



Guide to Schemas for CEM

CEM Schema Guide

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Chapter 1 - Introduction

1.1 - Purpose

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

Chapter 2 - Schema Files

2.1 - CEM-XML.xsd

```
<xsd:schema xmlns:cem="urn:us:gov:ic:cem"
            xmlns:virt="urn:us:gov:ic:virt"
            xmlns:gml="http://www.opengis.net/gml/3.2"
            xmlns:xsd="http://www.w3.org/2001/XMLSchema"
            xmlns:cemcitcat="urn:us:gov:ic:cenum:cemxml:citycategory"
            xmlns:cemident="urn:us:gov:ic:cenum:cemxml:identifiertype"
            xmlns:cemcomdat="urn:us:gov:ic:cenum:cemxml:commdatatype"
            xmlns:xhtml="http://www.w3.org/1999/xhtml-StopBrowserRendering"
            targetNamespace="urn:us:gov:ic:cem"
            ism:compliesWith="USGov USIC"
            ism:resourceElement="true"
            ism:createDate="2019-09-18"
            ism:DESVersion="202111"
            ism:ISMATCESVersion="202205"
            ism:classification="U"
            ism:ownerProducer="USA"
            version="201804"
            elementFormDefault="qualified"
            attributeFormDefault="qualified">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:h1 ism:ownerProducer="USA" ism:classification="U">Intelligence Community Technical
Specification XML Data Encoding Specification for Contextual Entity Markup (CEM.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:
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 for the XML Data
Encoding Specification for Contextual Entity Markup (CEM.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/CEM/DesCemXml.pdf">XML Data Encoding Specification for
Contextual Entity Markup</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 CEM.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">No implementation notes at this time.</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>

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

<!--Start Import Statements-->

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

<xsd:import namespace="http://www.opengis.net/gml/3.2"
    schemaLocation="../../../ogc/gml/3.2.1/gml.xsd"/>
<xsd:import namespace="http://www.w3.org/1999/xlink"
    schemaLocation="../../../w3/1999/xlink/xlink.xsd"/>
<xsd:import namespace="http://www.w3.org/XML/1998/namespace"
    schemaLocation="../../../w3/2001/xml.xsd"/>
<xsd:import namespace="http://www.w3.org/1999/xhtml"
    schemaLocation="../../../w3/1999/xhtml/xhtml1-strict.xsd"/>
<xsd:import namespace="urn:us:gov:ic:cvenum:cemxml:citycategory"
    schemaLocation="../../../CVEGenerated/CVEnumCemCityCategory.xsd"/>
<xsd:import namespace="urn:us:gov:ic:cvenum:cemxml:identifiertype"
    schemaLocation="../../../CVEGenerated/CVEnumCemIdentifierType.xsd"/>
<xsd:import namespace="urn:us:gov:ic:cvenum:cemxml:commdatatype"
    schemaLocation="../../../CVEGenerated/CVEnumCemCommDataType.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"/>

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

<!--End Import Statements-->

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

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

<!--Start All case-insensitive alphabetically-->
```

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

<xsd:attribute name="DESVersion" type="cem:DESVersionType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      <xhtml:p ism:ownerProducer="USA" ism:classification="U">The version number of the specification.
      This attribute is intended for processing systems to determine the appropriate versions of
      Schema, Schematron, and CVE values for validation and interpretation of an instance document.
    </xhtml:p>
    <xhtml:p ism:ownerProducer="USA" ism:classification="U">If there are multiple of this attribute
    specified in an instance document, the first one in document order is the one that will
    apply to the entire document. Document order is
    defined in <xhtml:a href="https://www.w3.org/TR/xpath-datamodel/#document-order">https://www.w3.org/TR/xpath-datamodel/#document-order</xhtml:a>
    </xhtml:p>
  </xsd:documentation>
</xsd:annotation>
</xsd:attribute>

<xsd:simpleType name="DESVersionType">
  <xsd:restriction base="xsd:string">
    <xsd:pattern value="[0-9]{6}(\.[0-9]{6})?(\-{1,23})?" />
  </xsd:restriction>
</xsd:simpleType>

<xsd:group name="DescriptiveElementsGroup">
  <xsd:choice>
    <xsd:element ref="cem:Account" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:BENumber" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:CommData" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:CityName" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:Commodity" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:Concept" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:CountryName" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:Date" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:DateTime" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:Drug" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:EntityUntyped" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:Equipment" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:Event" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:Facility" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:GeoFeature" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:GeoRef" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:Identifier" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:InfoBearer" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:LocationOfInterest" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:MilitaryUnit" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:Money" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:Nomenclature" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:Organization" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:Person" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:QuantityReference" minOccurs="0" maxOccurs="1"/>
    <xsd:element ref="cem:SystemClass" minOccurs="0" maxOccurs="1"/>
  </xsd:choice>
</xsd:group>
```

```
<xsd:element ref="cem:Term" minOccurs="0" maxOccurs="1"/>
<xsd:element ref="cem:Time" minOccurs="0" maxOccurs="1"/>
<xsd:element ref="cem:TransportationNetwork" minOccurs="0" maxOccurs="1"/>
<xsd:element ref="cem:Vehicle" minOccurs="0" maxOccurs="1"/>
<xsd:element ref="cem:Weapon" minOccurs="0" maxOccurs="1"/>
</xsd:choice>
</xsd:group>

<xsd:complexType name="DescriptiveElementType" mixed="true">
  <xsd:choice>
    <xsd:group ref="cem:DescriptiveElementsGroup"/>
  </xsd:choice>
  <xsd:attributeGroup ref="cem:CommonAttributesGroup"/>
  <xsd:attributeGroup ref="ism:SecurityAttributesOptionGroup"/>
</xsd:complexType>

<xsd:attributeGroup name="CommonAttributesGroup">
  <xsd:attribute name="id" type="xsd:ID" use="optional">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">
        <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A unique XML identifier used to
          assign an XML unique identifier to an element, such as a paragraph, note or table.
        </xhtml:p>
      </xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>
  <xsd:attribute name="IDReference" type="xsd:IDREFS" use="optional">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">
        <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A cross-reference to a unique
          identifier used to point from one element to one or more other elements. The value of
          the attribute must be one or more XML unique identifiers that are the value(s) of id
          attribute(s) elsewhere in the document. </xhtml:p>
        </xsd:documentation>
      </xsd:annotation>
    </xsd:attribute>
  <xsd:attribute name="qualifier" type="xsd:string" use="optional">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">
        <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A user-defined property within an
          element for general purpose processing used with block objects to provide supplemental
          information over and above that conveyed by the element name. This attribute is
          analogous to HTML's "class" attribute. </xhtml:p>
        </xsd:documentation>
      </xsd:annotation>
    </xsd:attribute>
  <xsd:attribute name="styleType" type="xsd:string" use="optional">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">
        <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A user-defined property within an
          element for representing the formatting/style to be applied. </xhtml:p>
        </xsd:documentation>
      </xsd:annotation>
    </xsd:attribute>
  </xsd:attribute>
</xsd:attribute>
```



```

</xsd:attributeGroup>

<xsd:element name="Account">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Tags references (numbers, etc) to
        commercial accounts (bank, utilities, ISP, etc) held by individuals and organizations.
      </xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:complexContent>
      <xsd:extension base="cem:DescriptiveElementType">
        <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
</xsd:element>

<xsd:element name="BENumber">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Basic Encyclopedia number that may
        be used to tag BE numbers that occur in running text. </xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:simpleContent>
      <xsd:extension base="cem:BENumberType">
        <xsd:attributeGroup ref="cem:CommonAttributesGroup"/>
        <xsd:attributeGroup ref="ism:SecurityAttributesOptionGroup"/>
        <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>
</xsd:element>

<xsd:simpleType name="BENumberType">
  <xsd:restriction base="xsd:string">
    <xsd:pattern value="[0-9]{4}[E\-[0-9]{4,5}"/>
    <xsd:pattern value="[0-9]{4}[A-Z]{2}[0-9]{3,4}"/>
    <xsd:pattern value="[0-9]{4}[A-Z]{3}[0-9]{3}"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:element name="CommData">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A specific reference to an element
        of telecommunications 'metadata' when it occurs as a part of the reported intelligence.
        Examples would include, but are not limited to, a phone number, an e-mail address, a
        website address, a broadcast radio frequency, etc. </xhtml:p>
    </xsd:documentation>
  </xsd:annotation>

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<xsd:complexType>
  <xsd:complexContent>
    <xsd:extension base="cem:DescriptiveElementType">
      <xsd:attribute name="commDataType"
        type="cemcomdat:CVEEnumCemCommDataType"
        use="optional">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A type designator for
            communications data. </xhtml:p>
          </xsd:documentation>
        </xsd:annotation>
      </xsd:attribute>
      <xsd:attribute name="commDataNormalized" type="xsd:string" use="optional">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A representation of the
            essential content of the element in a known format to be used for search, entity
            extraction an other automated processes. </xhtml:p>
          </xsd:documentation>
        </xsd:annotation>
      </xsd:attribute>
      <xsd:attribute name="serviceProvider" type="xsd:string" use="optional">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> The entity providing the
            communications services about which data are being captured. </xhtml:p>
          </xsd:documentation>
        </xsd:annotation>
      </xsd:attribute>
      <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
</xsd:element>

<xsd:element name="CityName">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> The name of a population center
      when used as a geographic location. </xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:complexContent>
      <xsd:extension base="cem:DescriptiveElementType">
        <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
        <xsd:attribute name="category" type="cemcitcat:CVEEnumCemCityCategory">
          <xsd:annotation>
            <xsd:documentation xml:lang="en">
              <xhtml:p ism:ownerProducer="USA" ism:classification="U">The category type of the city.</xhtml:p>
            </xsd:documentation>
          </xsd:annotation>
        </xsd:attribute>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
</xsd:element>

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```
<xsd:attributeGroup ref="cem:CoordinatesAttributeGroup"/>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
</xsd:element>

<xsd:attributeGroup name="CoordinatesAttributeGroup">
  <xsd:attribute name="decimalDegreeCoordinates" type="cem:decimalDegreeCoordinatesType">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">
        <xhtml:p ism:ownerProducer="USA" ism:classification="U">Expresses location using latitude and longitude geographic coordinates as decimal fractions.</xhtml:p>
      </xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>
</xsd:attributeGroup>

<xsd:simpleType name="decimalDegreeCoordinatesType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A set of decimal degree coordinates
of the format '(+-)##.####,(+-)###.####', where the leading '+' is optional, and the
allowable decimal precision is one to four digits.</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:string">
    <xsd:pattern value="(\+?|\-)[0-9]{1,2}\.[0-9]{1,4},(\+?|\-)[0-9]{1,3}\.[0-9]{1,4}"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:element name="Commodity">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Tags references to relatively raw
materials such as elements, chemicals, ores, crops (corn, wheat, etc), basic products
(oil, sugar, etc). </xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:complexContent>
      <xsd:extension base="cem:DescriptiveElementType">
        <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
</xsd:element>

<xsd:element name="Concept">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Tags references to intangible
ideas, goals, etc (eg "regime change", "global warming", "nuclear fusion"). </xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
```

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        <xsd:complexContent>
          <xsd:extension base="cem:DescriptiveElementType">
            <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
          </xsd:extension>
        </xsd:complexContent>
      </xsd:complexType>
    </xsd:element>

    <xsd:element name="CountryName">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">
          <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Use this element to tag a name or
reference to a country that occurs in running text. </xhtml:p>
        </xsd:documentation>
      </xsd:annotation>
      <xsd:complexType>
        <xsd:complexContent>
          <xsd:extension base="cem:DescriptiveElementType">
            <xsd:attribute name="countryCode" type="xsd:NMTOKEN" use="optional">
              <xsd:annotation>
                <xsd:documentation xml:lang="en">
                  <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A 3-character abbreviation
of a country name, taken from GENC. PERMISSIBLE VALUES The permissible values for
this type are defined in the following Controlled Vocabulary Enumerations:
CVEnumPubsCountryISO3166Trigraph.xml </xhtml:p>
                </xsd:documentation>
              </xsd:annotation>
            </xsd:attribute>
            <xsd:attribute name="countryCodeVocabulary"
              type="cem:CountryCodeVocabularyType"
              use="optional">
              <xsd:annotation>
                <xsd:documentation xml:lang="en">
                  <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Which value enumeration set
the attribute countryCode should be validated against. </xhtml:p>
                </xsd:documentation>
              </xsd:annotation>
            </xsd:attribute>
            <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
            <xsd:attributeGroup ref="cem:CoordinatesAttributeGroup"/>
          </xsd:extension>
        </xsd:complexContent>
      </xsd:complexType>
    </xsd:element>

    <xsd:simpleType name="CountryCodeVocabularyType">
      <xsd:restriction base="xsd:NMTOKEN">
        <xsd:enumeration value="ISO-3"/>
      </xsd:restriction>
    </xsd:simpleType>

    <xsd:element name="Date">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">

```

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        <xhtml:p ism:ownerProducer="USA" ism:classification="U"> This element is a calendar date
that is used to designate a specific date called out in running text. This element may be
tied to a controlled vocabulary that constrains the applicable events to an
agency-specific life cycle. </xhtml:p>
    </xsd:documentation>
</xsd:annotation>
<xsd:complexType>
    <xsd:complexContent>
        <xsd:extension base="cem:DescriptiveElementType">
            <xsd:attribute name="normalizedDate" type="cem:ISO8601DateType" use="optional">
                <xsd:annotation>
                    <xsd:documentation xml:lang="en">
                        <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A calendar date represented
in accordance with the W3C Profile of ISO 8601:2000. The datatype is a union of
W3C datatypes "date", "gYearMonth" and "gYear". </xhtml:p>
                    </xsd:documentation>
                </xsd:annotation>
            </xsd:attribute>
            <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
        </xsd:extension>
    </xsd:complexContent>
</xsd:complexType>
</xsd:element>

<xsd:simpleType name="ISO8601DateType">
    <xsd:union memberTypes="xsd:date xsd:gYearMonth xsd:gYear"/>
</xsd:simpleType>

<xsd:element name="DateTime">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A combination of a date reference
and time reference when something happened or is expected to happen. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:complexType>
        <xsd:complexContent>
            <xsd:extension base="cem:DescriptiveElementType">
                <xsd:attribute name="normalizedDateTime"
                    type="cem:ISO8601DateTimeType"
                    use="optional">
                    <xsd:annotation>
                        <xsd:documentation xml:lang="en">
                            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A calendar date and time of
day represented in accordance with the W3C Profile of ISO 8601:2000. The datatype
is a union of W3C datatypes "date", "dateTime", "gYear", "gYearMonth", and an
PUBS.XML schema-defined simple type called "dateHourMinType" which restricts the
"string" datatype to a pattern allowing seconds to be optional. </xhtml:p>
                        </xsd:documentation>
                    </xsd:annotation>
                </xsd:attribute>
                <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
            </xsd:extension>
        </xsd:complexContent>
    </xsd:complexType>

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

  <xsd:simpleType name="ISO8601DateTimeType">
    <xsd:union memberTypes="xsd:dateTime cem:dateHourMinType xsd:date xsd:gYear xsd:gYearMonth"/>
  </xsd:simpleType>

  <xsd:simpleType name="dateHourMinType">
    <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:element name="Drug">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">
        <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A drug or chemical substance found
in the http://pubchem.ncbi.nlm.nih.gov/ databases. Structure provides the ability to
associate multiple pubChem SID or CID and multiple Pseudonyms with the item in question.
        </xhtml:p>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:complexType mixed="true">
      <xsd:sequence minOccurs="1" maxOccurs="1">
        <xsd:element ref="cem:PC-SID" minOccurs="0" maxOccurs="unbounded" />
        <xsd:element ref="cem:PC-CID" minOccurs="0" maxOccurs="unbounded" />
        <xsd:element ref="cem:Pseudonym" minOccurs="0" maxOccurs="unbounded" />
      </xsd:sequence>
      <xsd:attributeGroup ref="ism:SecurityAttributesOptionGroup" />
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="PC-SID">
    <xsd:annotation>
      <xsd:documentation>
        <xhtml:p ism:ownerProducer="USA" ism:classification="U">Wraps a name, synonym, or keyword that references a unique chemical substance from the
substance database of http://pubchem.ncbi.nlm.nih.gov/</xhtml:p>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:complexType>
      <xsd:attribute name="SID" type="xsd:integer" use="required">
        <xsd:annotation>
          <xsd:documentation>
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> The Substance ID from the
substance database of http://pubchem.ncbi.nlm.nih.gov/</xhtml:p>
          </xsd:documentation>
        </xsd:annotation>
      </xsd:attribute>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="PC-CID">
    <xsd:annotation>
      <xsd:documentation>
```

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        <xhtml:p ism:ownerProducer="USA" ism:classification="U">Wraps a name, synonym, or keyword that references a unique chemical structure from the
compound database of http://pubchem.ncbi.nlm.nih.gov/</xhtml:p>
    </xsd:documentation>
</xsd:annotation>
<xsd:complexType>
    <xsd:attribute name="CID" type="xsd:integer" use="required">
        <xsd:annotation>
            <xsd:documentation>
                <xhtml:p ism:ownerProducer="USA" ism:classification="U"> The Compound ID from the
                compound database of http://pubchem.ncbi.nlm.nih.gov/ </xhtml:p>
            </xsd:documentation>
        </xsd:annotation>
    </xsd:attribute>
</xsd:complexType>
</xsd:element>

<xsd:element name="Pseudonym">
    <xsd:annotation>
        <xsd:documentation>
            <xhtml:p ism:ownerProducer="USA" ism:classification="U">Wraps a substance or
            compound in order to provide a pseudonym value for the substance or compound
            in question.</xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:complexType>
        <xsd:attribute name="value" use="required">
            <xsd:annotation>
                <xsd:documentation>
                    <xhtml:p ism:ownerProducer="USA" ism:classification="U">A pseudonym for the substance or
                    compound in question.</xhtml:p>
                </xsd:documentation>
            </xsd:annotation>
            <xsd:simpleType>
                <xsd:restriction base="xsd:string">
                    <xsd:maxLength value="256"/>
                </xsd:restriction>
            </xsd:simpleType>
        </xsd:attribute>
        <xsd:attributeGroup ref="ism:SecurityAttributesOptionGroup"/>
    </xsd:complexType>
</xsd:element>

<xsd:element name="EntityUntyped">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Identifies an entity of interest of
            uncertain category. Use this element in running text to tag a prospective entity of
            interest that cannot be readily typed as a person, organization, facility, location, or
            other specific entity. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:complexType>
        <xsd:complexContent>
            <xsd:extension base="cem:DescriptiveElementType">

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        <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
    </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
</xsd:element>

<xsd:element name="Equipment">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Tags references to " the implements
used in an operation or activity", such as tools, comms gear, computers, etc. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:complexType>
        <xsd:complexContent>
            <xsd:extension base="cem:DescriptiveElementType">
                <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
            </xsd:extension>
        </xsd:complexContent>
    </xsd:complexType>
</xsd:element>

<xsd:element name="Event">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Event identifies a significant
occurrence or happening. This element is used to identify an activity of interest or
information pertaining to such an activity. Usually these will be nouns. Attributes
"gml:axisLabels" and "gml:uomLabels" are only specified due to the fact that they are
included in the "SRSReferenceGroup" attribute group in the GML schema. They should not be
used in PUBS.XML compliant XML markup. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:complexType>
        <xsd:complexContent>
            <xsd:extension base="cem:DescriptiveElementType">
                <xsd:attribute name="location" type="xsd:string" use="optional">
                    <xsd:annotation>
                        <xsd:documentation xml:lang="en">
                            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A geographical situation.
                        </xhtml:p>
                        </xsd:documentation>
                    </xsd:annotation>
                </xsd:attribute>
                <xsd:attribute name="dateTime" type="cem:dateTimeType" use="optional">
                    <xsd:annotation>
                        <xsd:documentation xml:lang="en">
                            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A series of calendar date
and time notations. </xhtml:p>
                        </xsd:documentation>
                    </xsd:annotation>
                </xsd:attribute>
                <xsd:attribute name="dateTimeRange" type="cem:dateTimePairsType" use="optional">
                    <xsd:annotation>

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        <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A series of an even number
            of calendar date and time notations, specifying the start and end points of a
            series of time spans. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attributeGroup ref="cem:GMLPosAttributesGroup"/>
<xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
</xsd:element>

<xsd:simpleType name="dateTimesType">
    <xsd:list itemType="cem:ISO8601DateTimeType"/>
</xsd:simpleType>

<xsd:simpleType name="dateTimePairsType">
    <xsd:restriction base="cem:dateTimesType">
        <xsd:pattern value="(((\s)+)?[^\s]+(\s)+[^\s]+)+"/>
    </xsd:restriction>
</xsd:simpleType>

<xsd:attributeGroup name="GMLPosAttributesGroup">
    <xsd:attribute name="posList" type="cem:DoubleListType" use="optional">
        <xsd:annotation>
            <xsd:documentation xml:lang="en">
                <xhtml:p ism:ownerProducer="USA" ism:classification="U"> The coordinates for a position
                within a coordinate reference system (CRS). </xhtml:p>
            </xsd:documentation>
        </xsd:annotation>
    </xsd:attribute>
    <xsd:attributeGroup ref="gml:SRSReferenceGroup"/>
</xsd:attributeGroup>

<xsd:simpleType name="DoubleListType">
    <xsd:list itemType="xsd:double"/>
</xsd:simpleType>

<xsd:element name="Facility">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A facility is a structure or a
            collection of structures with a unified function. A facility is defined as a real property
            performing a unique function that consists of one ore more of the following: a building, a
            structure, a utility system, pavement, and underlying land. The content of the element
            should be the facility name or description. The attributes may be used to tie the facility
            to a specific identification number or point location. The link attributes may be used to
            cause this element to be a hyperlink-to the corresponding facility record in the MIDB, for
            example. Attributes "gml:axisLabels" and "gml:uomLabels" are only specified due to the
            fact that they are included in the "SRSReferenceGroup" attribute group in the GML schema.
            They should not be used in PUBS.XML compliant XML markup. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>

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</xsd:annotation>
<xsd:complexType>
  <xsd:complexContent>
    <xsd:extension base="cem:DescriptiveElementType">
      <xsd:attribute name="BENumber" type="cem:BENumberType" use="optional">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Basic Encyclopedia number.
          </xhtml:p>
        </xsd:documentation>
      </xsd:annotation>
    </xsd:attribute>
    <xsd:attribute name="Osuffix" type="cem:OsuffixType" use="optional">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">
          <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A designator for a facility
            or demographic area, consisting of a system-assigned originator code, followed by
            a one-up number. </xhtml:p>
        </xsd:documentation>
      </xsd:annotation>
    </xsd:attribute>
    <xsd:attribute name="categoryCode" type="xsd:string" use="optional">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">
          <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A code that categorizes a
            facility. </xhtml:p>
        </xsd:documentation>
      </xsd:annotation>
    </xsd:attribute>
    <xsd:attribute name="geographicReference" type="xsd:string" use="optional">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">
          <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A geographic location
            specified in terms of latitude and longitude or of grid coordinates. </xhtml:p>
        </xsd:documentation>
      </xsd:annotation>
    </xsd:attribute>
    <xsd:attributeGroup ref="cem:GMLPosAttributesGroup"/>
    <xsd:attributeGroup ref="virt:SimpleOrResourceLinkAttributesGroup"/>
    <xsd:attributeGroup ref="cem:CoordinatesAttributeGroup"/>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
</xsd:element>

<xsd:simpleType name="OsuffixType">
  <xsd:restriction base="xsd:string">
    <xsd:pattern value="[A-Z]{2}[0-9]{3}"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:element name="GeoFeature">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">

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        <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A description of a physical
representation on the earth. </xhtml:p>
    </xsd:documentation>
</xsd:annotation>
<xsd:complexType>
    <xsd:complexContent>
        <xsd:extension base="cem:DescriptiveElementType">
            <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
            <xsd:attribute name="geoFeatureType" type="cem:GeoFeatureType" use="required">
                <xsd:annotation>
                    <xsd:documentation>
                        <xhtml:p ism:ownerProducer="USA" ism:classification="U">Denotes the type of the
GeoFeature (Artificial, Natural, Abstract) - Natural: Naturally-occurring
features, including landforms, terrain types, ecosystems, etc. - Artificial:
Man-made features, including cities, bridges, highways, etc. - Abstract:
Constructs that have location that does not exist in the physical world, including
political borders, latitude/longitude lines, etc.</xhtml:p>
                    </xsd:documentation>
                </xsd:annotation>
            </xsd:attribute>
            <xsd:attributeGroup ref="cem:CoordinatesAttributeGroup"/>
        </xsd:extension>
    </xsd:complexContent>
</xsd:complexType>
</xsd:element>

<xsd:simpleType name="GeoFeatureType">
    <xsd:restriction base="xsd:NMTOKEN">
        <xsd:enumeration value="Natural"/>
        <xsd:enumeration value="Artificial"/>
        <xsd:enumeration value="Abstract"/>
    </xsd:restriction>
</xsd:simpleType>

<xsd:element name="GeoRef">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> An artificially- or
naturally-occurring topographical entity. Attributes "gml:axisLabels" and "gml:uomLabels"
are only specified due to the fact that they are included in the "SRSReferenceGroup"
attribute group in the GML schema. They should not be used in PUBS.XML compliant XML
markup. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:complexType>
        <xsd:complexContent>
            <xsd:extension base="cem:DescriptiveElementType">
                <xsd:attribute name="referenceType"
                    type="cem:GeographicReferenceSystemType"
                    use="optional">
                    <xsd:annotation>
                        <xsd:documentation xml:lang="en">
                            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A type specification for a
geographic reference. </xhtml:p>
                        </xsd:documentation>
                    </xsd:annotation>
                </xsd:attribute>
            </xsd:extension>
        </xsd:complexContent>
    </xsd:complexType>
</xsd:element>

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        </xsd:documentation>
      </xsd:annotation>
    </xsd:attribute>
    <xsd:attributeGroup ref="cem:CoordinatesAttributeGroup"/>
    <xsd:attributeGroup ref="cem:GMLPosAttributesGroup"/>
    <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
</xsd:element>

<xsd:simpleType name="GeographicReferenceSystemType">
  <xsd:restriction base="xsd:NMTOKEN">
    <xsd:enumeration value="GeographicCoordinates"/>
    <xsd:enumeration value="MilitaryGridReference"/>
    <xsd:enumeration value="WorldGeographicReference"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:element name="Identifier">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Tags occurrences of conventional
structured text used to identify an entity, such as a model number, phone number, SSN,
MGR, etc. </xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:complexContent>
      <xsd:extension base="cem:DescriptiveElementType">
        <xsd:attribute name="identifierType" type="cemident:CVEEnumCemIdentifierType"/>
        <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
</xsd:element>

<xsd:element name="InfoBearer">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Tags references to an
information-bearing object, such as a document (book, paper, passport, etc), recording,
credit card, etc. </xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:complexContent>
      <xsd:extension base="cem:DescriptiveElementType">
        <xsd:attribute name="identifierType" type="cemident:CVEEnumCemIdentifierType"/>
        <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
</xsd:element>

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<xsd:element name="LocationOfInterest">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> An entity that is non-topographical
or has a non-permanent location. Use this generic element to tag places when specific
elements like "BENumber", "CountryName" or "Facility" do not apply. </xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:complexContent>
      <xsd:extension base="cem:DescriptiveElementType">
        <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
        <xsd:attributeGroup ref="cem:CoordinatesAttributeGroup"/>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
</xsd:element>

<xsd:element name="MilitaryUnit">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Designator for a specific military
unit. </xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:complexContent>
      <xsd:extension base="cem:DescriptiveElementType">
        <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
</xsd:element>

<xsd:element name="Money">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Tags references (both numeric and
textual) to moneys and monetary amounts. </xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:complexContent>
      <xsd:extension base="cem:DescriptiveElementType">
        <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
</xsd:element>

<xsd:element name="Nomenclature">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">

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        <xhtml:p ism:ownerProducer="USA" ism:classification="U"> An equipment type- or
family-designator. </xhtml:p>
    </xsd:documentation>
</xsd:annotation>
<xsd:complexType>
    <xsd:complexContent>
        <xsd:extension base="cem:DescriptiveElementType">
            <xsd:attribute name="vocabulary" type="xsd:string" use="optional">
                <xsd:annotation>
                    <xsd:documentation xml:lang="en">
                        <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A list of words, codes
and/or phrases: a lexicon. </xhtml:p>
                    </xsd:documentation>
                </xsd:annotation>
            </xsd:attribute>
            <xsd:attribute name="alias" type="xsd:string" use="optional">
                <xsd:annotation>
                    <xsd:documentation xml:lang="en">
                        <xhtml:p ism:ownerProducer="USA" ism:classification="U"> An alternative name or
acronym for a piece of equipment. </xhtml:p>
                    </xsd:documentation>
                </xsd:annotation>
            </xsd:attribute>
            <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
        </xsd:extension>
    </xsd:complexContent>
</xsd:complexType>
</xsd:element>

<xsd:element name="Organization">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A name of a group of persons or
other entities organized for some end or work. This element is provided for the purpose of
tagging references to organizations when the references occur in running text. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:complexType>
        <xsd:complexContent>
            <xsd:extension base="cem:DescriptiveElementType">
                <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
            </xsd:extension>
        </xsd:complexContent>
    </xsd:complexType>
</xsd:element>

<xsd:element name="Person">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> The proper name, nickname or alias
of a person; or a reference to a person. This element is provided to support tagging of
names or references to people that occur in running text. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>

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<xsd:complexType>
  <xsd:complexContent>
    <xsd:extension base="cem:DescriptiveElementType">
      <xsd:attribute name="givenName" type="xsd:string" use="optional">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A name given to a person at
            birth or baptism. Note that, in this implementation, attribute "givenName" may
            include initials as well as first name(s). The information provided, when
            concatenated with the value of "surname", should form a proper name for
            addressing. </xhtml:p>
          </xsd:documentation>
        </xsd:annotation>
      </xsd:attribute>
      <xsd:attribute name="surname" type="xsd:string" use="optional">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A name shared in common to
            identify members of a family; also called "last name". </xhtml:p>
          </xsd:documentation>
        </xsd:annotation>
      </xsd:attribute>
      <xsd:attribute name="nickname" type="xsd:string" use="optional">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A name by which a person is
            called familiarly, other than his/her real name. </xhtml:p>
          </xsd:documentation>
        </xsd:annotation>
      </xsd:attribute>
      <xsd:attribute name="phonetic" type="xsd:string" use="optional">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A representation of the
            pronunciation of a foreign proper name. </xhtml:p>
          </xsd:documentation>
        </xsd:annotation>
      </xsd:attribute>
      <xsd:attribute name="rank" type="xsd:string" use="optional">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Official position or grade
            of a military or, when applicable, civilian person. </xhtml:p>
          </xsd:documentation>
        </xsd:annotation>
      </xsd:attribute>
      <xsd:attribute name="position" type="xsd:string" use="optional">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Official duty or job title
            of an individual. </xhtml:p>
          </xsd:documentation>
        </xsd:annotation>
      </xsd:attribute>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>

```



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    <xsd:attribute name="honorific" type="xsd:string" use="optional">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">
          <xhtml:p ism:ownerProducer="USA" ism:classification="U"> An honorary title (such as
            Nobel Laureate), an academic degree (such as Juris Doctor), or other distinctive
            recognition. Multiple honorifics, if applicable, shall be included in this single
            attribute value with appropriate separation characters inserted. </xhtml:p>
          </xsd:documentation>
        </xsd:annotation>
      </xsd:attribute>
    <xsd:attribute name="KTC" type="xsd:string" use="optional">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">
          <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Korean Telephone Code for
            distinguishing between various possible translations of a name. </xhtml:p>
          </xsd:documentation>
        </xsd:annotation>
      </xsd:attribute>
    <xsd:attribute name="format" use="optional">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">
          <xhtml:p ism:ownerProducer="USA" ism:classification="U"> The cultural style of
            expression of proper names. </xhtml:p>
          </xsd:documentation>
        </xsd:annotation>
      <xsd:simpleType>
        <xsd:restriction base="xsd:NMTOKEN">
          <xsd:enumeration value="Eastern"/>
          <xsd:enumeration value="Western"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:attribute>
    <xsd:attributeGroup ref="virt:SimpleOrResourceLinkAttributesGroup"/>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
</xsd:element>

<xsd:element name="QuantityReference">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A reference to a specified number
        or amount of a thing. This element is provided for the purpose of tagging references to
        quantities when the references occur in running text. </xhtml:p>
      </xsd:documentation>
    </xsd:annotation>
  <xsd:complexType>
    <xsd:complexContent>
      <xsd:extension base="cem:DescriptiveElementType">
        <xsd:attribute name="normalizedQuantity" type="xsd:double" use="required">
          <xsd:annotation>
            <xsd:documentation xml:lang="en">
              <xhtml:p ism:ownerProducer="USA" ism:classification="U"> The magnitude of a quantity
                reference represented in a simple numerical. </xhtml:p>
            </xsd:documentation>
          </xsd:annotation>
        </xsd:attribute>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
</xsd:element>

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        </xsd:documentation>
      </xsd:annotation>
    </xsd:attribute>
    <xsd:attribute name="unitOfMeasure" type="xsd:string" use="required">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">
          <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A determinate quantity or
            magnitude of the kind designated, taken as a standard of comparison for others of
            the same kind, in assigning to them numerical values, as 1 foot, 1 yard, 1 mile, 1
            square foot, 1 square yard, 1 cubic foot, 1 peck, 1 bushel, 1 gallon, 1 cent, 1
            ounce, 1 pound, 1 hour, and the like. </xhtml:p>
          </xsd:documentation>
        </xsd:annotation>
      </xsd:attribute>
    <xsd:attribute name="unitOfMeasureVocabulary">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">
          <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A specific list of possible
            values for the attributes unitOfMeasure. </xhtml:p>
          </xsd:documentation>
        </xsd:annotation>
      <xsd:simpleType>
        <xsd:restriction base="xsd:string">
          <xsd:enumeration value="UNECE20"/>
          <xsd:enumeration value="ISO4217-3"/>
          <xsd:enumeration value="ISO4217-NR"/>
        </xsd:restriction>
      </xsd:simpleType>
    </xsd:attribute>
    <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
  </xsd:extension>
</xsd:complexContent>
</xsd:complexType>
</xsd:element>

<xsd:element name="SystemClass">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> The class of the system, which
        specifies a subgroup within the System Type. Use this element to tag system class
        designators that occur in running text. </xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:complexContent>
      <xsd:extension base="cem:DescriptiveElementType">
        <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
      </xsd:extension>
    </xsd:complexContent>
  </xsd:complexType>
</xsd:element>

<xsd:element name="Term">
  <xsd:annotation>

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```

        <xsd:documentation xml:lang="en">
          <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A word or phrase designating
something of interest, especially in a particular field such as intelligence. This element
may be used to tag descriptors in running text for categorization, glossaries, indexing,
and/or retrieval. </xhtml:p>
        </xsd:documentation>
      </xsd:annotation>
    <xsd:complexType>
      <xsd:complexContent>
        <xsd:extension base="cem:DescriptiveElementType">
          <xsd:attribute name="termType" type="xsd:string" use="optional">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">
                <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A classification of a word
or phrase in running text as being an acronym, an English word or phrase, or a
foreign word or phrase. </xhtml:p>
              </xsd:documentation>
            </xsd:annotation>
          </xsd:attribute>
          <xsd:attribute name="termDefinition" type="xsd:string" use="optional">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">
                <xhtml:p ism:ownerProducer="USA" ism:classification="U"> An explanation of the
meaning of a term; for example, the full spelling of an abbreviation or acronym,
or a description of a scientific term. </xhtml:p>
              </xsd:documentation>
            </xsd:annotation>
          </xsd:attribute>
          <xsd:attribute name="vocabulary" type="xsd:string" use="optional">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">
                <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A list of words, codes
and/or phrases: a lexicon. </xhtml:p>
              </xsd:documentation>
            </xsd:annotation>
          </xsd:attribute>
          <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
        </xsd:extension>
      </xsd:complexContent>
    </xsd:complexType>
  </xsd:element>

<xsd:element name="Time">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A number or term expressing an
instant in the continuum of hours, minutes and seconds of a day. </xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:complexContent>
      <xsd:extension base="cem:DescriptiveElementType">
        <xsd:attribute name="normalizedTime" type="cem:ISO8601TimeType" use="optional">
          <xsd:annotation>

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        <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A time of day represented
            in accordance with the W3C Profile of ISO 8601:2000. The datatype is a union of
            the W3C datatype "time" and an PUBS.XML schema-defined simple type called
            "hourMinType" which restricts the "string" datatype to a pattern allowing seconds
            to be optional. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
</xsd:attribute>
<xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>
</xsd:element>

<xsd:simpleType name="ISO8601TimeType">
    <xsd:union memberTypes="xsd:time cem:hourMinType"/>
</xsd:simpleType>

<xsd:simpleType name="hourMinType">
    <xsd:restriction base="xsd:string">
        <xsd:pattern value="[0-9]{2}:[0-9]{2}(Z|[\-\\+][0-9]{2}:[0-9]{2})?" />
    </xsd:restriction>
</xsd:simpleType>

<xsd:element name="TransportationNetwork">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> A named network of highways,
            railways, or other modes of transportation, usually designed for the movement of people or
            commodities in a geographically unique area or region. (ex. Route 66, B and O Railroad,
            Erie Canal) </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:complexType>
        <xsd:complexContent>
            <xsd:extension base="cem:DescriptiveElementType">
                <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
            </xsd:extension>
        </xsd:complexContent>
    </xsd:complexType>
</xsd:element>

<xsd:element name="Vehicle">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Tags references to a constructed
            object used as a conveyance, such as bus, motorcycle, aircraft, APC, etc. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
    <xsd:complexType>
        <xsd:complexContent>
            <xsd:extension base="cem:DescriptiveElementType">
                <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
            </xsd:extension>
        </xsd:complexContent>
    </xsd:complexType>
</xsd:element>

```

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        </xsd:extension>
      </xsd:complexContent>
    </xsd:complexType>
  </xsd:element>

  <xsd:element name="Weapon">
    <xsd:annotation>
      <xsd:documentation xml:lang="en">
        <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Tags references to an instrument
        used for combat, such as pistol, AK-47, RPG, battleaxe, artillery shell, etc. </xhtml:p>
      </xsd:documentation>
    </xsd:annotation>
    <xsd:complexType>
      <xsd:complexContent>
        <xsd:extension base="cem:DescriptiveElementType">
          <xsd:attributeGroup ref="virt:OptionalResourceLinkAttributesGroup"/>
        </xsd:extension>
      </xsd:complexContent>
    </xsd:complexType>
  </xsd:element>

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

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

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

  <xsd:annotation>
    <xsd:documentation>
      <xhtml:h2 ism:ownerProducer="USA" ism:classification="U">Formal Change List
CEM.XML</xhtml:h2>
      <xhtml:table ism:ownerProducer="USA" ism:classification="U" id="ChangeHistory">
        <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>2018-APR</xhtml:td>
            <xhtml:td>2018-02-01</xhtml:td>
            <xhtml:td>ODNI/IC CIO/IAD</xhtml:td>
            <xhtml:td>
              For schema change history, reference the change history in the DES.
            </xhtml:td>
          </xhtml:tr>
        </xhtml:tbody>
      </xhtml:table>
    </xsd:documentation>
  </xsd:annotation>

```

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