



# **Guide to Schemas for ROLE**

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## **ROLE Schema Guide**

**Version 2021-NOV**

December 1, 2022

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# Table of Contents

Chapter 1 - Introduction .....	1
1.1 - Purpose .....	1
Chapter 2 - Schema Files .....	2
2.1 - ROLE.xsd .....	2

**Chapter 1 - Introduction**

**1.1 - Purpose**

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

Chapter 2 - Schema Files

2.1 - ROLE.xsd

```
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
            xmlns:role="urn:us:gov:ic:role"
            xmlns:roletype="urn:us:gov:ic:cvenum:role:enterprise:role"
            xmlns:xhtml="http://www.w3.org/1999/xhtml-StopBrowserRendering"
            targetNamespace="urn:us:gov:ic:role"
            attributeFormDefault="qualified"
            elementFormDefault="qualified"
            xml:lang="en"
            ism:compliesWith="USGov USIC"
            ism:resourceElement="true"
            ism:createDate="2020-08-29"
            ism:DESVersion="202111"
            ism:ISMCAICESVersion="202205"
            ism:classification="U"
            ism:ownerProducer="USA"
            version="202111">

    <xsd:annotation>
        <xsd:documentation>
            <xhtml:h1 ism:ownerProducer="USA" ism:classification="U">Intelligence Community
Technical Specification CVE Encoding Specification for Role
(ROLE.CES)</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 CVE
Encoding Specification for ROLE (ROLE.CES). </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 CVE Encoding Specification (CES). Please see the document titled <xhtml:i>
            <xhtml:a href="../../Documents/ROLE/CesRoleXml.pdf"> CVE Encoding Specification for
Role</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 CES may be overridden for
localized implementations. Therefore, permission to use, copy, modify and distribute
this XML Schema and the other parts of the CES 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 CES 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 ROLE.CES. </xhtml:p>
        <xhtml:p ism:ownerProducer="USA" ism:classification="U"> Please direct all questions,
bug reports, or suggestions for changes to the points of contact identified in the
document referenced above. </xhtml:p>
    </xsd:documentation>
    <xsd:documentation>
        <xhtml:h2 ism:ownerProducer="USA" ism:classification="U">Implementation Notes</xhtml:h2>
        <xhtml:p ism:ownerProducer="USA" ism:classification="U">The root element for ROLE is
<xhtml:a href="ROLE_xsd_Element_role_Role.html#Role">role:Role</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 Community Chief Information Officer</xhtml:p>
    </xsd:documentation>
</xsd:annotation>

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

<xsd:element name="Role" type="role:roleType">
    <xsd:annotation>
        <xsd:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> An element limited to allowable
roles. </xhtml:p>
        </xsd:documentation>
    </xsd:annotation>
</xsd:element>

<xsd:attribute name="role" type="role:roleType">

```

```
<xsd:annotation>
  <xsd:documentation xml:lang="en">
    <xhtml:p ism:ownerProducer="USA" ism:classification="U"> An attribute limited to allowable
roles. </xhtml:p>
  </xsd:documentation>
</xsd:annotation>
</xsd:attribute>

<xsd:simpleType name="roleType">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:classification="U" ism:ownerProducer="USA">Indicates the position, job
or area of responsibility associated with the entity</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:restriction>
    <xsd:simpleType>
      <xsd:list itemType="role:roleItemType"/>
    </xsd:simpleType>
    <xsd:minLength value="1"/>
    <xsd:maxLength value="500"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="roleItemType">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:classification="U" ism:ownerProducer="USA">Union of the allowed Role
types</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:union memberTypes="role:roleC2SItemType role:roleNebulaItemType role:rolePAASItemType role:roleEnterpriseItemType"/>
</xsd:simpleType>

<xsd:simpleType name="roleEnterpriseItemType">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:classification="U" ism:ownerProducer="USA">Indicates the Enterprise Role
associated with the entity</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:NMTOKEN">
    <xsd:pattern value="ENT\[A-Za-z0-9_\]{1,255}(\[A-Za-z0-9_\]{1,255})"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="roleNebulaItemType">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:classification="U" ism:ownerProducer="USA">Indicates the Nebula Role
associated with the entity</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:NMTOKEN">
```

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    <xsd:pattern value="Nebula-CIA\"-[A-Za-z0-9_]{1,255}"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="rolePAASItemType">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:classification="U" ism:ownerProducer="USA">Indicates the PAAS position,
job or area of responsibility associated with the entity</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:NMTOKEN">
    <xsd:pattern value="PAAS\"-[A-Z0-9_.]{1,255}(\\"-[A-Za-z0-9_]{1,255}){2}\"-[A-Z0-9_]{1,64}"/>
  </xsd:restriction>
</xsd:simpleType>

<xsd:simpleType name="roleC2SItemType">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:p ism:classification="U" ism:ownerProducer="USA">Indicates the C2S position,
job or area of responsibility associated with the entity</xhtml:p>
    </xsd:documentation>
  </xsd:annotation>
  <xsd:restriction base="xsd:NMTOKEN">
    <xsd:pattern value="C2S\"-[A-Z0-9_.]{1,255}(\\"-[A-Za-z0-9_]{1,255}){2}\"-[A-Z0-9_]{1,64}"/>
  </xsd:restriction>
</xsd:simpleType>

<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" 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>2021-NOV</xhtml:td>
          <xhtml:td>2020-08-29</xhtml:td>
          <xhtml:td>ODNI/IC CIO/IAD</xhtml:td>
          <xhtml:td>For changes to schema, reference
the change history in the CES. </xhtml:td>
        </xhtml:tr>
      </xhtml:tbody>
    </xhtml:table>
  </xsd:documentation>
</xsd:annotation>
</xsd:schema>
```