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:CategorySource">ded:CategorySource: DCMI: format, v. 004</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:CategoryComment">ded:CategoryComment: Typically, format may
include the media-type or dimensions of the resource. format may be used to
determine the software, hardware or other equipment needed to display or operate
the resource. Examples of dimensions include size and duration. There can only
be at most one format element.</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Definition">ded:Definition: A top-level element that addresses the physical or digital
manifestation of the resource. The physical or digital manifestation of the
resource. Used to define the medium, extent or duration, and MIME type of the
resource. See IRM Spec Category: Format.</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Comment">ded:Comment: There can be at most one format element. If the format element
exists there must be a mimeType element.</xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
</xsd:element>

<xsd:element name="geographicIdentifier">
    <xsd:annotation>
        <xsd:documentation>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Definition">ded:Definition: An element under geospatialCoverage that defines an identifier
or reference to an identifier that describes a geographic extent using a name or
other identifier. See also ISO 19115 (eg. geographicDescription). Models a GML
compliant geographic identifier. See ISO 19115
EX_GeographicDescription.</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Obligation">ded:Obligation: (Conditional) geospatialCoverage must have at least one of
geographicIdentifier, boundingGeometry, or postalAddress.</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"

```

```

        data-ded="ded:Comment">ded:Comment: This element must contain one or more name, region, countryCode,
subDivisionCode, facilityIdentifier or waterBody elements.</xhtml:p>
    </xsd:documentation>
</xsd:annotation>
<xsd:complexType>
    <xsd:choice maxOccurs="unbounded">
        <xsd:element name="name" type="irm:simpleTokenType">
            <xsd:annotation>
                <xsd:documentation>
                    <xhtml:p ism:classification="U"
                        ism:ownerProducer="USA"
                        data-ded="ded:Definition">ded:Definition: An element under
geographicIdentifier that is the name of a place of interest, other
than a country, region, facility or body of water.</xhtml:p>
                    <xhtml:p ism:classification="U"
                        ism:ownerProducer="USA"
                        data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
                    <xhtml:p ism:classification="U"
                        ism:ownerProducer="USA"
                        data-ded="ded:Comment"/>
                </xsd:documentation>
            </xsd:annotation>
        </xsd:element>
        <xsd:element name="region" type="irm:simpleTokenType">
            <xsd:annotation>
                <xsd:documentation>
                    <xhtml:p ism:classification="U"
                        ism:ownerProducer="USA"
                        data-ded="ded:Definition">ded:Definition: An element under
geographicIdentifier that is the name of a sub-national or
transnational geographic or geopolitical region that is a subject of
the resource.</xhtml:p>
                    <xhtml:p ism:classification="U"
                        ism:ownerProducer="USA"
                        data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
                    <xhtml:p ism:classification="U"
                        ism:ownerProducer="USA"
                        data-ded="ded:Comment"/>
                </xsd:documentation>
            </xsd:annotation>
        </xsd:element>
        <xsd:element ref="irm:countryCode"/>
        <xsd:element ref="irm:subDivisionCode"/>
        <xsd:element ref="irm:facilityIdentifier"/>
        <xsd:element ref="irm:waterBody"/>
    </xsd:choice>
</xsd:complexType>
</xsd:element>

<xsd:element name="geospatialCoverage" type="irm:PlaceType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
        <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"

```

```
data-ded="ded:CategoryDescription">ded:CategoryDescription: Geographic place
names or coordinates that relate to the resource, such as a jurisdiction, point,
area, or volume on land, in space, or at sea.</xhtml:p>
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategorySource">ded:CategorySource: DCMI: spatial, v. 002; ISO
19115:2003; MARC 342 Geospatial Reference Data; Time-Space-Position Information
(TSPI) version 2.0; Federal Geographic Data Committee (FGDC) United States
Thoroughfare, Landmark, and Postal Address Data Standard</xhtml:p>
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategoryComment">ded:CategoryComment: The obligation of this
category is selected to show metadata creators that they must determine whether
the geographic reference subject matter of the resource is applicable for
discovery purposes. The geospatialCoverage element structure of prior versions
of DDMS (now IRM) has been revised and replaced with Time-Space-Position
Information (TSPI) version 2.0-compliant structures. This permits the IRM
definition of geospatial concepts to be consistent with standards used across
the DoD and the international standards community. geospatialCoverage has a
complex structure of elements and attributes. geospatialCoverage includes
several optional attributes, and additionally can be marked according to SMP
guidelines. There can be an unbounded number of geospatialCoverage elements,
each of which must have at least one of geographicIdentifier, boundingGeometry,
or postalAddress, and can include more than one of any of these elements as long
as they address the same general location. A geographicIdentifier element may
include a name, region, countryCode, subDivisionCode, or a facilityIdentifier,
the last three being elements with attributes. There can be multiple
geographicIdentifier elements of all types, within a geographicIdentifier
element. A boundingGeometry element consists of one or more elements using a
number of permitted Polygons (Polygon, Envelope, Circle, Ellipse, or Point), and
can include multiples of each element. The ddms:boundingBox and
ddms:verticalExtend of previous versions of DDMS had been deprecated and
replaced with tspi:envelope, while additional geometries defined in TSPI have
been included. Note that this is a subset of the polygons defined in TSPI. A
postalAddress element uses the AbstractPhysicalAddress structure defined in
TSPI. TSPI draws upon the Federal Geographic Data Committee (FGDC) United States
Thoroughfare, Landmark, and Postal Address Data Standard. The technique used in
the FGDC standard is the application of substitution groups for the
AbstractPhysicalAddress element. Detailed information is available in the FGDC
standard. The intent of the boundingGeometry elements (as part of the geospatial
coverage category) is to provide a description of the frame of reference for the
coordinates in a data set. To work with a geographic data set, a user must be
able to identify how location accuracy has been affected through the application
of a geospatial reference method, thus enabling the user to manipulate the data
set to recover location accuracy. If BE Number is supplied, no other elements
are required to be supplied in the Geospatial Coverage category. Note: The
National Geospatial Intelligence Agency has taken the lead within the Department
of Defense to develop an implementation of ISO 19136:2007 (GML). This standard
is widely adopted and implemented within the Geospatial Intelligence commercial
and user communities. NGA's strategy for the National System for Geospatial
Intelligence is to adopt, profile (and extend) and use relevant standards. When
encoding geospatial coordinates, the following guidelines should be followed: 1.
Latitude shall be in decimal degrees in the range greater than equal -90 degrees
and less than equal +90 degrees. 2. North latitudes shall be positive, south
```

latitudes shall be negative. 3. Longitude shall be in decimal degrees in the range greater than -180 degrees and less than +180 degrees; note that there are two equally acceptable values of longitude for the meridian opposite the prime meridian. 4. East longitudes shall be positive, west longitudes shall be negative. 5. Only the element tspi:Point shall be used to encode a geographic point location as either: (1) two decimal values in the order of latitude then longitude (no commas) when WGS84E_2D, or (2) three decimal values in the order latitude then longitude then height above ellipsoid (no commas) when using the WGS84E_3D CRS. The intent of geospatial coverage is to provide logically and semantically consistent information. Flexibility in the specification does not absolve end users of geospatial coverage from expressing information in a meaningful manner. Users should ensure that combinations of elements are appropriately relatable, consistent, meaningful, and useful for enterprise discovery. The geospatialCoverage element can be marked according to SMP guidelines. </xhtml:p>

```
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">ded:Definition: An element containing a geographic indication of one or more
places or facilities that relate to the resource. A geographic indication of one
or more places or facilities that relate to the resource. See IRM Spec Category:
Geospatial Coverage.</xhtml:p>
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Mandatory Unless Not Applicable)</xhtml:p>
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">ded:Comment: There can be an unbounded number of geospatialCoverage elements,
each of which must have at least one child element of geographicIdentifier,
boundingGeometry, or postalAddress, and can include more than one of any or
these elements.</xhtml:p>
</xsd:documentation>
</xsd:annotation>
</xsd:element>
```

```
<xsd:element name="identifier" type="irm:CompoundResourceIdentifierType">
<xsd:annotation>
<xsd:documentation>&#x2028;
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategoryDescription">ded:CategoryDescription: An unambiguous
reference to a resource within a given context.</xhtml:p>
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategorySource">ded:CategorySource: DCMI: identifier, v.
004</xhtml:p>
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategoryComment">ded:CategoryComment: This category consists of
one element. And identifier may be an internal, external, and/or universal
identification label for representing a resource by means of a string or number
conforming to a formal identification system. An example of an identifier would
be an International Standard Serial Number (ISSN), or a Uniform Resource
Location (URL). Any type of identifier can be accommodated, so long as the
identifier qualifier is specified with the identifier value. The inclusion of
```


one identifier element is mandatory; there is no upper bound on the number of identifier elements.

```
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">
```

ded:Definition: An unambiguous reference to a resource within a given context.

{An attribute stores the source of the tag's value} {sources: DCMI: identifier, v. 004; IC MSP v. 1.0a: IdentifierList} An identifier may be an internal, external, and/or universal identification label for representing a resource by means of a string or number conforming to a formal identification system. An example of an identifier would be an International Standard Serial Number (ISSN), or a Uniform Resource Locator (URL). Any type of identifier can be accommodated, so long as the identifier qualifier is specified with the identifier value. See also, IRM Spec Category: Identifier. An element that contains a location reference to the resource being described.

```
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">
```

ded:Obligation: (Mandatory) in ICResourceMetadataPackage and metacardInfo

```
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">
```

ded:Comment: There must be at least one identifier under metacardInfo, and

there can be an unbounded number. In this context the identifier element contains an identifier for the metadata card, such as a URL and any value to uniquely identify the metadata card. The identifier provides the needed information to uniquely identify the information resource being described. It generally provides information to retrieve the information resource. The inclusion of one identifier element is mandatory; there is no upper bound on the number of identifier elements.

```
</xsd:documentation>
```

```
</xsd:annotation>
```

```
</xsd:element>
```

```
<xsd:element name="keyword" type="irm:CompoundKeywordIdentifierType">
```

```
<xsd:annotation>
```

```
<xsd:documentation>
```

```
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">
```

ded:Definition: An element under the subjectCoverage element which is a natural

language indication of the resource's subject matter. A natural language

indication of the resource's subject matter. See IRM Spec Category:

Subject.

```
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">
```

ded:Obligation: (Conditional) At least one of category or keyword.

```
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">
```

ded:Comment: The number of keyword elements that can be included in the

subjectCoverage is unbounded. When there are more than one category element the

additional category entries must occur before any keyword elements.

```
</xsd:documentation>
```

```
</xsd:annotation>
```

```
</xsd:element>
```

```
<xsd:element name="language" type="irm:CompoundLanguageIdentifierType">
```

```

    <xsd:annotation>
      <xsd:documentation>&#x2028;
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:CategoryDescription">ded:CategoryDescription: The primary language
of the intellectual content of the resource.</xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:CategorySource">ded:CategorySource: DCMI: language, v.
004</xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:CategoryComment">ded:CategoryComment: The category includes one
element, language. The most specific in-scope language present (if any) should
be specified. The language element can be repeated as needed with no quantity
limit.</xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Definition">ded:Definition: An element that contains a primary language of the intellectual
content of the resource. The primary language of the intellectual content of the
resource. {Source: DCMI: language, v. 004IC MSP v. 1.0a: Language} The most
specific in-scope language present (if any) should be specified in this
category. See IRM Spec Category: Language.</xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Comment">ded:Comment: The language element can be repeated as needed with no quantity
limit.</xhtml:p>
      </xsd:documentation>
    </xsd:annotation>
  </xsd:element>

<xsd:element name="medium" type="irm:MediumType">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Definition">ded:Definition: An element of format that specifies the physical medium or
instantiation of the resource. The physical medium or instantiation of the
resource. See also IRM Spec Category: Format. </xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Comment"/>
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

<xsd:element name="metacardInfo" type="irm:MetacardInfoType">
  <xsd:annotation>

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        <xsd:documentation>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:CategoryDescription">ded:CategoryDescription: Information about
the discovery assertion.</xhtml:p>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:CategorySource">ded:CategorySource: DoD 5200.1-R; EO
12958</xhtml:p>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:CategoryComment">ded:CategoryComment: This category consists of
one top-level element which contains metadata about the discovery assertion. The
mandatory element for the metacardInfo category is the metacardInfo element.
metacardInfo may be marked according to SMP guidelines.</xhtml:p>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Definition">ded:Definition: This element contains metadata about the metadata card.
Information about the metadata card.</xhtml:p>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Obligation">ded:Obligation: (Mandatory)</xhtml:p>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment">ded:Comment: One metacardInfo element must be present in an IRM record.
metacardInfo may be marked according to SMP guidelines.</xhtml:p>
        </xsd:documentation>
      </xsd:annotation>
    </xsd:element>

    <xsd:element name="mimeType" type="irm:MimeTypeType">
      <xsd:annotation>
        <xsd:documentation>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Definition">ded:Definition: An element of format that specifies the MIME type for the
resource being described. The Internet Media Type [MIME] of the Resource. See
IRM Spec Category: Format.</xhtml:p>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Obligation">ded:Obligation: (Conditional) Mandatory if format is present.</xhtml:p>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment">ded:Comment: mimeType is expressed as: category/specific-type, such as
"image/gif". A comprehensive list of existing MIME types is available on the
Internet at http://www.iana.org/assignments/media-types/.</xhtml:p>
        </xsd:documentation>
      </xsd:annotation>
    </xsd:element>

    <xsd:element name="nonStateActor" type="irm:NonStateActorCoverageType">
      <xsd:annotation>
        <xsd:documentation>
          <xhtml:p ism:classification="U"

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        ism:ownerProducer="USA"
        data-ded="ded:Definition">ded:Definition: Non-state actors that are within the scope of coverage for the
described item. Non-state actors that are within the scope of coverage for the
described item.</xhtml:p>
        <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
        <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Comment">ded:Comment: The number of nonStateActor elements that can be included in the
subjectCoverage element is unbounded. The nonStateActor element must be marked
according to SMP guidelines.</xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
</xsd:element>

<xsd:element name="organization" type="irm:OrganizationType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
        <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:CategoryDescription">ded:CategoryDescription: Information about an
organization.</xhtml:p>
        <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:CategorySource">ded:CategorySource: DCMI: contributor, v. 004;
DCMI: publisher, v. 004; DCMI: creator, v. 004</xhtml:p>
        <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:CategoryComment">ded:CategoryComment: organization is an entity
that may fulfill the role of a creator, publisher, or contributor.</xhtml:p>
        <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Definition">ded:Definition: child element of recordKeeper that describes a named
organization responsible for recordkeeping the described data asset. An element
within person that contains the identification of an organization or community
with which an individual has an affiliation. An element that contains
identification and contact information about an organization, specifically
related to an information resource. A named organization responsible as
indicated by its encompassing element, i.e. as a creator, contributor, or
publisher. See also, IRM Spec Categories: Contributor, Creator,
Publisher.</xhtml:p>
        <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Obligation">ded:Obligation: (Conditional) The obligation is derived from the invoking
element. If a creator, publisher, web service, or contributor is present and
that element has a value of organization then the organization element is
required and the obligations of the organization element and the elements within
it applies. Mandatory if creator, publisher, contributor, or pointOfContact
contains organization. Mandatory when recordKeeper is used.</xhtml:p>
        <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Comment">ded:Comment: This could be an abbreviation for a community or organization.
There is no maximum number of affiliation elements.</xhtml:p>
    </xsd:annotation>
</xsd:element>

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        </xsd:documentation>
    </xsd:annotation>
</xsd:element>

<xsd:element name="person" type="irm:PersonType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A
person responsible as indicated by its encompassing element, i.e. as a creator,
contributor, or publisher. See also, IRM Spec Categories: Contributor, Creator,
Publisher.</xhtml:p>
            <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategoryDescription">ded:CategoryDescription: Information about a
person.</xhtml:p>
            <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategorySource">ded:CategorySource: DCMI: contributor, v. 004;
DCMI: publisher, v. 004, DCMI: creator, v. 004</xhtml:p>
            <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategoryComment">ded:CategoryComment: person is an entity that may
fulfill the role of a creator, publisher or contributor.</xhtml:p>
            <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">ded:Definition: An element that contains identification and contact information
about a person.</xhtml:p>
            <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Conditional) The obligation is derived from the invoking
element. If a creator, publisher, web service, or contributor is present and
that element has value of person, then the person element is required and the
obligations of the person element and the elements within it applies. Mandatory
if creator, publisher, contributor, or pointOfContact contains person.</xhtml:p>
            <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment"/>
        </xsd:documentation>
    </xsd:annotation>
</xsd:element>

<xsd:element name="pointOfContact" type="irm:ContactInfoType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategoryDescription">ded:CategoryDescription: Information about an
organization, person, or other entity associated with a resource, other than the
creating or publishing organization.</xhtml:p>
            <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategorySource"/>
            <xhtml:p ism:classification="U"
ism:ownerProducer="USA"

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        data-ded="ded:CategoryComment">ded:CategoryComment: This category consists of
one element. When a point of contact is a service or an organization, and not an
individual, it is expected that the contact authority (person or organization)
for the resource will be listed. There is no maximum number of pointOfContact
elements in a ICResourceMetadataPackage, where it indicates a POC for a
described data asset. ICResourceMetadataPackage can optionally include one or
more pointOfContact elements when other creator, publisher, or contributor
elements exist. There is no maximum number of pointOfContact elements in a
metacardInfo element, where it indicates a point of contact of a metadata card.
metacardInfo can optionally include one or more pointOfContact elements when
other creator, publisher, or contributor elements exist. Each pointOfContact
element can have one element of person, organization, service, or unknown.
pointOfContact may be marked according to SMP guidelines.</xhtml:p>
        <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">ded:Definition: Information about an organization, person, or other entity
associated with a metadata card, other than the creating or publishing
organization. The point of contact, usually a Person, is the entity primarily
responsible for accepting inquiries regarding the resource. Contains person,
organization, web service data, or unknown for an entity that is a point of
contact.</xhtml:p>&#x2028;
        <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Mandatory
With Exception) Mandatory to have at least one or more of creator, publisher,
contributor, or pointOfContact in metacardInfo. Mandatory to have at least one
or more of creator, publisher, contributor, or pointOfContact in
ICResourceMetadataPackage. Optional in metacardInfo.</xhtml:p>
        <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">ded:Comment: There is no maximum number of pointOfContact elements in
metacardInfo. In this context, the data contained in the pointOfContact element
describes an entity that is a pointOfContact for the content of the metadata
card. pointOfContact may be marked according to SMP guidelines. Specifies the
relationship of being a point of contact. The data contained by the
pointOfContact element in ICResourceMetadataPackage describes an entity that is
a point of contact for the described data asset. metacardInfo can optionally
include one or more pointOfContact elements where it describes an entity that is
a point of contact for the metadata card. pointOfContact may be marked according
to SMP guidelines. There is no maximum number of pointOfContact elements in a
resource. At least one of the creator, contributor, publisher or pointOfContact
must be present in a ICResourceMetadataPackage.</xhtml:p>
    </xsd:documentation>
</xsd:annotation>
</xsd:element>

<xsd:element name="postalAddress">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">ded:Definition: An element under geospatialCoverage
that allows the specification of a place ("an identifiable part of any space")
that is identified using (physical) addresses (e.g., postal address). Models a

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standalone postal address.</xhtml:p>
  <xhtml:p ism:classification="U"
    ism:ownerProducer="USA"
    data-ded="ded:Obligation">ded:Obligation: (Conditional) - geospatialCoverage must have at least one of
geographicIdentifier, boundingGeometry, or postalAddress</xhtml:p>
  <xhtml:p ism:classification="U"
    ism:ownerProducer="USA"
    data-ded="ded:Comment">ded:Comment: TSPI encodes postalAddress as tspi:AbstractPhysicalAddress,
permitting the use of substitution groups that are traced to the FGDC standard,
including GeneralAddressClass, IntersectionAddress, LandmarkAddress,
NumberedThoroughfareAddress, TwoNumberAddressRange, USPSGeneralDeliveryOffice,
USPSPostalDeliveryBox, USPSPostalDeliveryRoute, and
UnnumberedThoroughfareAddress. Details for the structure and encoding of
postalAddress and its substitution groups are detailed in section 7 of the TSPI
specification, which is used in conjunction with the FDGC standard. </xhtml:p>
  </xsd:documentation>
</xsd:annotation>
<xsd:complexType>
  <xsd:group ref="irm:postalAddressGroup"/>
</xsd:complexType>
</xsd:element>

<xsd:element name="processingInfo" type="irm:ProcessingInfoType">
  <xsd:annotation>
    <xsd:documentation>&#x2028;
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:CategoryDescription">ded:CategoryDescription: This element
provides information on how and when metadata was added to a metadata card
post-production.</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:CategorySource"/>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:CategoryComment">ded:CategoryComment: The processingInfo element
must be marked according to SMP guidelines.</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Definition">ded:Definition: Information on how and when metadata was added to a metadata
card post-production. Information about when and/or how a product was
transformed post-publication, including adding metadata to a published product.
Information on how and when metadata was added to a metadata card or a described
data asset post-production.</xhtml:p>&#x2028;
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Obligation">ded:Obligation:
(Optional)</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Comment">ded:Comment: The number of processingInfo elements is unbounded. In this
context, processingInfo provides information on how and when metadata was added
to a metadata card after the initial publication of the metadata card.
processingInfo must be marked according to SMP guidelines.</xhtml:p>
    
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    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

<xsd:element name="publisher" type="irm:ContactInfoType">
  <xsd:annotation>
    <xsd:documentation>&#x2028;
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:CategoryDescription">ded:CategoryDescription: This category is
used to tag the identification of the entity responsible for releasing the data
asset and the entity primarily responsible for the intellectual content of the
product. It is intended that this category apply whenever applicable to an
organization, as opposed to a person.</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:CategorySource">ded:CategorySource: DCMI: publisher, v.
004</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:CategoryComment">ded:CategoryComment: This category consists of
one element. Typically, the name of a publisher should be used to indicate the
organization, agency, or domain responsible for the resource. There is no
maximum number of publisher elements in a ICResourceMetadataPackage, where it
indicates the publisher of a described data asset. ICResourceMetadataPackage can
optionally include one or more publisher elements when other creator,
contributor or pointOfContact elements exist. There is no maximum number of
publisher elements in a metacardInfo element, where it indicates the publisher
of a metadata card. metacardInfo can optionally include one or more publisher
elements when other creator, contributor, or pointOfContact elements exist. Each
publisher element can have one element of person, organization, service, or
unknown. publisher may be marked according to SMP guidelines.</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Definition">ded:Definition: Information describing the entity responsible for publishing
the metadata card. This category is used to tag the identification of the entity
responsible for releasing the data asset--the entity primarily responsible for
the intellectual content of the product. It is intended that this category apply
whenever applicable to an organization, as opposed to a person. Typically, the
name of a Publisher should be used to indicate the organization, agency, or
domain responsible for the resource. See also, IRM Spec Category: Publisher.
Contains person, organization, Web Service data, or unknown for an entity that
is a publisher.</xhtml:p>&#x2028;
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Obligation">ded:Obligation: (Mandatory
With Exception) Mandatory to have one or more of creator, publisher,
contributor, or pointOfContact in metacardInfo. Mandatory to have at least one
of creator, publisher, contributor, or pointOfContact in
ICResourceMetadataPackage. Optional in metacardInfo.</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Comment">ded:Comment: There is no maximum number of publisher elements in metacardInfo.
In this context the publisher element describes the publisher of the metadata

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card, which may not be the same as the publisher of the described data asset. publisher may be marked according to SMP guidelines. Specifies the relationship of being a publisher. The data contained by the publisher element in ICResourceMetadataPackage describes an entity that is a publisher of a described data asset. If the publisher category is used then it must contain a person, organization, or web service. publisher may be marked according to SMP guidelines. There is no maximum number of publisher elements in a ICResourceMetadataPackage or metacardInfo. At least one of creator, contributor, publisher, or pointOfContact must be present in ICResourceMetadataPackage. At least one of creator, contributor, publisher, or pointOfContact must be present in metacardInfo where it indicates the publisher of a metadata card.

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</xsd:documentation>
</xsd:annotation>
</xsd:element>

<xsd:element name="relatedResource" type="irm:RelatedResourcesType">
  <xsd:annotation>
    <xsd:documentation>&#x2028;
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Each
relatedResources element represents a single type of relationship between the
resource described in the enclosing irm:Resource and other identified resources. </xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategoryDescription">ded:CategoryDescription: A set of resources
related to the resource being described by a specified relationship and
direction. </xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategorySource">ded:CategorySource: DCMI: relation, v.
1.1</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategoryComment">ded:CategoryComment: relatedResource may be
marked according to SMP guidelines.</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">ded:Definition: An element that identifies one or more resources and describes
the relationship and the direction of the relationship between those resources
and the resource being described by the containing IRM record. To represent
multiple relationships, multiple relatedResource elements are
required.</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">ded:Comment: There can be an unbounded number of relatedResource elements. They
may optionally be protected with IC ISM attributes to protect the identity of
resources related by the specified relationship.</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

<xsd:element name="resourceManagement" type="irm:ResourceManagementType">

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        <xsd:annotation>
          <xsd:documentation>
            <xhtml:p ism:ownerProducer="USA" ism:classification="U">
Information on resource management (ie. tasking, processing).
</xhtml:p>
          </xsd:documentation>
        </xsd:annotation>
      </xsd:element>

<xsd:element name="rights" type="irm:RightsType">
  <xsd:annotation>
    <xsd:documentation>&#x2028;
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategoryDescription">ded:CategoryDescription: Information about
rights held in and over the resource. The category includes one element,
rights.</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategorySource">ded:CategorySource: DCMI: rights, v. 004</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategoryComment">ded:CategoryComment: While copyright is
considered a type of intellectual property right, in this instance copyright is
broken out separately, and intellectual property rights will be used to indicate
all other intellectual rights other than copyrights.</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">ded:Definition: An element containing information about rights held in and over
the resource. Information about rights held in and over the resource. Typically,
a rights element will contain a rights management statement for the resource, or
reference a service providing such information. Rights information often
encompasses Intellectual Property Rights (IPR), Copyright, and various Property
Rights. If the rights element is absent, no assumptions can be made about the
status of these and other rights with respect to the resource. See IRM Spec
Category: Rights.</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">ded:Comment: Typically, a rights element will contain a rights management
statement for the resource, or reference a service providing such
information.</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

<xsd:element name="service" type="irm:ServiceType">
  <xsd:annotation>
    <xsd:documentation>&#x2028;
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategoryDescription">ded:CategoryDescription: Information about a

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web service.</xhtml:p>
  <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:CategorySource">ded:CategorySource: DCMI: contributor, v. 004;
DCMI: publisher, v. 004; DCMI: creator, v. 004</xhtml:p>
  <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:CategoryComment">ded:CategoryComment: service is an entity that
may fulfill the role of creator, publisher, or contributor.</xhtml:p>
  <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Definition">ded:Definition: An element that contains identification and contact information
for an information service. A named service responsible as indicated by its
encompassing element, i.e. as a creator, contributor, or publisher. See also,
IRM Spec Categories: Contributor, Creator, Publisher.</xhtml:p>
  <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Obligation">ded:Obligation: (Conditional) The obligation is derived from the invoking
element. If a creator, publisher, web service, or contributor is present and
that element has value of service (meaning web service) then the service element
is required and the obligations of the service element and elements within it
applies. Mandatory if creator, publisher, contributor, or pointOfContact
contains service.</xhtml:p>
  <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment"/>
</xsd:documentation>
</xsd:annotation>
</xsd:element>

<xsd:element name="source" type="irm:CompoundSourceIdentifierType">
  <xsd:annotation>
    <xsd:documentation>&#x2028;
    <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:CategoryDescription">ded:CategoryDescription: References to assets
or resources from which the tagged data asset is derived.</xhtml:p>
    <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:CategorySource">ded:CategorySource: DCMI: source, v. 004</xhtml:p>
    <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:CategoryComment">ded:CategoryComment: This category includes one
element, source. The source element can be repeated as needed, with no upper
bound. Sources may be derived partially or wholly, and it is recommended that an
identifier (such as a string or number from a formal identification system) be
used as a reference. The source element may be marked according to SMP
guidelines.</xhtml:p>
    <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:Definition">ded:Definition: An element that provides references to assets or resources from
which the tagged data asset is derived. References to assets or resources from
which the tagged data asset is derived. {Source: DCMI: source, v. 004} Sources
may be derived partially or wholly, and it is recommended that an identifier
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(such as a string or number from a formal identification system) be used as a reference. See also, IRM Spec Category: Source. </xhtml:p>

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<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">ded:Comment: The source element can be repeated as needed, with no upper bound.
The source element may be marked according to SMP guidelines.</xhtml:p>
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</xsd:documentation>
</xsd:annotation>
</xsd:element>
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<xsd:element name="subDivisionCode" type="irm:CompoundCountryCodeIdentifierType">
<xsd:annotation>
<xsd:documentation>
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<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">ded:Definition: An element under geographicIdentifier that is a qualified abbreviation of a region that is not expressed in country code. A standards-based abbreviation of an administrative subdivision of a country. The code elements may consist of a controlled vocabulary value such as the ones defined in ISO 3166-2.</xhtml:p>

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<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Conditional) a geographicIdentifier must have a least one of name, region, countryCode, subDivisionCode, or facilityIdentifier.</xhtml:p>
```

<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">ded:Comment: This element can be used to describe such areas that are smaller areas within countries, such as states or provinces. Acceptable values should indicate code vocabularies from acceptable controlled vocabulary codes defining sub divisions, such as the ISO 3166-2 that defines sub division codes.</xhtml:p>

```
</xsd:documentation>
</xsd:annotation>
</xsd:element>
```

```
<xsd:element name="subjectCoverage" type="irm:SubjectType">
<xsd:annotation>
```

<xsd:documentation> 
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategoryDescription">ded:CategoryDescription: Metadata that characterize the subject matter of a resource, including categories, keywords(s), production metrics, and non-state actors.</xhtml:p>

```
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategorySource">ded:CategorySource: DCMI: subject, v.
```

004</xhtml:p>
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategoryComment">ded:CategoryComment: The subjectCoverage consists of one subjectCoverage element, which must have at least one of category, keyword, productionMetric, or nonStateActor elements, with all elements allowing

an unbounded number of elements. Typically, subjectCoverage will be expressed as keywords, key phrases, enumerated classification codes that describe a topic of the resource, production metrics that are used by specific intelligence organizations, and non-state actors, where the subject is an organization or group of places or people who are not limited to a specific geographical area. Recommended best practice is to select a value from a controlled vocabulary or formal classification scheme. This may list keywords that apply to the resource, or particular subject category, which will aid the user in understanding the genre of the content. A specific example of the use of the category element is the specification of a specific set of values from a community or enterprise taxonomy, such as ucire taxonomy. In this case qualifier refers to the taxonomy and the value is the specific entry from the taxonomy. The subjectCoverage element can be marked according to SMP guidelines.

```
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">ded:Definition: The top-level element that contains categories and keywords
describing a given information resource. Container for the categorical subject
and natural language subject classifications. It is assumed that all content
under subjectCoverage is related to the same subject. See also SubjectType.
NOTE: At least one of either Keyword or Category must appear, after one instance
of either appears, additional categories must appear before additional keywords.
See IRM Spec Category: Subject.</xhtml:p>
```

```
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Mandatory)</xhtml:p>
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">ded:Comment: The subjectCoverage element can be marked according to SMP
guidelines.</xhtml:p>
```

```
</xsd:documentation>
</xsd:annotation>
</xsd:element>
```

```
<xsd:element name="subtitle" type="irm:SubtitleType">
  <xsd:annotation>
    <xsd:documentation>&#x2028;
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> </xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">ded:Definition: A subtitle may be any form of the title used as a substitute,
or it may be an alternative to the formal title of the resource. A subtitle may
be any form of the title used as a substitute, or it may be an alternative to
the formal title of the resource. See also, IRM Spec Category:
Title.</xhtml:p>&#x2028;
```

```
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">ded:Comment: There is no maximum number of subtitle elements. subtitle must be
marked according to SMP guidelines.</xhtml:p>
```

```
</xsd:documentation>
</xsd:annotation>
</xsd:element>
```

```

<xsd:element name="temporalCoverage" type="irm:TimePeriodType">
  <xsd:annotation>
    <xsd:documentation>&#x2028;
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> The
subject-matter coverage in terms of one or more periods of time. That is, an
indication of the time period for which the subject of the resource applies.
(E.g. The 50's, or a span of time indicated by a start and end time.) See IRM
Spec Category: Temporal Coverage. </xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategoryDescription">ded:CategoryDescription: Subject matter
coverage expressed in terms of one or more periods of time.</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategorySource">ded:CategorySource: DCMI: temporal, v.
002</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:CategoryComment">ded:CategoryComment: There can be an unbounded
number of temporalCoverage elements. A temporalCoverage element can include a
textual name. Recommended practice is that temporalCoverage:start and
temporalCoverage:end be specified in one of the following formats: YYYY YYYY-MM
YYYY-MM-DD YYYY-MM-DDThh:mmTZD YYYY-MM-DDThh:mm:ssTZD YYYY-MM-DDThh:mm:ss.sTZD
Where: YYYY 0000 through current year MM 01 through 12 (month) DD 01 through 31
(day) hh 00 through 24 (hour) mm 00 through 59 (minute) ss 00 through 60
(second) .s .0 through 999 (fractional second) TZD = time zone designator (Z or
+hh:mm or -hh:mm) This profile suggests two ways of handling time zone offsets:
1. Times are expressed in UTC (Coordinated Universal Time), with a special UTC
designator ("Z"). 2. Times are expressed in local time, together with a time
zone offset in hours and minutes. A time zone offset of "+hh:mm" indicates that
the date/time uses a local time zone which is "hh" hours and "mm" minutes ahead
of UTC. A time zone offset of "-hh:mm" indicates that the date/time uses a local
time zone which is "hh" hours and "mm" minutes behind UTC. Start and End dates
can now be expressed as being approximate. Additionally, the
temporalCoverage:start and temporalCoverage:end may be specified to be "not
applicable" or "unknown" as necessary. If a temporalCoverage element does not
appear, it is equivalent to a temporalCoverage element where all of the
sub-elements are set to "not applicable" The temporalCoverage element can be
marked according to SMP guidelines. </xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">ded:Definition: An element that defines the subject-matter coverage in terms of
one or more periods of time.</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Mandatory Unless Not Applicable)</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">ded:Comment: This element provides an indication of the time period for which
the subject of the resource applies. (E.g. The 50's, or a span of time indicated
by a start and end time.) The temporalCoverage element can be marked according
to SMP guidelines.</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```

```

    </xsd:annotation>
  </xsd:element>

  <xsd:element name="title" type="irm:TitleType">
    <xsd:annotation>
      <xsd:documentation>&#x2028;
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:CategoryDescription">ded:CategoryDescription: A name, or names,
given to the resource.</xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:CategorySource">ded:CategorySource: DCMI: title, v. 004</xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:CategoryComment">ded:CategoryComment: Each IRM resource must
contain a least one title element, and may contain one or more subtitle
elements, or supplementary explanatory titles for use on cover pages and for
cataloging and searching. title and subtitle are marked according to SMP
guidelines.</xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Definition">ded:Definition: Typically, a title will be a name by which the resource is
formally known. A name, or names, given to the resource {from DCMI: title, v.
004}. The title category must contain at least one title, and may contain
subtitles, or supplementary, explanatory titles for use on cover pages and for
cataloging and searching. See also, IRM Spec Category: Title.</xhtml:p>&#x2028;
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Obligation">ded:Obligation: (Mandatory)</xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Comment">ded:Comment: There must be a least one title per resource. There is no maximum
number of title elements. title must be marked according to SMP
guidelines.</xhtml:p>
      </xsd:documentation>
    </xsd:annotation>
  </xsd:element>

  <xsd:element name="type" type="irm:CompoundTypeIdentifierType">
    <xsd:annotation>
      <xsd:documentation>&#x2028;
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:CategoryDescription">ded:CategoryDescription: The nature, genre,
or discipline of the content of the resource.</xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:CategorySource">ded:CategorySource: DCMI: type, v. 004</xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:CategoryComment">ded:CategoryComment: This category includes one
element, type. The type element can be repeated as needed, with no upper bound.
Recommended best practice is to select a value from a controlled vocabulary (for

```

example, the DCMI Type Vocabulary [DCMITYPE]). To describe the physical or digital manifestation of the resource, use the Format element.

```

    <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Definition">ded:Definition: An element that contains the nature, genre, or discipline of
the content of the resource. The nature or genre of the content of the resource.
See, DCMI Type Vocabulary [DCMITYPE], which includes, Collection, Dataset, Event
Image, InteractiveResource, Service, Software, Sound, Text, PhysicalObject,
StillImage, MovingImage. See IRM Spec Category: Type. </xhtml:p>
    <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
    <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment">ded:Comment: The type element can include a string in addition to attributes
that can be used to provide additional description of the type that was entered.
The type element can be repeated as necessary.</xhtml:p>
  </xsd:documentation>
</xsd:annotation>
</xsd:element>

<xsd:element name="unknown" type="irm:UnknownType">
  <xsd:annotation>
    <xsd:documentation>&#x2028;
      <xhtml:p ism:ownerProducer="USA" ism:classification="U">
Identification that the type of entity of the encompassing element i.e. as a
creator, contributor, or publisher, is unknown. See also, IRM Spec Categories:
Contributor, Creator, Publisher. </xhtml:p>
      <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:CategoryDescription">ded:CategoryDescription: Information about a
contributor whose entity construct is unknown. Mainly provided where it is
indiscernible if the creator/publisher/contributor/pointOfContact is either a
person, organization or a web service.</xhtml:p>
      <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:CategorySource">ded:CategorySource: DDMS CR 2009-09</xhtml:p>
      <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:CategoryComment">ded:CategoryComment: unknown is an entity that
may fulfill the role of a creator, publisher, contributor, or
pointOfContact.</xhtml:p>
      <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:Definition">ded:Definition: An element that contains any known identification and contact
information for an entity involved in an information resource that does not fit
into the other available classifications.</xhtml:p>
      <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:Obligation">ded:Obligation: (Conditional) The obligation is derived from the invoking
element. If a creator, publisher, web service, or contributor is present and
that element has value of unknown then the unknown element is required and the
obligations of the unknown element and elements within it applies. Mandatory if
creator, publisher, contributor, or pointOfContact contains unknown.</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

```



```

        <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment"/>
    </xsd:documentation>
</xsd:annotation>
</xsd:element>

<!-- Virtual Coverage wrapping -->

<xsd:element name="virtualCoverage" type="virt:VirtualCoverageType">
    <xsd:annotation>
        <xsd:documentation>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:CategoryDescription">ded:CategoryDescription: The subject-matter
coverage of a publication in terms of one or more virtual addresses.</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:CategorySource"/>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:CategoryComment">ded:CategoryComment: For this purpose, a
"virtual" address is a computer network address, expressed as a set of Internet
Protocol (IP) octets, a uniform resource locator (URL), or some other
network-addressing scheme, such as a network name or locale. When
virtualCoverage is present then either protocol or address (or both) should be
defined. The virtualCoverage element can be marked according to SMP
guidelines.</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Definition">ded:Definition: An element that specifies the subject-matter coverage of a
publication in terms of one or more virtual addresses. </xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Obligation">ded:Obligation: (Mandatory Unless Not Applicable)</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Comment">ded:Comment: When present there can be an unbounded number of virturalCoverage
elements.</xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
</xsd:element>

<xsd:element name="waterBody" type="irm:CompoundWaterBodyIdentifierType">
    <xsd:annotation>
        <xsd:documentation>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Definition">ded:Definition: An element under geographicIdentifier that is a qualified
abbreviation of a body of water.</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Obligation">ded:Obligation: (Conditional) a geographicIdentifier must have at least one of
name, region, countryCode, subDivisionCode, facilityIdentifier or waterBody.</xhtml:p>

```

```

        <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment">ded:Comment: Country codes are specified by the geopolitical entity.</xhtml:p>
    </xsd:documentation>
</xsd:annotation>
</xsd:element>

<!-- End Elements Definitions -->

```

```

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

```

```

<!--      Attribute Definitions      -->

```

```

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

```

```

<xsd:attribute name="acronym" type="irm:simpleTokenType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Definition">ded:Definition: An attribute of organization that
contains the acronym of the organization if there is an acronym.</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Comment">ded:Comment: Where there is only an acronym for an organization populate both
the name element and acronym attribute with that acronym.</xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>

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

```

```

<!--      Complex Type Definitions      -->

```

```

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

```

```

<xsd:complexType name="AffiliatedProducerType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> The
type used to model the irm:producer element. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:complexContent>
        <xsd:extension base="irm:ProducerBaseType">
            <xsd:sequence minOccurs="0">
                <xsd:element name="name" type="irm:simpleTokenType" maxOccurs="unbounded">
                    <xsd:annotation>
                        <xsd:documentation>

```



```
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">ded:Definition: An element within
service or unknown that contains the name of the web
service.</xhtml:p>
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Conditional)
Mandatory if the service or unknown is used.</xhtml:p>
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">ded:Comment: This name might be the
namespaced-qualified name of the web service or the name given
to the unknown entity. There is no maximum number of name
elements.</xhtml:p>
</xsd:documentation>
</xsd:annotation>
</xsd:element>
<xsd:element name="phone"
type="irm:simpleTokenType"
minOccurs="0"
maxOccurs="unbounded">
<xsd:annotation>
<xsd:documentation>&#x2028;
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">ded:Definition: An element within service or unknown that
contains a telephone number. A telephone number. Optional. This
value must include country code and area code, when
applicable.</xhtml:p>
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">ded:Comment: A telephone number at which
the responsible provider for a web service can be contacted.
There is no maximum number of phone elements.</xhtml:p>
</xsd:documentation>
</xsd:annotation>
</xsd:element>
<xsd:element name="email"
type="irm:simpleTokenType"
minOccurs="0"
maxOccurs="unbounded">
<xsd:annotation>
<xsd:documentation>&#x2028;
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">ded:Definition: An element within service or unknown that
contains an address for electronic email. An address for
electronic mail.</xhtml:p>
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
```

```

        data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
    <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Comment">ded:Comment: An email address at which
the responsible provider for a web service or unknown entity can
be contacted. There is no maximum number of email
elements.</xhtml:p>
    </xsd:documentation>
</xsd:annotation>
</xsd:element>
<xsd:element ref="irm:affiliation" minOccurs="0" maxOccurs="unbounded"/>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

<xsd:complexType name="ApproximableDateType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Type
used to model dates that are approximate, and may not be processable by search
engines. Use of the searchableDate is intended to inform search engines when
this record should be returned; without it, query matching is system-dependent.
This date can be obfuscated for security or other reasons. Example: The
information was received on 2010-06-14 but to reduce the risk of compromising
the source it is shown in a document as searchableDate
start="2010-05-01T00:00:00Z" end="2010-07-01T00:00:00Z" </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
<xsd:all>
    <xsd:element name="description" type="irm:simpleTokenType" minOccurs="0">
        <xsd:annotation>
            <xsd:documentation>&#x2028;
                <xhtml:p ism:classification="U"
                    ism:ownerProducer="USA"
                    data-ded="ded:Definition">ded:Definition: An
optional element of an ApproximableDateType (eg. acquiredOn) that allows
for a text description of the approximable date. A string describing a
date, such as "Ramadan 2010". This string is descriptive, but not
necessarily processable by search engines.</xhtml:p>
                <xhtml:p ism:classification="U"
                    ism:ownerProducer="USA"
                    data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
                <xhtml:p ism:classification="U"
                    ism:ownerProducer="USA"
                    data-ded="ded:Comment">ded:Comment: Use of only this element in an
ApproximableDateType does not provide any assurance of searchability. To
ensure that a IRM record can be searched for by date, used
searchableDate.</xhtml:p>
            </xsd:documentation>
        </xsd:annotation>
    </xsd:element>
    <xsd:element name="approximableDate" minOccurs="0">
        <xsd:annotation>

```

```

    <xsd:documentation>&#x2028;
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Definition">ded:Definition: An
optional element of ApproximableDateType (e.g. acquiredOn) that allows a
given date to be modified by approximation vocabulary. An ISO 8601 date
with an approximation attribute to add values such as "early". ISO 8601
allows for dates such as 2010-06; search engines have different
interpretations about when to return records marked as such.</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Comment">ded:Comment: Use of only this element in an
ApproximableDateType does not provide any assurance of searchability. To
ensure that a IRM record can be searched for by date, used
searchableDate.</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
<xsd:complexType>
  <xsd:simpleContent>
    <xsd:extension base="irm:CombinedDateType">
      <xsd:attribute name="approximation" type="irm:DateApproximationEnumerationType">
        <xsd:annotation>
          <xsd:documentation>&#x2028;
            <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:Definition">ded:Definition: An optional attribute of
approximableDate that describes an approximation of the
date in approximableDate using a specific
vocabulary.</xhtml:p>
            <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:Obligation">ded:Obligation:
(Optional)</xhtml:p>
            <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:Comment">ded:Comment: Allowable values
are: 1st qtr, 2nd qtr, 3rd qtr, 4th qtr, circa, early,
mid, late.</xhtml:p>
          </xsd:documentation>
        </xsd:annotation>
      </xsd:attribute>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
</xsd:element>
<xsd:element name="searchableDate" minOccurs="0">
  <xsd:annotation>
    <xsd:documentation>&#x2028;
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Definition">ded:Definition: An

```

optional element of an ApproximableDateType (e.g. acquiredOn) that allows a range of dates to be specified, covering the approximate time being described. A range of dates covering the time period of the approximable date. A search engine should be able to return IRM records for queries in which the searched time period intersects this date range.

```

</xhtml:p>
  <xhtml:p ism:classification="U"
    ism:ownerProducer="USA"
    data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
  <xhtml:p ism:classification="U"
    ism:ownerProducer="USA"
    data-ded="ded:Comment"/>
</xsd:documentation>
</xsd:annotation>
<xsd:complexType>
  <xsd:sequence minOccurs="0">
    <xsd:element name="start" type="irm:CombinedDateType" minOccurs="0">
      <xsd:annotation>
        <xsd:documentation>&#x2028;
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Definition">ded:Definition: Required element of searchableDate. The
first date of a range describing an approximable
date.</xhtml:p>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Obligation">ded:Obligation: (Conditional)
Required if searchableDate is present. </xhtml:p>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment"/>
        </xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="end" type="irm:CombinedDateType" minOccurs="0">
      <xsd:annotation>
        <xsd:documentation>&#x2028;
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Definition">ded:Definition: Required element of searchableDate. The
last date of a range describing an approximable
date.</xhtml:p>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Obligation">ded:Obligation: (Conditional)
Required if searchableDate is present. </xhtml:p>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment"/>
        </xsd:documentation>
      </xsd:annotation>
    </xsd:element>
  </xsd:sequence>
</xsd:complexType>

```

```

    </xsd:element>
  </xsd:all>
</xsd:complexType>

<xsd:complexType name="BoundingGeometryType">
  <xsd:annotation>
    <xsd:documentation>&#x2028;
      <xhtml:p ism:ownerProducer="USA" ism:classification="U">Type
that defines a GML compliant bounding geometry. See ISO 19115
EX_BoundingPolygon. Developer's Note: It is required that the srsName attribute
be populated on a gml:Point or gml:Polygon element within the IRM. Recommended
values for the attribute are: <!-- These Coordinate Reference System references are registered in the GSIP Governance Namespace on the DoD Metadata Registry. -->

<!--Updated links 10/2012-->

<xhtml:ul>
  <xhtml:li ism:ownerProducer="USA" ism:classification="U">1) <xhtml:a href="http://metadata.ces.mil/dse/ns/GSIP/crs/WGS84C_3D">
http://metadata.ces.mil/dse/ns/GSIP/crs/WGS84C_3D</xhtml:a> --
representing World Geodetic System 1984 - Earth Centered, Earth Fixed
(ECEF), where the X axis is mass center - equator/prime meridian, and
the units are meters; the Y axis is mass center - equator/90° E, and the
units are meters; and the Z axis is mass center - North Pole, and the
units are meters. OR </xhtml:li>
  <xhtml:li ism:ownerProducer="USA" ism:classification="U">2) <xhtml:a href="http://metadata.ces.mil/mdr/ns/GSIP/crs/WGS84E_2D">
http://metadata.ces.mil/mdr/ns/GSIP/crs/WGS84E_2D</xhtml:a> --
representing World Geodetic System 1984 - Geographic, 2-Dimensional,
where latitude is north positive, measured in degrees; and latitude is
east positive, measured in degrees. OR</xhtml:li>
  <xhtml:li ism:ownerProducer="USA" ism:classification="U">3) <xhtml:a href="http://metadata.ces.mil/dse/ns/GSIP/crs/WGS84E_3D">
http://metadata.ces.mil/dse/ns/GSIP/crs/WGS84E_3D</xhtml:a> --
representing World Geodetic System 1984 - Geographic, 3-Dimensional,
where latitude is north positive, measured in degrees; and latitude is
east positive, measured in degrees; and height is height above
ellipsoid, measured in meters. See also: <xhtml:a href="http://earth-info.nga.mil/GandG/publications/tr8350.2/tr8350_2.html">
http://earth-info.nga.mil/GandG/publications/tr8350.2/tr8350_2.html.</xhtml:a>
For gml:pos elements populating the
gml:Polygon/gml:exterior/gml:LinearRing/gml:pos element the following
guidance should be followed: <xhtml:ul>
  <xhtml:li ism:ownerProducer="USA" ism:classification="U">1. Latitude
shall be in decimal degrees in the range -90° less than or equal
to latitude greater than or equal to +90°.</xhtml:li>
  <xhtml:li ism:ownerProducer="USA" ism:classification="U">2. North
latitudes shall be positive, south latitudes shall be
negative.</xhtml:li>
  <xhtml:li ism:ownerProducer="USA" ism:classification="U">3.
Longitude shall be in decimal degrees in the range -180° less
than or equal to longitude greater than or equal to +180°; note
that there are two equally acceptable values of longitude for
the meridian opposite the prime meridian.</xhtml:li>
  <xhtml:li ism:ownerProducer="USA" ism:classification="U">4. East
longitudes shall be positive, west longitudes shall be
negative.</xhtml:li>
  <xhtml:li ism:ownerProducer="USA" ism:classification="U">5. Only the
element gml:pos shall be used to encode a geographic point

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        location as either: a. two decimal values in the order of
        latitude then longitude (no commas) when WGS84E_2D, or b. three
        decimal values in the order latitude, longitude and finally
        height above ellipsoid (no commas) when using the WGS84E_3D
        CRS.</xhtml:li>
        <xhtml:li ism:ownerProducer="USA" ism:classification="U">6. The
        outside edge of a linearRing is defined by four or more
        coordinate tuples, in counter- clockwise order, with linear
        interpolation between them; the first and last coordinates must
        be identical.</xhtml:li>
    </xhtml:ul>
</xhtml:li>
<xhtml:li ism:ownerProducer="USA" ism:classification="U"> Developer's Note:
The srsName attribute is required on the Polygon element. The
Polygon/@srsName is the identifier for the CRS which is controlling for
the child gml:pos elements. It is important to note that the srsName
attribute may also appear on the gml:pos elements, however given the
current allowable CRSs above there is no need to repeat the information
on the gml:pos elements thus the srsName attribute is optional and not
required. If the srsName does appear on the gml:pos elements then it
must be the same as the value of the srsName attribute on the Polygon
element. </xhtml:li>
</xhtml:ul>
</xhtml:p>
</xsd:documentation>
</xsd:annotation>
<xsd:choice maxOccurs="unbounded">
    <xsd:element ref="tspi:Polygon">
        <xsd:annotation>
            <xsd:documentation>
                <xhtml:p ism:classification="U"
                    ism:ownerProducer="USA"
                    data-ded="ded:Definition">ded:Definition: An element under
                    boundingGeometry that specifies a geospatial area as profiled from ISO
                    19136:2007 (GML) for use in the TSPI Schema but extended to include both
                    assessments of the accuracy and/or resolution of the coordinate tuples
                    as well as optional specification of one or more character-oriented
                    presentations of one or more character-oriented presentations of the
                    coordinate tuples based on the sexagesimal, grid-metre, zone-metre,
                    quadrangle and/or numeric-bit location forms.</xhtml:p>
                    <xhtml:p ism:classification="U"
                        ism:ownerProducer="USA"
                        data-ded="ded:Obligation">ded:Obligation: (Conditional) If
                        boundingGeometry is the selected geospatialCoverage specification, it
                        requires one of Polygon, Point, Envelope, Circle, or Ellipse.</xhtml:p>
                    <xhtml:p ism:classification="U"
                        ism:ownerProducer="USA"
                        data-ded="ded:Comment">ded:Comment: The gml:Polygon element is used to
                        describe a closed, geographic areas using a list of coordinates. TSPI
                        encodes Polygon as a gml:AbstractSurface, permitting the use of
                        substitution groups of SimplePolygon, SimpleRectable, Envelope,
                        CircularSurface, and EllipticalSurface. Details for the structure and
                        encoding of Polygon are detailed in the TSPI specification and it's
                        source schemas.</xhtml:p>
            </xsd:documentation>
        </xsd:annotation>
    </xsd:element>
</xsd:choice>

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    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
<xsd:element ref="tspi:Point">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Definition">ded:Definition: An element under
        boundingGeometry that specifies a position using a single coordinate
        tuple. See also ISO 19136.</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Obligation">ded:Obligation: (Conditional) IF
        boundingGeometry is the selected geospatialCoverage specification, it
        requires one of Polygon, Point, Envelope, Circle, or Ellipse.</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Comment">ded:Comment: The gml:Point element is used to
        specify a position using coordinates. The gml:Point element uses the
        gml:SRSReferenceGroupSRSNameRequired to provide a set of common
        attributes to indicate the spatial reference system for the coordinates.
        Multiple Point elements are permitted by the IRM Schema. Details for the
        structure and encoding of Point are detailed in the TSPI specification
        and it's source schemas.</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
<xsd:element ref="tspi:Envelope">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Definition">ded:Definition: An element under
        boundingGeometry that specifies a geospatial area based on ISO
        19136:2007 (GML) Envelope for use in the TSPI Schema but extended to
        include both assessments of the accuracy and/or resolution of the pair
        of coordinate tuples as well as optional specification of one or more
        character-oriented presentations of the pair of coordinate tuples based
        on the sexagesimal, grid-metre, zone-metre, quadrangle and/or
        numeric-bit location forms.</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Obligation">ded:Obligation: (Conditional) if
        boundingGeometry is the selected geospatialCoverage specification, it
        requires one of Polygon, Point, Envelope, Circle, or Ellipse.</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Comment">ded:Comment: An envelope defines an extent using
        a pair of positions defining opposite corners in arbitrary dimensions
        based on ISO 19136:2007 (GML) Envelope for use in the TSPI Schema but
        extended to include both assessments of the accuracy and/or resolution
        of the pair of coordinate tuples as well as optional specification of
        one or more character-oriented presentations of the pair of coordinate

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tuples based on the sexagesimal, grid-metre, zone-metre, quadrangle
and/or numeric-bit location forms. The first direct position is the
"lower corner" (a coordinate position consisting of all the minimal
ordinates for each dimension for all points within the envelope), the
second one the "upper corner" (a coordinate position consisting of all
the maximal ordinates for each dimension for all points within the
envelope). TSPI encodes Envelope as a gml:AbstractSurface, permitting
the use of substitution groups of SimplePolygon, SimpleRectangle,
Envelope, CircularSurface, and EllipticalSurface. Details for the
structure and encoding of Envelope are detailed in the TSPI
specification and it's source schemas.</xhtml:p>
  </xsd:documentation>
</xsd:annotation>
</xsd:element>
<xsd:element ref="tspi:Circle">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Definition">ded:Definition: Tspi:circle is profiled from
GML 3.3 (OGC 10-129r1) SimpleCircleyByCenterPoint for use in the TSPI
Schema but extended to include both assessments of the accuracy and/or
resolution of the center point coordinate tuple as well as optional
specification of one or more character-oriented presentations of the
center point coordinate tuple based on the sexagesimal, grid-metre,
zone-metre, quadrangle and/or numeric-bit location forms.</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Obligation">ded:Obligation: (Conditional) if
boundingGeometry is the selected geospatialCoverage specification, it
requires one of Polygon, Point, Envelope, Circle, or Ellipse</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Comment">ded:Comment: A circle is an arc by center point
with identical start and end angles to form a full circle. This
representation can be used only in 2D. Details for the structure and
encoding of Circle are detailed in the TSPI specification and it's
source schemas.</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
<xsd:element ref="tspi:Ellipse">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Definition">ded:Definition: Tspi:Ellipse is a surface that
is bounded by an ellipse, as developed based on ISO 19136:2007 (GML)
Polygon for use in the TSPI Schema but defined in terms of the content
model of an ellipse and extended to include both assessments of the
accuracy and/or resolution of the coordinate tuples as well as optional
specification of one or more character-oriented presentations of the
coordinate tuples based on the sexagesimal, grid-metre, zone-metre,
quadrangle and/or numeric-bit location forms.</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>

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        <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Obligation">ded:Obligation: (Conditional) if
boundingGeometry is the selected geospatialCoverage specification, it
requires one of Polygon, Point, Envelope, Circle, or Ellipse </xhtml:p>
        <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment">ded:Comment: An ellipse is an arc that is
specified by a center point, and oriented semi-major/semi-minor axes of
specified length. This representation can be used only in 2D. Details
for the structure and encoding of Ellipse are detailed in the TSPI
specification and it's source schemas. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:element name="WKTGeometry" type="xsd:string">
    <xsd:annotation>
        <xsd:documentation>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Definition">ded:Definition: The Well-known Text (WKT)
representation of a vector geometric object on a map related to the
resource utilizing Simple Feature Access which is both an Open
Geospatial Consortium (OGC) standard <xhtml:a href="http://www.opengeospatial.org/standards/sfa">
http://www.opengeospatial.org/standards/sfa</xhtml:a> and
International Organization for Standardization (ISO) standard ISO 19125
<xhtml:a href="https://www.iso.org/standard/40114.html">
https://www.iso.org/standard/40114.html</xhtml:a> that specifies a
common storage and access model of mostly two-dimensional geometries
(point, line, polygon, multi-point, multi-line, etc.) used by geographic
information systems. </xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Comment"/>
        </xsd:documentation>
    </xsd:annotation>
</xsd:element>
</xsd:choice>
</xsd:complexType>

<xsd:complexType name="CompoundCategoryIdentifierType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Type
used to model the attributes of the irm:category element. The UCore taxonomy is
a specific use of category that is permitted. Allowed attribute extension for
allowing automated populators to give extra values for confidence and
relativity. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:attribute name="qualifier" type="xsd:anyURI" use="optional">

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<xsd:annotation>
  <xsd:documentation>&#x2028;
    <xhtml:p ism:classification="U"
      ism:ownerProducer="USA"
      data-ded="ded:Definition">ded:Definition: An attribute of the category
element. A category qualifier specifies the source of the vocabulary for the
category.</xhtml:p>
    <xhtml:p ism:classification="U"
      ism:ownerProducer="USA"
      data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
    <xhtml:p ism:classification="U"
      ism:ownerProducer="USA"
      data-ded="ded:Comment">ded:Comment: Specifies the domain vocabulary of which the category code is
a member.</xhtml:p>
  </xsd:documentation>
</xsd:annotation>
</xsd:attribute>
<xsd:attribute name="code" type="irm:simpleTokenType" use="optional">
  <xsd:annotation>
    <xsd:documentation>&#x2028;
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Definition">ded:Definition: An attribute of the category
element. The machine readable description of a concept represented within
the scope of the category qualifier.</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Comment"/>
    </xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="label" type="irm:simpleTokenType" use="required">
  <xsd:annotation>
    <xsd:documentation>&#x2028;
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Definition">ded:Definition: An attribute of the category
element. The human readable representation of the concept that corresponds
to the category qualifier and the category code, if they exist.</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Obligation">ded:Obligation: (Conditional) mandatory when the
category element is included.</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Comment"/>
    </xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attributeGroup ref="irm:SecurityAttributesOptionGroup"/>
<xsd:anyAttribute namespace="##other" processContents="lax">

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    <xsd:annotation>
      <xsd:documentation>&#x2028;
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Definition">ded:Definition: The category element allows for
the definition of additional attributes as extensions of the IRM
definition.</xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Comment">ded:Comment: The category allows extendible attributes for systems that
keep track of metadata such as confidence level and relevance.</xhtml:p>
      </xsd:documentation>
    </xsd:annotation>
  </xsd:anyAttribute>
</xsd:complexType>

<xsd:complexType name="CompoundCountryCodeIdentifierType">
  <xsd:annotation>
    <xsd:documentation>The codespace attribute holds the codespace identifying the standard
being used. The code attribute holds the two-alpha, three-alpha, or numeric code
identifying the country. </xsd:documentation>
  </xsd:annotation>
  <xsd:attribute name="codespace" type="irm:simpleTokenType" use="required">
    <xsd:annotation>
      <xsd:documentation>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Definition">ded:Definition: An attribute of countryCode and
subDivisionCode that contains the codespace identifying the standard being
used.</xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Obligation">ded:Obligation: (Conditional) Mandatory if
countryCode is present. Mandatory if subDivisionCode is present.</xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Comment">ded:Comment: Specifies the domain vocabulary of which the Country Code is a
member. Acceptable values should indicate 2 or 3 digit code vocabularies
from the Geopolitical Entities, Names, and Code (GENC) Standard.</xhtml:p>
      </xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>
  <xsd:attribute name="code" type="irm:simpleTokenType" use="required">
    <xsd:annotation>
      <xsd:documentation>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Definition">ded:Definition: An attribute of countryCode and
subDivisionCode that contains two-alpha, three-alpha, or numeric code in
either full or short urn form according to the GENC standard, identifying
the country.</xhtml:p>

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        <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Obligation">ded:Obligation: (Conditional) Mandatory if
countryCode is present. Mandatory if subDivisionCode is present.</xhtml:p>
        <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment">ded:Comment: A permissible value according to the vocabulary specified in
the codespace.</xhtml:p>
    </xsd:documentation>
</xsd:annotation>
</xsd:attribute>
</xsd:complexType>

<xsd:complexType name="CompoundKeywordIdentifierType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Type
used to model the irm:keyword element. Allowed extension for allowing automated
populators to give extra values for confidence and relativity. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:attribute name="value" type="irm:simpleTokenType" use="required">
        <xsd:annotation>
            <xsd:documentation>
                <xhtml:p ism:classification="U"
                    ism:ownerProducer="USA"
                    data-ded="ded:Definition">ded:Definition: value is an attribute of the key
word element. An important word or concept that is addressed in the
resource.</xhtml:p>
                <xhtml:p ism:classification="U"
                    ism:ownerProducer="USA"
                    data-ded="ded:Obligation">ded:Obligation: (Mandatory) when the keyword
element is included.</xhtml:p>
                <xhtml:p ism:classification="U"
                    ism:ownerProducer="USA"
                    data-ded="ded:Comment">ded:Comment: Each keyword element requires a value.</xhtml:p>
            </xsd:documentation>
        </xsd:annotation>
    </xsd:attribute>
    <xsd:attributeGroup ref="irm:SecurityAttributesOptionGroup"/>
    <xsd:anyAttribute namespace="##other" processContents="lax">
        <xsd:annotation>
            <xsd:documentation>
                <xhtml:p ism:classification="U"
                    ism:ownerProducer="USA"
                    data-ded="ded:Definition">ded:Definition: The keyword element allows for the
definition of additional attributes as extensions of the IRM
definition.</xhtml:p>
                <xhtml:p ism:classification="U"
                    ism:ownerProducer="USA"
                    data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
                <xhtml:p ism:classification="U"
                    ism:ownerProducer="USA"
                    data-ded="ded:Comment">ded:Comment: The keyword allows extendible attributes for systems that keep

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        track of meatdata such as confidence level and relevance.</xhtml:p>
    </xsd:documentation>
</xsd:annotation>
</xsd:anyAttribute>
</xsd:complexType>

<xsd:complexType name="CompoundLanguageIdentifierType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:CategoryDescription">ded:CategoryDescription: The primary language
of the intellectual content of the resource.</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:CategorySource">ded:CategorySource: DCMI: language, v.
004</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:CategoryComment">ded:CategoryComment: The category includes one
element, language. The most specific in-scope language present (if any) should
be specified. The language element can be repeated as needed with no quantity
limit.</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Definition">ded:Definition: An element that contains a primary language of the intellectual
content of the resource. The primary language of the intellectual content of the
resource. {Source: DCMI: language, v. 004IC MSP v. 1.0a: Language} The most
specific in-scope language present (if any) should be specified in this
category. See IRM Spec Category: Language.</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Comment">ded:Comment: The language element can be repeated as needed with no quantity
limit.</xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
<xsd:attribute name="qualifier" use="required" type="irm:simpleTokenType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Definition">ded:Definition: An attribute of language that
holds the value that specifies the originating agency or discipline of the
language vocabulary. The value that specifies the originating agency or
discipline of the language vocabulary. Specifies the domain vocabulary of
which the Language Value is a member. ISO 639-1 and ISO 639-2, Codes for the
representation of names of languages, reference 2 and 3 digit language
codes.</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Obligation">ded:Obligation: (Mandatory)</xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
</xsd:complexType>
</xsd:element>
</xsd:schema>
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        <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment">ded:Comment: Specifies the domain vocabulary of which the language value is
a member. ISO 639-1 and ISO 639-2, Codes for the representation of names or
languages, reference 2 and 3 digit language codes.</xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="value" use="required" type="irm:simpleTokenType">
    <xsd:annotation>
        <xsd:documentation>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Definition">ded:Definition: An attribute of language that
holds the identification of the content language. The primary language of
the intellectual content of the resource. {Source: DCMI:= language, v. 004IC
MSP v. 1.0a: Language} The most specific in-scope language present (if any)
should be specified in this category.</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Obligation">ded:Obligation: (Mandatory)</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Comment">ded:Comment: Must be a valid code from the vocabulary in the language
qualifier.</xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
</xsd:complexType>

<xsd:complexType name="CompoundResourceIdentifierType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Used
to represent a Resource Identifier. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:attribute name="qualifier" type="xsd:anyURI" use="required">
        <xsd:annotation>
            <xsd:documentation>
                <xhtml:p ism:classification="U"
                    ism:ownerProducer="USA"
                    data-ded="ded:Definition">ded:Definition: An attribute of identifier and
relatedResource that contains a URI specifying the formal identification
system or encoding scheme by which the identifier value is to be
interpreted.</xhtml:p>
                <xhtml:p ism:classification="U"
                    ism:ownerProducer="USA"
                    data-ded="ded:Obligation">ded:Obligation: (Mandatory)</xhtml:p>
                <xhtml:p ism:classification="U"
                    ism:ownerProducer="USA"
                    data-ded="ded:Comment">ded:Comment: Specifies the type of identifier or relatedResource that is
supplied in the identifier or relatedResource value.</xhtml:p>
            </xsd:documentation>
        </xsd:annotation>
    </xsd:attribute>

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        </xsd:annotation>
      </xsd:attribute>
      <xsd:attribute name="value" type="irm:simpleTokenType" use="required">
        <xsd:annotation>
          <xsd:documentation>
            <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:Definition">ded:Definition: An attribute of identifier and
relatedResource that contains an unambiguous reference to the resource
within a given context. An internal, external, and/or universal
identification number for a data asset or resource.</xhtml:p>
            <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:Obligation">ded:Obligation: (Mandatory)</xhtml:p>
            <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:Comment">ded:Comment: Permissible values must conform to the value supplied in
identifier and relatedResource qualifier.</xhtml:p>
          </xsd:documentation>
        </xsd:annotation>
      </xsd:attribute>
    </xsd:complexType>

    <xsd:complexType name="CompoundSourceIdentifierType">
      <xsd:annotation>
        <xsd:documentation>&#x2028;
          <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Type
used to model the irm:source element. </xhtml:p>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:attribute name="qualifier" type="irm:simpleTokenType" use="optional">
        <xsd:annotation>
          <xsd:documentation>
            <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:Definition">ded:Definition: An attribute of source that
specifies a formal identification system used to reference a
source.</xhtml:p>
            <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
            <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:Comment">ded:Comment: Specifies the domain identification system that defines the
format of source value.</xhtml:p>
          </xsd:documentation>
        </xsd:annotation>
      </xsd:attribute>
      <xsd:attribute name="value" type="irm:simpleTokenType" use="optional">
        <xsd:annotation>
          <xsd:documentation>
            <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:Definition">ded:Definition: An attribute of source that

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specifies the identifier of a referenced source.</xhtml:p>
    <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
    <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:Comment">ded:Comment: source value can be specified without listing the source
qualifier.</xhtml:p>
  </xsd:documentation>
</xsd:annotation>
</xsd:attribute>
<xsd:attribute name="schemaQualifier" type="irm:simpleTokenType" use="optional">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Definition">ded:Definition: An attribute of source that
specifies the schema type used to identify the format of the
resource.</xhtml:p>
      <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
      <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Comment">ded:Comment: If a schema defines the format of the data asset, then this
element should be used. For example, if the data asset is an XML document
that conforms to an XML Schema document then this element would contain the
value "XSD". Other possible values may include RNG, WSDL, SQL,
etc.</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="schemaHref" type="xsd:anyURI" use="optional">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Definition">ded:Definition: An attribute of source that
specifies a resolvable reference to the schema for the data asset.</xhtml:p>
      <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
      <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Comment"/>
    </xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attributeGroup ref="irm:SecurityAttributesOptionGroup"/>
</xsd:complexType>

<xsd:complexType name="CompoundTypeIdentifierType">
  <xsd:annotation>
    <xsd:documentation>&#x2028;

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        <xhtml:p ism:ownerProducer="USA" ism:classification="U">
Types used to model the type element. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
        <xsd:extension base="xsd:string">
            <xsd:attribute name="qualifier" use="required" type="irm:simpleTokenType">
                <xsd:annotation>
                    <xsd:documentation>
                        <xhtml:p ism:classification="U"
                            ism:ownerProducer="USA"
                            data-ded="ded:Definition">ded:Definition: An attribute of type that
specifies the source of the type vocabulary.</xhtml:p>
                        <xhtml:p ism:classification="U"
                            ism:ownerProducer="USA"
                            data-ded="ded:Obligation">ded:Obligation: (Mandatory)</xhtml:p>
                        <xhtml:p ism:classification="U"
                            ism:ownerProducer="USA"
                            data-ded="ded:Comment">ded:Comment: Specifies the domain vocabulary
of which the type value is a member.</xhtml:p>
                    </xsd:documentation>
                </xsd:annotation>
            </xsd:attribute>
            <xsd:attribute name="value" use="required" type="irm:simpleTokenType">
                <xsd:annotation>
                    <xsd:documentation>
                        <xhtml:p ism:classification="U"
                            ism:ownerProducer="USA"
                            data-ded="ded:Definition">ded:Definition: An attribute of type that
contains terms describing general categories, functions, genres, or
aggregation levels for content.</xhtml:p>
                        <xhtml:p ism:classification="U"
                            ism:ownerProducer="USA"
                            data-ded="ded:Obligation">ded:Obligation: (Mandatory)</xhtml:p>
                        <xhtml:p ism:classification="U"
                            ism:ownerProducer="USA"
                            data-ded="ded:Comment">ded:Comment: Must be a valid code from the
vocabulary specified in the type qualifier.</xhtml:p>
                    </xsd:documentation>
                </xsd:annotation>
            </xsd:attribute>
            <xsd:attributeGroup ref="irm:SecurityAttributesOptionGroup"/>
        </xsd:extension>
    </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="CompoundWaterBodyIdentifierType">
    <xsd:annotation>
        <xsd:documentation>The codespace attribute holds the codespace identifying the standard
being used. The code attribute holds a three-alphanumeric code
identifying the body of water. </xsd:documentation>
    </xsd:annotation>
    <xsd:attribute name="codespace" type="irm:simpleTokenType" use="required">
        <xsd:annotation>

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        <xsd:documentation>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Definition">ded:Definition: An attribute of waterBody
that contains the codespace identifying the standard being
used.</xhtml:p>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Obligation">ded:Obligation: (Conditional) Mandatory if
waterBody is present.</xhtml:p>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment">ded:Comment: Specifies the domain vocabulary of which the waterBody is a
member. Acceptable values should indicate 3 digit code vocabulary
from the GEOINT Standards Working Group's (GWG) NGA.SIG.0038_v.99_CWWN, Codes for World Waterbody Names (CWWN).
        </xhtml:p>
      </xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>
  <xsd:attribute name="code" type="irm:simpleTokenType" use="required">
    <xsd:annotation>
      <xsd:documentation>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Definition">ded:Definition: An attribute of waterBody that contains a three-alpha numeric
code according to GEOINT Standards Working Group's (GWG) NGA.SIG.0038_v.99_CWWN, Codes for World Waterbody Names (CWWN)
identifying the waterBody.</xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Obligation">ded:Obligation: (Conditional) Mandatory if
waterBody is present.</xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Comment">ded:Comment: A permissible value according to the vocabulary specified in
the codespace.</xhtml:p>
      </xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>
</xsd:complexType>

<xsd:complexType name="ContactInfoType">
  <xsd:annotation>
    <xsd:documentation>&#x2028;
      <xhtml:p ism:ownerProducer="USA" ism:classification="U">Type
used to model the irm:creator, irm:publisher, irm:contributor, and
irm:pointOfContact elements. </xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:choice>
    <xsd:element ref="irm:organization"/>
    <xsd:element ref="irm:person"/>
    <xsd:element ref="irm:service"/>
    <xsd:element ref="irm:unknown"/>
  </xsd:choice>

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    <xsd:attributeGroup ref="irm:POCAttributesGroup"/>
  </xsd:complexType>

  <xsd:complexType name="DatesType">
    <xsd:annotation>
      <xsd:documentation>&#x2028;
        <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Type
used for the dates element. </xhtml:p>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:sequence minOccurs="0">
      <xsd:element name="acquiredOn"
        type="irm:ApproximableDateType"
        minOccurs="0"
        maxOccurs="unbounded">
        <xsd:annotation>
          <xsd:documentation>&#x2028;
            <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:Definition">ded:Definition: An
optional, repeatable element of dates that provides an approximable date
on which information in a product was acquired. Date of acquisition of
the information.</xhtml:p>
            <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
            <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:Comment"/>
          </xsd:documentation>
        </xsd:annotation>
      </xsd:element>
    </xsd:sequence>
    <xsd:attribute name="created" type="irm:CombinedDateType" use="optional">
      <xsd:annotation>
        <xsd:documentation>&#x2028;
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Definition">ded:Definition: An attribute of dates that
provides the date of creation of the resource. Date of creation of the
resource.</xhtml:p>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment"/>
        </xsd:documentation>
      </xsd:annotation>
    </xsd:attribute>
    <xsd:attribute name="posted" type="irm:CombinedDateType" use="optional">
      <xsd:annotation>
        <xsd:documentation>&#x2028;
          <xhtml:p ism:classification="U"

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        ism:ownerProducer="USA"
        data-ded="ded:Definition">ded:Definition: An attribute of dates that
        provides the date a product is posted to a shared network or system. The
        date a product is posted to a shared network or system.</xhtml:p>
        <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
        <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Comment"/>
    </xsd:documentation>
</xsd:annotation>
</xsd:attribute>
<xsd:attribute name="validTil" type="irm:CombinedDateType" use="optional">
    <xsd:annotation>
        <xsd:documentation>
            <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Definition">ded:Definition: An attribute of dates that
            provides the date that a product should be removed from a registry, index,
            or catalog. The date that a product should be removed from a registry,
            index, or catalog.</xhtml:p>
            <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
            <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment"/>
        </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="infoCutOff" type="irm:CombinedDateType" use="optional">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Definition">ded:Definition: An attribute of dates that
            provides the cutoff date of information in a product. This is commonly
            referred to as Information Cutoff Date (ICOD). It is the date of last input.
            The cutoff date of information in a product. This is commonly referred to as
            Information Cutoff Date (ICOD). It is the date of last input.</xhtml:p>
            <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
            <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment"/>
        </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="approvedOn" type="irm:CombinedDateType" use="optional">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:classification="U"

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        ism:ownerProducer="USA"
        data-ded="ded:Definition">ded:Definition: An attribute of dates that
        provides the date on which the resource was approved for publishing or
        posting. The date on which the resource was approved for publishing or
        posting.</xhtml:p>
        <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
        <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Comment"/>
    </xsd:documentation>
</xsd:annotation>
</xsd:attribute>
<xsd:attribute name="receivedOn" type="irm:CombinedDateType" use="optional">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
        <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Definition">ded:Definition: An attribute of dates that
        provides the date on which a product was received by an ingestion system
        from an external source. The date on which the resource was received for
        publishing or posting.</xhtml:p>
        <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
        <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Comment"/>
    </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
</xsd:complexType>

<xsd:complexType name="DescriptionType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
        <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Type
        used to model the description element. </xhtml:p>
    </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
        <xsd:extension base="irm:simpleTokenType">
            <xsd:attributeGroup ref="irm:SecurityAttributesGroup"/>
        </xsd:extension>
    </xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="FacilityIdentifierType">
    <xsd:annotation>
        <xsd:documentation>
            <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Definition">ded:Definition: An element under geographicIdentifier that provides a code that

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uniquely identifies an installation or facility.</xhtml:p>
  <xhtml:p ism:classification="U"
    ism:ownerProducer="USA"
    data-ded="ded:Obligation">ded:Obligation: (Conditional) a geographicIdentifier must have at least one of
name, region, countryCode, subDivisionCode or facilityIdentifier.</xhtml:p>
  <xhtml:p ism:classification="U"
    ism:ownerProducer="USA"
    data-ded="ded:Comment"/>
</xsd:documentation>
</xsd:annotation>
<xsd:attribute name="beNumber" type="irm:simpleTokenType" use="required">
  <xsd:annotation>
    <xsd:documentation>&#x2028;
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Definition">ded:Definition: An attribute of facilityIdentifier
that provides a DIA-specific identification number of a facility or
installation according to a grid location system. (GMI:BE_NUMBER, 1.0)
Uniquely identifies the installation of the facility. The BE_NUMBER is
generated based on the value input for the COORD to determine the
appropriate World Area Code (WAC), the system assigned record originator and
a one-up-number. Pos. 1-4, World Area Code (WAC). Pos. 5, A hyphen, '-', or
an 'E', in the fifth position indicates that position-6 will contain values
0-9. Alternately, the fifth position may contain the first of a
two-character system assigned record originator code, position-6 will then
contain the second character of the system assigned record originator code.
Pos. 6, May contain the second character of the system assigned record
originator code, the one-up-number series will then begin in position seven,
and range from 0001-9909. If the one-up-number series begins in position 6,
this position will contain the first of a five-position one-up-number, i.e.,
00001-99999.Pos. 7-10, A one-up-number series. Depending on the content of
position 5, the series may have begun in position 6 and have a range of
00001-99999. Or, have begun in position 7 and have a range from
0001-9999.</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Obligation">ded:Obligation: (Conditional) Mandatory if
facilityIdentifier is present.</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Comment">ded:Comment: If BE Number is supplied, no other elements are required to be
supplied in the Geospatial Coverage category.</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="osuffix" type="irm:simpleTokenType" use="optional">
  <xsd:annotation>
    <xsd:documentation>&#x2028;
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Definition">ded:Definition: An attribute of facilityIdentifier
that provides a specific identification number for a facility located at the
installation associated by the Facility BE Number. (GMI:OSUFFIX, 1.0)
Uniquely identifies a facility or demographic area in conjunction with a

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BE_NUMBER. Pos. 1-2. SYSTEM ASSIGNED RECORD_ORIGINATOR. The organization
creating the facility or demographic area. DIA installation records created
prior to IDB generation of OSUFFIX contain DD.Pos. 3-5 A one-up
number.</xhtml:p>
    <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
    <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:Comment">ded:Comment: Allowed only if BE Number is supplied.</xhtml:p>
  </xsd:documentation>
</xsd:annotation>
</xsd:attribute>
</xsd:complexType>

<!-- Types used to model the format element -->

<xsd:complexType name="FormatType">
  <xsd:annotation>
    <xsd:documentation>&#x2028;
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Type
used to model the irm:format element. </xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:element ref="irm:mimeType"/>
    <xsd:element ref="irm:extent" minOccurs="0"/>
    <xsd:element ref="irm:medium" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

<xsd:complexType name="MetacardInfoType">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:CategoryDescription">ded:CategoryDescription: Information about
the discovery assertion.</xhtml:p>
      <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:CategorySource">ded:CategorySource: DoD 5200.1-R; EO
12958</xhtml:p>
      <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:CategoryComment">ded:CategoryComment: This category consists of
one top-level element which contains metadata about the discovery assertion. The
mandatory element for the metacardInfo category is the metacardInfo element.
metacardInfo may be marked according to SMP guidelines.</xhtml:p>
      <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Definition">ded:Definition: This element contains metadata about the metadata card.
Information about the metadata card.</xhtml:p>
      <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
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        data-ded="ded:Obligation">ded:Obligation: (Mandatory)</xhtml:p>
    <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Comment">ded:Comment: One metacardInfo element must be present in an IRM record.
metacardInfo may be marked according to SMP guidelines.</xhtml:p>
    </xsd:documentation>
</xsd:annotation>
<xsd:sequence>
    <xsd:element ref="irm:identifier" maxOccurs="unbounded"/>
    <xsd:element ref="irm:dates"/>
    <xsd:choice minOccurs="0" maxOccurs="unbounded">
        <xsd:element ref="irm:creator" maxOccurs="unbounded"/>
        <xsd:element ref="irm:publisher" maxOccurs="unbounded"/>
        <xsd:element ref="irm:contributor" maxOccurs="unbounded"/>
        <xsd:element ref="irm:pointOfContact" maxOccurs="unbounded"/>
    </xsd:choice>
    <xsd:element ref="irm:description" minOccurs="0"/>
    <xsd:element ref="irm:processingInfo" minOccurs="0" maxOccurs="unbounded"/>
</xsd:sequence>
<xsd:attributeGroup ref="irm:SecurityAttributesOptionGroup"/>
</xsd:complexType>

<xsd:complexType name="NonStateActorCoverageType">
    <xsd:annotation>
        <xsd:documentation>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Definition">ded:Definition: Non-state actors that are within the scope of coverage for the
described item. Non-state actors that are within the scope of coverage for the
described item.</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Comment">ded:Comment: The number of nonStateActor elements that can be included in the
subjectCoverage element is unbounded. The nonStateActor element must be marked
according to SMP guidelines.</xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
        <xsd:extension base="irm:simpleTokenType">
            <xsd:attribute name="order" type="xsd:int" use="optional">
                <xsd:annotation>
                    <xsd:documentation>&#x2028;
                        <xhtml:p ism:classification="U"
                            ism:ownerProducer="USA"
                            data-ded="ded:Definition">ded:Definition: An
attribute of nonStateActor that specifies a user-defined order of an
element within the given document. All elements in the document
which specify the order attribute should be interpreted as entries
in a single, ordered list even though they may appear on different
elements. Values must be sequential, starting at 1, and may not
contain duplicates.</xhtml:p>

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        <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
        <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment">ded:Comment: Order is an integer. Values must
be sequential, starting at 1, and may not contain
duplicates.</xhtml:p>
    </xsd:documentation>
</xsd:annotation>
</xsd:attribute>
<xsd:attribute name="qualifier" type="xsd:anyURI" use="optional">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Definition">ded:Definition: An
attribute of the nonStateActor element, qualifier specifies the
source of the vocabulary for the nonStateActor.</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Comment">ded:Comment: Specifies the domain vocabulary
of which the nonStateActor is a member.</xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attributeGroup ref="irm:SecurityAttributesOptionGroup"/>
</xsd:extension>
</xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="OrganizationType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> The
type used to model the irm:Organization element. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:sequence minOccurs="0">
        <xsd:element name="name" type="irm:simpleTokenType" maxOccurs="unbounded">
            <xsd:annotation>
                <xsd:documentation>
                    <xhtml:p ism:classification="U"
                        ism:ownerProducer="USA"
                        data-ded="ded:Definition">ded:Definition: An element within organization
that contains the name of the organization.</xhtml:p>
                    <xhtml:p ism:classification="U"
                        ism:ownerProducer="USA"
                        data-ded="ded:Obligation">ded:Obligation: (Conditional) Mandatory if
organization is used.</xhtml:p>
                    <xhtml:p ism:classification="U"

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        ism:ownerProducer="USA"
        data-ded="ded:Comment">ded:Comment: There is no maximum number of name
    elements.</xhtml:p>
    </xsd:documentation>
</xsd:annotation>
</xsd:element>
<xsd:element name="phone"
    type="irm:simpleTokenType"
    minOccurs="0"
    maxOccurs="unbounded">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
        <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Definition">ded:Definition: An
element within organization that contains a telephone number. A
telephone number. Optional. This value must include country code and
area code, when applicable.</xhtml:p>
        <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
        <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment">ded:Comment: A telephone number at which the
organization can be contacted. There is no maximum number of phone
elements.</xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:element name="email"
    type="irm:simpleTokenType"
    minOccurs="0"
    maxOccurs="unbounded">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
        <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Definition">ded:Definition: An
element within organization that contains an address for electronic
email. An address for electronic mail.</xhtml:p>
        <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
        <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment">ded:Comment: There is no maximum number of email
elements.</xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:element name="subOrganization" minOccurs="0" maxOccurs="unbounded">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
        <xhtml:p ism:classification="U"

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        ism:ownerProducer="USA"
        data-ded="ded:Definition">ded:Definition: An
element within organization that contains a further refinement of the
organization.</xhtml:p>
        <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
        <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">ded:Comment: There is no maximum number of
subOrganization elements.</xhtml:p>
    </xsd:documentation>
</xsd:annotation>
<xsd:complexType>
    <xsd:simpleContent>
        <xsd:extension base="irm:simpleTokenType">
            <xsd:attributeGroup ref="irm:SecurityAttributesGroup"/>
        </xsd:extension>
    </xsd:simpleContent>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
<xsd:attribute ref="irm:acronym" use="optional"/>
</xsd:complexType>

<xsd:complexType name="PersonType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
        <xhtml:p ism:ownerProducer="USA" ism:classification="U"> The
type used to model the irm:Person element. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:sequence>
        <xsd:element name="name" type="irm:simpleTokenType" maxOccurs="unbounded">
            <xsd:annotation>
                <xsd:documentation>
                    <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">ded:Definition: An element within person that
contains a name given to a person at birth or baptism, in addition to a
surname.</xhtml:p>
                    <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Conditional) Mandatory if
person is used.</xhtml:p>
                    <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">ded:Comment: Example: "John Q", in "John Q. Doe",
There is no maximum number of name elements.</xhtml:p>
                    </xsd:documentation>
                </xsd:annotation>
            </xsd:element>
            <xsd:element name="surname" type="irm:simpleTokenType">
                <xsd:annotation>

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        <xsd:documentation>&#x2028;
        <html:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Definition">ded:Definition: An
element within person that contains a name shared in common to identify
members of a family; also called "last name." A name shared in common to
identify members of a family; also called "last name."</html:p>
        <html:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Obligation">ded:Obligation: (Conditional) Mandatory if
person is used.</html:p>
        <html:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment">ded:Comment: This value must contain a complete
last name, and cannot be an initial. Example: "Doe" in "John Q. Doe".
There must be only one surname element.</html:p>
        </xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:element name="phone"
    type="irm:simpleTokenType"
    minOccurs="0"
    maxOccurs="unbounded">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
        <html:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Definition">ded:Definition: An
element within person that contains a telephone number. A telephone
number. Optional. This value must include country code and area code,
when applicable. </html:p>
        <html:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Obligation">ded:Obligation: (Optional)</html:p>
        <html:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment">ded:Comment: This value must include country code
and area code, when applicable. There is no maximum number of phone
elements.</html:p>
        </xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:element name="email"
    type="irm:simpleTokenType"
    minOccurs="0"
    maxOccurs="unbounded">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
        <html:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Definition">ded:Definition: An
element within person that contains an address for electronic email. An
address for electronic mail.</html:p>
        <html:p ism:classification="U"

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        ism:ownerProducer="USA"
        data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
    <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Comment">ded:Comment: There is no maximum number of email
elements.</xhtml:p>
    </xsd:documentation>
</xsd:annotation>
</xsd:element>
<xsd:element name="userID" type="irm:simpleTokenType" minOccurs="0">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Definition">ded:Definition: An
element within person that contains a unique identifier applied by a
community or organization to an author, coauthor, POC, tasking requester
or addressee. Unique identifier applied by an agency to an author,
coauthor, POC, tasking requester or addressee.</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Comment">ded:Comment: If used, there can be only one
userID element.</xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
</xsd:element>
<xsd:element ref="irm:affiliation" minOccurs="0" maxOccurs="unbounded"/>
</xsd:sequence>
</xsd:complexType>

<!-- Models a GML compliant geographic identifier. See ISO 19115 EX_GeographicDescription. -->

<xsd:complexType name="PlaceType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:CategoryDescription">ded:CategoryDescription: Geographic place
names or coordinates that relate to the resource, such as a jurisdiction, point,
area, or volume on land, in space, or at sea.</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:CategorySource">ded:CategorySource: DCMI: spatial, v. 002; ISO
19115:2003; MARC 342 Geospatial Reference Data; Time-Space-Position Information
(TSPI) version 2.0; Federal Geographic Data Committee (FGDC) United States
Thoroughfare, Landmark, and Postal Address Data Standard</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:CategoryComment">ded:CategoryComment: The obligation of this
category is selected to show metadata creators that they must determine whether
the geographic reference subject matter of the resource is applicable for

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discovery purposes. The geospatialCoverage element structure of prior versions of DDMS (now IRM) has been revised and replaced with Time-Space-Position Information (TSPI) version 2.0-compliant structures. This permits the IRM definition of geospatial concepts to be consistent with standards used across the DoD and the international standards community. geospatialCoverage has a complex structure of elements and attributes. geospatialCoverage includes several optional attributes, and additionally can be marked according to SMP guidelines. There can be an unbounded number of geospatialCoverage elements, each of which must have at least one of geographicIdentifier, boundingGeometry, or postalAddress, and can include more than one of any of these elements as long as they address the same general location. A geographicIdentifier element may include a name, region, countryCode, subDivisionCode, or a facilityIdentifier, the last three being elements with attributes. There can be multiple geographicIdentifier elements of all types, within a geographicIdentifier element. A boundingGeometry element consists of one or more elements using a number of permitted Polygons (Polygon, Envelope, Circle, Ellipse, or Point), and can include multiples of each element. The ddms:boundingBox and ddms:verticalExtend of previous versions of DDMS had been deprecated and replaced with tspi:envelope, while additional geometries defined in TSPI have been included. Note that this is a subset of the polygons defined in TSPI. A postalAddress element uses the AbstractPhysicalAddress structure defined in TSPI. TSPI draws upon the Federal Geographic Data Committee (FGDC) United States Thoroughfare, Landmark, and Postal Address Data Standard. The technique used in the FGDC standard is the application of substitution groups for the AbstractPhysicalAddress element. Detailed information is available in the FGDC standard. The intent of the boundingGeometry elements (as part of the geospatial coverage category) is to provide a description of the frame of reference for the coordinates in a data set. To work with a geographic data set, a user must be able to identify how location accuracy has been affected through the application of a geospatial reference method, thus enabling the user to manipulate the data set to recover location accuracy. If BE Number is supplied, no other elements are required to be supplied in the Geospatial Coverage category. Note: The National Geospatial Intelligence Agency has taken the lead within the Department of Defense to develop an implementation of ISO 19136:2007 (GML). This standard is widely adopted and implemented within the Geospatial Intelligence commercial and user communities. NGA's strategy for the National System for Geospatial Intelligence is to adopt, profile (and extend) and use relevant standards. When encoding geospatial coordinates, the following guidelines should be followed: 1. Latitude shall be in decimal degrees in the range greater than equal -90 degrees and less than equal +90 degrees. 2. North latitudes shall be positive, south latitudes shall be negative. 3. Longitude shall be in decimal degrees in the range greater than -180 degrees and less than +180 degrees; note that there are two equally acceptable values of longitude for the meridian opposite the prime meridian. 4. East longitudes shall be positive, west longitudes shall be negative. 5. Only the element tspi:Point shall be used to encode a geographic point location as either: (1) two decimal values in the order of latitude then longitude (no commas) when WGS84E_2D, or (2) three decimal values in the order latitude then longitude then height above ellipsoid (no commas) when using the WGS84E_3D CRS. The intent of geospatial coverage is to provide logically and semantically consistent information. Flexibility in the specification does not absolve end users of geospatial coverage from expressing information in a meaningful manner. Users should ensure that combinations of elements are appropriately relatable, consistent, meaningful, and useful for enterprise discovery. The geospatialCoverage element can be marked according to SMP

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guidelines. </xhtml:p>
  <xhtml:p ism:classification="U"
    ism:ownerProducer="USA"
    data-ded="ded:Definition">ded:Definition: An element containing a geographic indication of one or more
places or facilities that relate to the resource. A geographic indication of one
or more places or facilities that relate to the resource. See IRM Spec Category:
Geospatial Coverage.</xhtml:p>
  <xhtml:p ism:classification="U"
    ism:ownerProducer="USA"
    data-ded="ded:Obligation">ded:Obligation: (Mandatory Unless Not Applicable)</xhtml:p>
  <xhtml:p ism:classification="U"
    ism:ownerProducer="USA"
    data-ded="ded:Comment">ded:Comment: There can be an unbounded number of geospatialCoverage elements,
each of which must have at least one child element of geographicIdentifier,
boundingGeometry, or postalAddress, and can include more than one of any or
these elements.</xhtml:p>
  </xsd:documentation>
</xsd:annotation>
<xsd:choice maxOccurs="unbounded">
  <xsd:element ref="irm:geographicIdentifier"/>
  <xsd:element ref="irm:boundingGeometry"/>
  <xsd:element ref="irm:postalAddress"/>
</xsd:choice>
<xsd:attribute name="precedence" type="irm:simpleTokenType" use="optional">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Definition">ded:Definition: An attribute of geospatialCoverage
that states the priority claimed or received as a result of preeminence.
When CountryCode has a value, this attribute is used to distinguish the
primary focus when a described data asset covers two or more countries.
Priority claimed or received as a result of preeminence. When used on the
element CountryCode, this attribute is used to distinguish the primary focus
when an intelligence product covers two or more countries. Permissible
values are Primary, Secondary.</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Comment">ded:Comment: This is a text field. Normal values are Primary or Secondary.
Priority claimed or received as a result of preeminence. When used on the
element CountryCode, this attribute is used to distinguish the primary focus
when an intelligence product covers two or more countries. Permissible
values are Primary, Secondary.</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
</xsd:attribute>
<xsd:attribute name="order" type="xsd:int" use="optional">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"

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        data-ded="ded:Definition">ded:Definition: An attribute of geospatialCoverage
        that specifies a user-defined order of an element (specifically when
        multiple countryCode and subDivisionCode elements exist) within the given
        IRM resource. Specifies a user-defined order of an element within the given
        document. All elements in the document which specify the order attribute
        should be interpreted as entries in a single, ordered list even though they
        may appear on different elements. Values must be sequential, starting at 1,
        and may not contain duplicates.</xhtml:p>
        <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
        <xhtml:p ism:classification="U"
        ism:ownerProducer="USA"
        data-ded="ded:Comment">ded:Comment: This is an integer entry. Values must be sequential, starting
        at 1, and may not contain duplicates.</xhtml:p>
    </xsd:documentation>
</xsd:annotation>
</xsd:attribute>
<xsd:attributeGroup ref="irm:SecurityAttributesOptionGroup"/>
</xsd:complexType>

<xsd:complexType name="ProcessingInfoType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:CategoryDescription">ded:CategoryDescription: This element
            provides information on how and when metadata was added to a metadata card
            post-production.</xhtml:p>
            <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:CategorySource"/>
            <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:CategoryComment">ded:CategoryComment: The processingInfo element
            must be marked according to SMP guidelines.</xhtml:p>
            <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Definition">ded:Definition: Information on how and when metadata was added to a metadata
            card post-production. Information about when and/or how a product was
            transformed post-publication, including adding metadata to a published product.
            Information on how and when metadata was added to a metadata card or a described
            data asset post-production.</xhtml:p>&#x2028;
            <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Obligation">ded:Obligation:
            (Optional)</xhtml:p>
            <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment">ded:Comment: The number of processingInfo elements is unbounded. In this
            context, processingInfo provides information on how and when metadata was added
            to a metadata card after the initial publication of the metadata card.
            processingInfo must be marked according to SMP guidelines.</xhtml:p>
        </xsd:documentation>
    </xsd:annotation>

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</xsd:annotation>
<xsd:simpleContent>
  <xsd:extension base="irm:simpleTokenType">
    <xsd:attribute name="dateProcessed" type="irm:CombinedDateType" use="required">
      <xsd:annotation>
        <xsd:documentation>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Definition">ded:Definition: An attribute of
processingInfo that specifies the date the processing
occurred.</xhtml:p>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Obligation">ded:Obligation: (Conditional) mandatory
when processingInfo is used.</xhtml:p>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment"/>
        </xsd:documentation>
      </xsd:annotation>
    </xsd:attribute>
    <xsd:attributeGroup ref="irm:SecurityAttributesGroup"/>
  </xsd:extension>
</xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="ProducerBaseType">
  <xsd:annotation>
    <xsd:documentation>&#x2028;
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> The
foundation of the ProducerType complexType. </xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:anyAttribute namespace="##other" processContents="lax"/>
</xsd:complexType>

<!-- Types used to model the extent element -->

<xsd:complexType name="QualifiedExtentValueType">
  <xsd:annotation>
    <xsd:documentation>&#x2028;
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Type
used to model the attributes of the irm:extent element. </xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:attribute name="qualifier" use="required" type="xsd:anyURI">
    <xsd:annotation>
      <xsd:documentation>&#x2028;
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Definition">ded:Definition: An attribute of extent that
provides the vocabulary that specifies the type of format extent that will
be supplied. A vocabulary that specifies the type of format extent that will
be supplied. The qualifier attribute indicates the type of extent value

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listed. In the case of data bytes, it may indicate "byte size". In the case of a document length, it may indicate "page count". In the case of streaming content, it may indicate "bits per second" or "frames per second".

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<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Mandatory)</xhtml:p>
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">ded:Comment: The qualifier attribute indicates the type of extent value
listed. In the case of data bytes, it may indicate 'byte size'. In the case
of a document length, it may indicate 'page count'. In the case of streaming
content, it may indicate 'bits per second' or 'frames per second'.</xhtml:p>
</xsd:documentation>
</xsd:annotation>
</xsd:attribute>
<xsd:attribute name="value" use="required" type="irm:simpleTokenType">
<xsd:annotation>
<xsd:documentation>&#x2028;
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">ded:Definition: An attribute of extent that
provides the related data size, compression rate, or pixel size (etc.) of
the resource. A related data size, compression rate, or pixel size (etc.) of
the resource.</xhtml:p>
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Mandatory)</xhtml:p>
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment"/>
</xsd:documentation>
</xsd:annotation>
</xsd:attribute>
</xsd:complexType>

<xsd:complexType name="RelatedResourcesType">
<xsd:annotation>
<xsd:documentation>&#x2028;
<xhtml:p ism:ownerProducer="USA" ism:classification="U"> The
type entity used by the irm:relationship element. Each irm:relatedResource
element designates the relationship and the directionality of the relationship
between the resource described by the parent irm:Resource and any
irm:RelatedResource elements.</xhtml:p>
</xsd:documentation>
</xsd:annotation>
<xsd:complexContent>
<xsd:extension base="irm:CompoundResourceIdentifierType">
<xsd:sequence>
<xsd:element name="link" maxOccurs="unbounded">
<xsd:annotation>
<xsd:documentation>&#x2028;
<xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">ded:Definition: An xLink:locatorLink element under

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relatedResource for the resource being related.</xhtml:p>
  <xhtml:p ism:classification="U"
    ism:ownerProducer="USA"
    data-ded="ded:Obligation">ded:Obligation: (Conditional)
Mandatory if relatedResource is present.</xhtml:p>
  <xhtml:p ism:classification="U"
    ism:ownerProducer="USA"
    data-ded="ded:Comment">ded:Comment: An XLink locator element,
see also http://www.w3.org/TR/xlink/</xhtml:p>
</xsd:documentation>
</xsd:annotation>
<xsd:complexType>
  <xsd:attributeGroup ref="xlink:locatorAttrs">
    <xsd:annotation>
      <xsd:documentation>&#x2028;
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Definition">ded:Definition: type: An attribute of link that
identifies the type of xlink element for this irm:link.
The value for the link type attribute is fixed to
"locator." In IRM this value indicates that the href
attribute value addresses the remote resource being
related. href: An attribute of link that specifies a URL
to the target related resource. role: An attribute of
link, role is a URI reference that identifies some
resource that describes the intended property. When no
value is supplied, no particular role value is to be
inferred. title: An attribute of link used to describe
the meaning of a link or resource in a human-readable
format, along the same lines as the role or arcrole
attribute. label: An attribute of link that provides a
name for the locator link, providing a way for an XLink
arc-type element to refer to it in creating a traversal
arc. </xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Obligation">ded:Obligation: type:
(Mandatory) href: (Mandatory) role: (Optional) title:
(Optional) label: (Optional) </xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Comment">ded:Comment: type: This attribute
is fixed as "locator" for the irm:link element. See
also, http://www.w3.org/TR/xlink/#remote-resource href:
See also, http://www.w3.org/TR/xlink/#link-locators.
role: See also,
http://www.w3.org/TR/xlink/#link-semantics. title: See
also, http://www.w3.org/TR/xlink/#link-semantics. lable:
See also, http://www.w3.org/TR/xlink/#traversal-atts
      </xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
</xsd:attributeGroup>
</xsd:complexType>

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    </xsd:element>
  </xsd:sequence>
  <xsd:attribute name="relationship" type="xsd:anyURI" use="required">
    <xsd:annotation>
      <xsd:documentation>&#x2028;
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Definition">ded:Definition: An
attribute of relatedResource, relationship is a URI defining the
type of relationship between the resource being described as the
primary subject of the metadata card and the resource referenced by
this element. Represents a relationship of some relationship type
between the resource described by the parent irm:Resource element
and another resource or resources.</xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Obligation">ded:Obligation: (Conditional) Mandatory if
relatedResource is present.</xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Comment">ded:Comment: URIs representing relationships
should be controlled by relationship type taxonomies that are
registered.</xhtml:p>
      </xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>
  <xsd:attribute name="direction" use="optional" default="outbound">
    <xsd:annotation>
      <xsd:documentation>&#x2028;
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Definition">ded:Definition: An
attribute of relatedResource used to indicate the direction of the
relationship between the resource being described and the target
related resource. Valid values are "inbound," "outbound," and
"bidirectional."</xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Comment">ded:Comment: Inbound: Used to indicate that
the relationship direction is from the related resource to the
resource being described. Outbound: Used to indicate that the
relationship direction is from the resource being described to the
related resource identified. Outbound is the default value.
Bidirectional: Used to indicate that the relationship is
bidirectional between the resource being described and the related
resource identified. </xhtml:p>
      </xsd:documentation>
    </xsd:annotation>
  <xsd:simpleType>
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="inbound">

```

```

        <xsd:annotation>
          <xsd:documentation>&#x2028;
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Used to indicate that the
              relationship direction is from the related resource to
              the resource described in the instance IRM record.
            </xhtml:p>
          </xsd:documentation>
        </xsd:annotation>
      </xsd:enumeration>
      <xsd:enumeration value="outbound">
        <xsd:annotation>
          <xsd:documentation>&#x2028;
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Used to indicate that the
              relationship direction is from the resource described in
              the instance IRM record to the related resource
              identified. </xhtml:p>
          </xsd:documentation>
        </xsd:annotation>
      </xsd:enumeration>
      <xsd:enumeration value="bidirectional">
        <xsd:annotation>
          <xsd:documentation>&#x2028;
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Used to indicate that the
              relationship is bidirectional between the resource
              described in the instance IRM record and the related
              resource identified. </xhtml:p>
          </xsd:documentation>
        </xsd:annotation>
      </xsd:enumeration>
    </xsd:restriction>
  </xsd:simpleType>
</xsd:attribute>
<xsd:attributeGroup ref="irm:SecurityAttributesOptionGroup"/>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

<!-- Types used to model the resourceManagment element-->

<xsd:complexType name="ResourceManagementType">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:ownerProducer="USA" ism:classification="U">
        Information on resource management (ie. tasking, processing).
      </xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:element name="taskingInfo"
      type="irm:TaskingInfoType"
      minOccurs="0"
      maxOccurs="unbounded">
    </xsd:element>
  </xsd:sequence>
  <xsd:annotation>
    <xsd:documentation>&#x2028;

```



```

        <xhtml:p ism:ownerProducer="USA" ism:classification="U">Information about who requested resource be
        produced.</xhtml:p>
      </xsd:documentation>
    </xsd:annotation>
  </xsd:element>
  <xsd:element ref="irm:processingInfo" minOccurs="0" maxOccurs="unbounded"/>
</xsd:sequence>
<xsd:attributeGroup ref="irm:SecurityAttributesOptionGroup"/>
</xsd:complexType>

<xsd:complexType name="RightsType">
  <xsd:annotation>
    <xsd:documentation>&#x2028;
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Type
used to model the rights element. </xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:attribute name="intellectualProperty" type="xsd:boolean" default="false">
    <xsd:annotation>
      <xsd:documentation>&#x2028;
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Definition">ded:Definition: An attribute of rights that holds
an indicator identifying products under protection against reproduction and
distribution without the express written permission of the intellectual
property rights owner. An indicator identifying products under protection
against reproduction and distribution without the express written permission
of the intellectual property rights owner. A yes/no value used to specify
applicability of the rights. The default is "no". {False = No}</xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Comment">ded:Comment: A true/false value used to specify applicability of the
rights. The default is "false".</xhtml:p>
      </xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>
  <xsd:attribute name="copyright" type="xsd:boolean" default="false">
    <xsd:annotation>
      <xsd:documentation>&#x2028;
        <xhtml:p ism:classification="U"
          ism:ownerProducer="USA"
          data-ded="ded:Definition">ded:Definition: An attribute of rights that holds
an indicator identifying products under protection against reproduction and
distribution without the express written permission of the copyright owner.
An indicator identifying products under protection against reproduction and
distribution without the express written permission of the copyright owner.
A yes/no value used to specify applicability of the rights. The default is
"no". {False = No} (TBD:CopyrightIndicator, 1.0) An indicator identifying
documents under protection against reproduction and distribution without the
express written permission of the copyright owner This prohibition is
binding on individuals and corporations, as well as the US Government.
      </xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>
</xsd:complexType>
```

Examples of applicability: books (yes), newspaper photos (yes), US Federal Publications (no), magazine articles (yes), vendor technical information (yes).

```

</xhtml:p>
  <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
  <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment">ded:Comment: A true/false value used to specify applicability of the
rights. The default is "false".</xhtml:p>
</xsd:documentation>
</xsd:annotation>
</xsd:attribute>
</xsd:complexType>

<xsd:complexType name="TaskingInfoType">
  <xsd:annotation>
    <xsd:documentation>&#x2028;
      <xhtml:p ism:ownerProducer="USA" ism:classification="U">Information about who requested resource be
produced.</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:element name="requesterInfo" minOccurs="0" maxOccurs="unbounded">
      <xsd:annotation>
        <xsd:documentation>&#x2028;
          <xhtml:p ism:ownerProducer="USA" ism:classification="U">Information about the requestor.</xhtml:p>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:complexType>
        <xsd:choice>
          <xsd:element ref="irm:person"/>
          <xsd:element ref="irm:organization"/>
        </xsd:choice>
        <xsd:attributeGroup ref="irm:SecurityAttributesGroup"/>
      </xsd:complexType>
    </xsd:element>
    <xsd:element name="addressee" minOccurs="0" maxOccurs="unbounded">
      <xsd:annotation>
        <xsd:documentation>&#x2028;
          <xhtml:p ism:ownerProducer="USA" ism:classification="U">Information about the addressee.</xhtml:p>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:complexType>
        <xsd:choice>
          <xsd:element ref="irm:person"/>
          <xsd:element ref="irm:organization"/>
        </xsd:choice>
        <xsd:attributeGroup ref="irm:SecurityAttributesGroup"/>
      </xsd:complexType>
    </xsd:element>
    <xsd:element ref="irm:description" minOccurs="0"/>
    <xsd:element name="taskID">
      <xsd:annotation>

```

```

        <xsd:documentation>&#x2028;
        <html:p ism:ownerProducer="USA" ism:classification="U">A tracking identification number associated with
the tasking that resulted in development of this resource. The format of
element "TaskID" content is agency-specific, and is not prescribed by
this documentation.</html:p>
    </xsd:documentation>
</xsd:annotation>
<xsd:complexType>
    <xsd:simpleContent>
        <xsd:extension base="irm:simpleTokenType">
            <xsd:attribute name="taskingSystem" type="irm:simpleTokenType" use="optional">
                <xsd:documentation>
                    <html:p ism:ownerProducer="USA" ism:classification="U">
                        The tasking system that provided the task id.
                    </html:p>
                </xsd:documentation>
            </xsd:attribute>
            <xsd:attributeGroup ref="irm:SimpleLinkAttributesGroup"/>
        </xsd:extension>
    </xsd:simpleContent>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
<xsd:attributeGroup ref="irm:SecurityAttributesGroup"/>
</xsd:complexType>

<xsd:complexType name="ServiceType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
        <html:p ism:ownerProducer="USA" ism:classification="U"> The
type used to model the irm:Service element. </html:p>
    </xsd:documentation>
</xsd:annotation>
    <xsd:complexContent>
        <xsd:extension base="irm:AffiliatedProducerType"/>
    </xsd:complexContent>
</xsd:complexType>

<xsd:complexType name="SubjectType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
        <html:p ism:ownerProducer="USA" ism:classification="U"> The
type used to model the subjectCoverage element. </html:p>
    </xsd:documentation>
</xsd:annotation>
    <xsd:choice maxOccurs="unbounded">
        <xsd:element ref="irm:category"/>
        <xsd:element ref="irm:keyword"/>
        <xsd:element ref="irm:nonStateActor"/>
    </xsd:choice>
    <xsd:attributeGroup ref="irm:SecurityAttributesOptionGroup"/>
</xsd:complexType>

```

```

<xsd:complexType name="SubtitleType">
  <xsd:annotation>
    <xsd:documentation>&#x2028;
      <xhtml:p ism:ownerProducer="USA" ism:classification="U">
Common type for the subtitle element. </xhtml:p>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="irm:simpleTokenType">
        <xsd:attributeGroup ref="irm:SecurityAttributesGroup"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>

<xsd:complexType name="TimePeriodType">
  <xsd:annotation>
    <xsd:documentation>&#x2028;
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Type
used to model the TimePeriod sub-element of the irm:temporalCoverage element.
    </xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:sequence>
    <xsd:element name="name"
      type="irm:simpleTokenType"
      default="Unknown"
      minOccurs="0">
      <xsd:annotation>
        <xsd:documentation>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Definition">ded:Definition: An element under
temporalCoverage that provides a name for an interval of time</xhtml:p>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
          <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment">ded:Comment: The default value for name is
"unknown." There can be at most one name element for each
temporalCoverage element, but when multiple temporalCoverage elements
are present each can have a separate name.</xhtml:p>
          </xsd:documentation>
        </xsd:annotation>
      </xsd:element>
    <xsd:choice>
      <xsd:element name="start" type="irm:ExtendedCombinedDateType" default="Unknown">
        <xsd:annotation>
          <xsd:documentation>
            <xhtml:p ism:classification="U"
              ism:ownerProducer="USA"
              data-ded="ded:Definition">ded:Definition: An element under
temporalCoverage that provides the start date of a period of

```

```

time.</xhtml:p>
  <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Obligation">ded:Obligation: (Conditional) One of start
or approximableStart is mandatory if temporalCoverage is
present.</xhtml:p>
  <xhtml:p ism:classification="U"
            ism:ownerProducer="USA"
            data-ded="ded:Comment">ded:Comment: The default value for start is
"unknown." There can be at most one start element for each
temporalCoverage element, but when multiple temporalCoverage
elements are present each must have a separate start. </xhtml:p>
  </xsd:documentation>
</xsd:annotation>
</xsd:element>
<xsd:element name="approximableStart" type="irm:ApproximableDateType">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Definition">ded:Definition: An element under
temporalCoverage that provides the approximable start date of a
period of time.</xhtml:p>
      <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Obligation">ded:Obligation: (Conditional) One of start
or approximableStart is mandatory if temporalCoverage is
present.</xhtml:p>
      <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Comment">ded:Comment: This element provides three ways
to describe an approximable date: a free-form text description, a
searchableDate element with start/end combination, and an
approximableDate which combines a descriptive vocabulary with a
date.</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
</xsd:element>
</xsd:choice>
<xsd:choice>
  <xsd:element name="end" type="irm:ExtendedCombinedDateType" default="Unknown">
    <xsd:annotation>
      <xsd:documentation>
        <xhtml:p ism:classification="U"
                  ism:ownerProducer="USA"
                  data-ded="ded:Definition">ded:Definition: An element under
temporalCoverage that provides the end date of a period of
time.</xhtml:p>
        <xhtml:p ism:classification="U"
                  ism:ownerProducer="USA"
                  data-ded="ded:Obligation">ded:Obligation: (Conditional) One of end
or approximableEnd is mandatory if temporalCoverage is
present.</xhtml:p>
        <xhtml:p ism:classification="U"

```

```

        ism:ownerProducer="USA"
        data-ded="ded:Comment">ded:Comment: The default value for end is
        "unknown." There can be at most one end element for each
        temporalCoverage element, but when multiple temporalCoverage
        elements are present each must have a separate end.</xhtml:p>
    </xsd:documentation>
</xsd:annotation>
</xsd:element>
<xsd:element name="approximableEnd" type="irm:ApproximableDateType">
    <xsd:annotation>
        <xsd:documentation>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Definition">ded:Definition: An element under
                temporalCoverage that provides the approximable end date of a period
                of time.</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Obligation">ded:Obligation: (Conditional) One of end
                or approximableEnd is mandatory if temporalCoverage is
                present.</xhtml:p>
            <xhtml:p ism:classification="U"
                ism:ownerProducer="USA"
                data-ded="ded:Comment">ded:Comment: This element provides three ways
                to describe an approximable date: a free-form text description, a
                searchableDate element with start/end combination, and an
                approximableDate which combines a descriptive vocabulary with a
                date.</xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
</xsd:element>
</xsd:choice>
</xsd:sequence>
<xsd:attributeGroup ref="irm:SecurityAttributesOptionGroup"/>
</xsd:complexType>

<xsd:complexType name="TitleType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
        <xhtml:p ism:ownerProducer="USA" ism:classification="U">
        Common type for the title element. </xhtml:p>
    </xsd:documentation>
</xsd:annotation>
<xsd:simpleContent>
    <xsd:extension base="irm:simpleTokenType">
        <xsd:attributeGroup ref="irm:SecurityAttributesGroup"/>
    </xsd:extension>
</xsd:simpleContent>
</xsd:complexType>

<xsd:complexType name="UnknownType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
        <xhtml:p ism:ownerProducer="USA" ism:classification="U"> The

```



```

        type used to model the irm:Unknown element. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:complexContent>
        <xsd:extension base="irm:AffiliatedProducerType"/>
    </xsd:complexContent>
</xsd:complexType>

<!-- End Complex Type Definitions -->

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

<!--      Simple Type Definitions      -->

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

<xsd:simpleType name="ListOfRegexTokensType">
    <xsd:annotation>
        <xsd:documentation>
            <xhtml:p ism:ownerProducer="USA" ism:classification="U">&gt;A list of regex tokens.</xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:restriction>
        <xsd:simpleType>
            <xsd:list itemType="irm:RegexTokenType"/>
        </xsd:simpleType>
        <xsd:maxLength value="1000"/>
    </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="RegexTokenType">
    <xsd:annotation>
        <xsd:documentation>
            <xhtml:p ism:ownerProducer="USA" ism:classification="U">&gt;A regex token type.</xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:restriction base="xsd:token">
        <xsd:pattern value="[A-Z]{3}(_[A-Z][A-Z0-9\-\-]+)"/>
    </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="CombinedDateType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> The
type used to support the range of date representations. Recommended practice is
that date be specified in one of the following formats: YYYY YYYY-MM YYYY-MM-DD
YYYY-MM-DDThh:mmTZD YYYY-MM-DDThh:mm.ssTZD YYYY-MM-DDThh:mm:ss.sTZD Where:YYYY
0000 through current year MM 01 through 12 (month) DD 01 through 31 (day) hh 00
through 24 (hour) mm 00 through 59 (minute) ss 00 through 60 (second) .s .0
through 999 (fractional second) TZD = time zone designator (Z or +hh:mm or
-hh:mm) This profile suggests two ways of handling time zone offsets: 1. Times
```

are expressed in UTC (Coordinated Universal Time), with a special UTC designator ("Z"). 2. Times are expressed in local time, together with a time zone offset in hours and minutes. A time zone offset of "+hh:mm" indicates that the date/time uses a local time zone which is "hh" hours and "mm" minutes ahead of UTC. A time zone offset of "-hh:mm" indicates that the date/time uses a local time zone which is "hh" hours and "mm" minutes behind UTC. </xhtml:p>

```

    </xsd:documentation>
  </xsd:annotation>
  <xsd:union memberTypes="xsd:dateTime irm:DateHourMinType xsd:date xsd:gYearMonth xsd:gYear"/>
</xsd:simpleType>

<!-- Types used to model the source element. -->

<xsd:simpleType name="DateApproximationEnumerationType">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:ownerProducer="USA" ism:classification="U">
A date approximation enumeration token type.</xhtml:p>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:restriction base="xsd:string">
      <xsd:enumeration value="1st qtr"/>
      <xsd:enumeration value="2nd qtr"/>
      <xsd:enumeration value="3rd qtr"/>
      <xsd:enumeration value="4th qtr"/>
      <xsd:enumeration value="circa"/>
      <xsd:enumeration value="early"/>
      <xsd:enumeration value="mid"/>
      <xsd:enumeration value="late"/>
    </xsd:restriction>
  </xsd:simpleType>

  <xsd:simpleType name="DateHourMinType">
    <xsd:annotation>
      <xsd:documentation>
        <xhtml:p ism:ownerProducer="USA" ism:classification="U">
A string representing date, hour minutes.</xhtml:p>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:restriction base="xsd:string">
        <xsd:pattern value="[0-9]{4}-[0-9]{2}-[0-9]{2}T[0-9]{2}:[0-9]{2}(Z|[\-\\+][0-9]{2}:[0-9]{2})?" />
      </xsd:restriction>
    </xsd:simpleType>

    <xsd:simpleType name="DateValueExtensionType">
      <xsd:annotation>
        <xsd:documentation>&#x2028;
          <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Type
used to modify the type modeling date to allow "Not Applicable" and "Unknown".
        </xhtml:p>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:restriction base="xsd:string">
        <xsd:enumeration value="Not Applicable"/>

```

```

        <xsd:enumeration value="Unknown"/>
    </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="ExtendedCombinedDateType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Type
used to model the irm:dates element. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:union memberTypes="irm:CombinedDateType irm:DateValueExtensionType"/>
</xsd:simpleType>

<xsd:simpleType name="MediumType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Type
used to model the medium attribute of the irm:medium element. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:restriction base="irm:simpleTokenType"/>
</xsd:simpleType>

<xsd:simpleType name="MimeTypeType">
    <xsd:annotation>
        <xsd:documentation>&#x2028;
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Type
used to model the mimeType element. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:restriction base="irm:simpleTokenType"/>
</xsd:simpleType>

<xsd:simpleType name="simpleTokenType">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">type created to ensure an element / attribute is
comprised of more than whitespace, tab, newline, etc.</xsd:documentation>
    </xsd:annotation>
    <xsd:restriction base="xsd:token">
        <xsd:minLength value="1"/>
    </xsd:restriction>
</xsd:simpleType>

<!-- End Simple Type Definitions -->
```

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

```
<!--      Group Definitions      -->
```

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

```
<xsd:group name="postalAddressGroup">
```

```

    <xsd:annotation>
      <xsd:documentation>&#x2028;
      <xhtml:p ism:ownerProducer="USA" ism:classification="U">Group
of entities used in the irm:postalAddress element. </xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
</xsd:sequence>
  <xsd:element ref="tspi:AbstractPhysicalAddress"/>
</xsd:sequence>
</xsd:group>

<!-- End Group Type Definitions -->

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

<!--      Attribute Group Definitions      -->

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

<!--      Models a standalone postal address. -->

<xsd:attributeGroup name="OptionalResourceLinkAttributesGroup">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:ownerProducer="USA" ism:classification="U">
An optional reousrce link attributes group.</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
</xsd:attributeGroup>

<xsd:attributeGroup name="POCAttributesGroup">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:ownerProducer="USA" ism:classification="U">
The point-of-contact (POC) attributes group.</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:attributeGroup ref="ism:POCAttributeGroup">
    <xsd:annotation>
      <xsd:documentation>&#x2028;
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Definition">ded:Definition: An attribute of creator,
publisher, contributor, pointOfContact that indicates that the element
specifies a point-of-contact (POC) and the methods with which to contact
that individual.</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Obligation">ded:Obligation: (Optional)</xhtml:p>
      <xhtml:p ism:classification="U"
ism:ownerProducer="USA"
data-ded="ded:Comment">ded:Comment: As certain POCs are required for different reasons (ICD-710
```

```

        compliance, DoD Distribution statements, etc), the values for this attribute
        specify the reason(s) why the POC is provided. A recommended set of values,
        required for use in the IC, is found in the IC ISM Controlled Value
        Enumeration: CVEnumISMPocType.xml.</xhtml:p>
    </xsd:documentation>
</xsd:annotation>
</xsd:attributeGroup>
<xsd:attributeGroup ref="irm:SecurityAttributesOptionGroup"/>
</xsd:attributeGroup>

<xsd:attributeGroup name="SecurityAttributesGroup">
    <xsd:annotation>
        <xsd:documentation>
            <xhtml:p ism:ownerProducer="USA" ism:classification="U">
                An security attributes group.</xhtml:p>
            </xsd:documentation>
        </xsd:annotation>
        <xsd:attributeGroup ref="ism:SecurityAttributesGroup"/>
    </xsd:attributeGroup>

    <!-- Currently (to v9) compatible with all versions of ISM: -->

<xsd:attributeGroup name="SecurityAttributesOptionGroup">
    <xsd:annotation>
        <xsd:documentation>
            <xhtml:p ism:ownerProducer="USA" ism:classification="U">
                An security attributes group.</xhtml:p>
            </xsd:documentation>
        </xsd:annotation>
        <xsd:attributeGroup ref="ism:SecurityAttributesOptionGroup"/>
    </xsd:attributeGroup>

    <!-- IC-Common wrapping -->

<xsd:attributeGroup name="SimpleLinkAttributesGroup">
    <xsd:annotation>
        <xsd:documentation>
            <xhtml:p ism:ownerProducer="USA" ism:classification="U">
                A simple link attributes group.</xhtml:p>
            </xsd:documentation>
        </xsd:annotation>
        <xsd:attributeGroup ref="virt:SimpleLinkAttributesGroup"/>
    </xsd:attributeGroup>

    <!-- End Attribute Group Type Definitions -->

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

<!--End All case-insensitive alphabetically-->

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

```
<xsd:annotation>
  <xsd:documentation>
    <xhtml:h2 ism:ownerProducer="USA" ism:classification="U">Formal Change List</xhtml:h2>
    <xhtml:table ism:ownerProducer="USA" ism:classification="U">
      <xhtml:caption>Change History</xhtml:caption>
      <xhtml:thead>
        <xhtml:tr>
          <th>Version</th>
          <th>Date</th>
          <th>By</th>
          <th>Description</th>
        </xhtml:tr>
      </xhtml:thead>
      <xhtml:tbody>
        <xhtml:tr>
          <xhtml:td>2016-SEP</xhtml:td>
          <xhtml:td>2016-02-17</xhtml:td>
          <xhtml:td>ODNI/OCIO/ICEA</xhtml:td>
          <xhtml:td>The schema change logs will no longer be maintained as of the
2016-SEP release. The existing change logs will only serve as legacy
information. For changes to schema as of and after 2016-SEP, reference
the change history in the DES. </xhtml:td>
        </xhtml:tr>
        <xhtml:tr>
          <xhtml:td>2015-NOV</xhtml:td>
          <xhtml:td>2015-10-20</xhtml:td>
          <xhtml:td>ODNI/IC CIO/ME/EI&A</xhtml:td>
          <xhtml:td>
            <xhtml:ul>
              <xhtml:li ism:ownerProducer="USA" ism:classification="U"> Added
pm:CESVersion as optional attribute to
irm:IRMRootNodeAttributeGroup since IRM has dependency on PM for
production metrics subject and coverage.</xhtml:li>
            </xhtml:ul>
          </xhtml:td>
        </xhtml:tr>
        <xhtml:tr>
          <xhtml:td>2014-DEC</xhtml:td>
          <xhtml:td>2014-12-04</xhtml:td>
          <xhtml:td>ODNI/IC CIO/ME/EI&A</xhtml:td>
          <xhtml:td>
            <xhtml:ul>
              <xhtml:li ism:ownerProducer="USA" ism:classification="U"> Changed
DESVersion to allow for extension using a '-' followed by string
to denote the extension.</xhtml:li>
            </xhtml:ul>
          </xhtml:td>
        </xhtml:tr>
        <xhtml:tr>
          <xhtml:td>11</xhtml:td>
          <xhtml:td>2013-07-17</xhtml:td>
          <xhtml:td>Clay, ODNI/OCIO/ICEA</xhtml:td>
          <xhtml:td>
            <xhtml:ul>

```



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        <xhtml:li ism:ownerProducer="USA" ism:classification="U">Importing
the US Agency schema and added the US Agency CES Version
attribute to the IRM assertion. This spec is needed as it
contains the allowable values for US Agencies referenced in the
payload.</xhtml:li>
    </xhtml:ul>
</xhtml:td>
</xhtml:tr>
<xhtml:tr>
    <xhtml:td>10</xhtml:td>
    <xhtml:td>2013-02-12</xhtml:td>
    <xhtml:td>Clay, ODNI/OCIO/ICEA</xhtml:td>
    <xhtml:td>
        <xhtml:ul>
            <xhtml:li ism:ownerProducer="USA" ism:classification="U">Importing
the IC-ID schema and added the IC-ID DES Version attribute to
the IRM assertion. This spec is needed as it contains a
schematron rule for ensuring the use of a GUIDE in IRM meets the
expected format.</xhtml:li>
        </xhtml:ul>
    </xhtml:td>
</xhtml:tr>
<xhtml:tr>
    <xhtml:td>9</xhtml:td>
    <xhtml:td>2012-10-31</xhtml:td>
    <xhtml:td>Hodges, ODNI/OCIO/ICEA</xhtml:td>
    <xhtml:td>
        <xhtml:ul>
            <xhtml:li ism:ownerProducer="USA" ism:classification="U">Removed IRM
from the body of IRM as it is now a peer assertion in a
TrustedDataObject.</xhtml:li>
            <xhtml:li ism:ownerProducer="USA" ism:classification="U">Updated IRM
to be an assertion in TDO and created conditions for a TDO to
comply with IRM.</xhtml:li>
        </xhtml:ul>
    </xhtml:td>
</xhtml:tr>
<xhtml:tr>
    <xhtml:td>8</xhtml:td>
    <xhtml:td>2012-03-19</xhtml:td>
    <xhtml:td>Sun, ODNI/OCIO/ICEA</xhtml:td>
    <xhtml:td>
        <xhtml:ul>
            <xhtml:li ism:ownerProducer="USA" ism:classification="U">Changed
DESVersion attribute from xsd:int to ism:ShortStringType.
        </xhtml:li>
        </xhtml:ul>
    </xhtml:td>
</xhtml:tr>
<xhtml:tr>
    <xhtml:td>6</xhtml:td>
    <xhtml:td>2011-09-08</xhtml:td>
    <xhtml:td>Colbert, Gilsenan, Hodges, ODNI/OCIO/ICEA</xhtml:td>
    <xhtml:td>
```

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        <xhtml:ul>
          <xhtml:li ism:ownerProducer="USA" ism:classification="U">Removed all
            IRM elements except the root and upgraded the schema to use IRM
            v4.0 harmonizing the IRM and IRM specifications</xhtml:li>
        </xhtml:ul>
      </xhtml:td>
    </xhtml:tr>
  <xhtml:tr>
    <xhtml:td>5</xhtml:td>
    <xhtml:td>2011-07-21</xhtml:td>
    <xhtml:td>Sun, ODNI/OCIO/ICEA</xhtml:td>
    <xhtml:td>
      <xhtml:ul>
        <xhtml:li ism:ownerProducer="USA" ism:classification="U">Removed
          inline definitions of enumerations for IntelDiscipline,
          IntelSubdiscipline, and IntelSubdisciplineTechnique vocabulary
          and updated element declarations to refer to the appropriate
          CVEs</xhtml:li>
      </xhtml:ul>
    </xhtml:td>
  </xhtml:tr>
  <xhtml:tr>
    <xhtml:td>5</xhtml:td>
    <xhtml:td>2011-07-07</xhtml:td>
    <xhtml:td>Colbert, ODNI/OCIO/ICEA</xhtml:td>
    <xhtml:td>
      <xhtml:ul>
        <xhtml:li ism:ownerProducer="USA" ism:classification="U">Added
          version information to header</xhtml:li>
      </xhtml:ul>
    </xhtml:td>
  </xhtml:tr>
  <xhtml:tr>
    <xhtml:td>5</xhtml:td>
    <xhtml:td>2011-05-11</xhtml:td>
    <xhtml:td>Colbert, ODNI/OCIO/ICEA</xhtml:td>
    <xhtml:td>
      <xhtml:ul>
        <xhtml:li ism:ownerProducer="USA" ism:classification="U">Created new
          POCAAttributesGroup to allow specification of an ORCON
          POC</xhtml:li>
        <xhtml:li ism:ownerProducer="USA" ism:classification="U"> Extended
          irm:publisher, irm:creator, irm:pointOfContact and
          irm:contributor to use the POCAAttributesGroup by creating new
          IRM equivalent elements</xhtml:li>
        <xhtml:li ism:ownerProducer="USA" ism:classification="U">Added
          ProcessingInfoList and child element ProcessingInfo to track
          when documents are transformed</xhtml:li>
        <xhtml:li ism:ownerProducer="USA" ism:classification="U">Added
          @dateReceieved attribute under irm:Dates to track when a
          document was received by a system</xhtml:li>
      </xhtml:ul>
    </xhtml:td>
  </xhtml:tr>
</xhtml:tr>

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<xhtml:tr>
  <xhtml:td>5</xhtml:td>
  <xhtml:td>2011-04-22</xhtml:td>
  <xhtml:td>Colbert, ODNI/OCIO/ICEA</xhtml:td>
  <xhtml:td>
    <xhtml:ul>
      <xhtml:li ism:ownerProducer="USA" ism:classification="U">Explicitly
        declared minOccurs and maxOccurs where appropriate</xhtml:li>
    </xhtml:ul>
  </xhtml:td>
</xhtml:tr>
<xhtml:tr>
  <xhtml:td>5</xhtml:td>
  <xhtml:td>2011-04-15</xhtml:td>
  <xhtml:td>Colbert, ODNI/OCIO/ICEA</xhtml:td>
  <xhtml:td>
    <xhtml:ul>
      <xhtml:li ism:ownerProducer="USA" ism:classification="U">Removed
        irm:NoticeList and replaced with new ism:NoticeList. Old IRM
        sub-elements should map one-to-one with new ISM elements, but
        @irm:nonISMNoticeType was changed to
        @ism:unregisteredNoticeType</xhtml:li>
    </xhtml:ul>
  </xhtml:td>
</xhtml:tr>
<xhtml:tr>
  <xhtml:td>4</xhtml:td>
  <xhtml:td>2011-02-01</xhtml:td>
  <xhtml:td>
    <xhtml:ul>
      <xhtml:li ism:ownerProducer="USA" ism:classification="U">Gilsenan,
        Booz Allen Hamilton</xhtml:li>
      <xhtml:li ism:ownerProducer="USA" ism:classification="U">Colbert,
        Booz Allen Hamilton</xhtml:li>
      <xhtml:li ism:ownerProducer="USA" ism:classification="U">Hodges,
        Booz Allen Hamilton</xhtml:li>
    </xhtml:ul>
  </xhtml:td>
  <xhtml:td>
    <xhtml:ul>
      <xhtml:li ism:ownerProducer="USA" ism:classification="U">Added
        CountryCodeCoverageList and child elements
        CountryCode</xhtml:li>
      <xhtml:li ism:ownerProducer="USA" ism:classification="U">Added
        SubCountryCodeCoverageList and child elements
        SubCountryCode</xhtml:li>
      <xhtml:li ism:ownerProducer="USA" ism:classification="U">Added
        OrderAttributeGroup to specify a user-defined ordering of
        NonStateActor, CountryCode and SubCountryCode
        elements</xhtml:li>
    </xhtml:ul>
  </xhtml:td>
</xhtml:tr>
<xhtml:tr>
```

```
<xhtml:td>3</xhtml:td>
<xhtml:td>2010-10-27</xhtml:td>
<xhtml:td/>
<xhtml:td>
  <xhtml:ul>
    <xhtml:li ism:ownerProducer="USA" ism:classification="U">Update to
use ISM V5</xhtml:li>
    <xhtml:li ism:ownerProducer="USA" ism:classification="U">Add support
for coverage of NonState Actors</xhtml:li>
    <xhtml:li ism:ownerProducer="USA" ism:classification="U">Use CVEs
for ProductionMetrics</xhtml:li>
  </xhtml:ul>
</xhtml:td>
</xhtml:tr>
<xhtml:tr>
  <xhtml:td/>
  <xhtml:td>2010-04-14</xhtml:td>
  <xhtml:td/>
  <xhtml:td>
    <xhtml:ul>
      <xhtml:li ism:ownerProducer="USA" ism:classification="U">Initial
Release of this module extending IRM for IC needs</xhtml:li>
    </xhtml:ul>
  </xhtml:td>
</xhtml:tr>
</xhtml:tbody>
</xhtml:table>
</xsd:documentation>
</xsd:annotation>
</xsd:schema>
```

2.2 - SchemaGuideSchema.xsd

```
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
            xmlns:xhtml="http://www.w3.org/1999/xhtml-StopBrowserRendering"
            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 Information Resource
Metadata (IRM.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"> W3C XML Schema used to
facilitate generation of the SchemaGuide for the XML Data Encoding Specification for
Information Resource Metadata (IRM.XML). </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/IRM/DesIrmXml.pdf">XML Data Encoding
Specification for Information Resource Metadata</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 IRM.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">A IRM.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="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 element for IRM is
<xhtml:a href="IC-IRM_xsd_Element_irm_ICResourceMetadataPackage.html">irm:ICResourceMetadataPackage</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 -->

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

<xsd:import namespace="urn:us:gov:ic:irm" schemaLocation="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"/>
</xsd:schema>
```