



# **Guide to Schemas for FAC**

---

## **FAC Schema Guide**

**Version 2022-NOV**

December 1, 2022

Distribution Notice:

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

# Table of Contents

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

**Chapter 1 - Introduction**

**1.1 - Purpose**

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

Chapter 2 - Schema Files

2.1 - FineAccessControl.xsd

```
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
            xmlns:fac="urn:us:gov:ic:fineaccesscontrol"
            xmlns:factype="urn:us:gov:ic:cvenum:fac:fineaccesscontroltype"
            xmlns:xhtml="http://www.w3.org/1999/xhtml-StopBrowserRendering"
            targetNamespace="urn:us:gov:ic:fineaccesscontrol"
            attributeFormDefault="qualified"
            elementFormDefault="qualified"
            xml:lang="en"
            ism:resourceElement="true"
            ism:createDate="2013-11-22"
            ism:DESVersion="202111"
            ism:ISMCAICESVersion="202205"
            ism:compliesWith="USGov USIC"
            ism:classification="U"
            ism:ownerProducer="USA"
            version="202211">

    <xs:annotation>
        <xs:documentation>
            <xhtml:h1 ism:ownerProducer="USA" ism:classification="U">Intelligence Community
Technical Specification CVE Encoding Specification for Fine Access Controls
(FAC.CES)</xhtml:h1>
        </xs:documentation>

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

</xhtml:p>

        </xs:documentation>
        <xs:documentation>
            <xhtml:h2 ism:ownerProducer="USA" ism:classification="U">Description</xhtml:h2>
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> W3C XML Schema for the CVE
Encoding Specification for Fine Access Control (FAC.CES). </xhtml:p>
        </xs:documentation>
        <xs:documentation>
            <xhtml:h2 ism:ownerProducer="USA" ism:classification="U">Introduction</xhtml:h2>
            <xhtml:p ism:ownerProducer="USA" ism:classification="U"> This Schema file is one
component of the CVE Encoding Specification (CES). Please see the document
titled <xhtml:i>
                <xhtml:a href="../../Documents/FAC/CesFacXml.pdf">CVE Encoding Specification
for Fine Access Control</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 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 Schema
in any way label your schema as a variant of FAC.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>
</xs:documentation>
<xs:documentation>
    <xhtml:h2 ism:ownerProducer="USA" ism:classification="U">Implementation Notes</xhtml:h2>
    <xhtml:p ism:ownerProducer="USA" ism:classification="U">FAC does not have a root
node. There are one or more peer elements that reference each of its CVE schema
fragments.
</xhtml:p>
</xs:documentation>
<xs:documentation>
    <xhtml:h2 ism:ownerProducer="USA" ism:classification="U">Creators</xhtml:h2>
    <xhtml:p ism:ownerProducer="USA" ism:classification="U">Office of the Director of
National Intelligence Intelligence Community Chief Information Officer</xhtml:p>
</xs:documentation>
</xs:annotation>

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

<xs:import namespace="urn:us:gov:ic:cvenum:fac:fineaccesscontroltype"
    schemaLocation="./CVEGenerated/CVEnumFineAccessControlType.xsd"/>

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

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

```
<xs:element name="Fac" type="factype:CVEEnumFineAccessControlType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> An element limited to
allowable Fine Access Controls. </xhtml:p>
    </xs:documentation>
  </xs:annotation>
</xs:element>

<xs:attribute name="fac" type="factype:CVEEnumFineAccessControlType">
  <xs:annotation>
    <xs:documentation xml:lang="en">
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> An attribute limited to
allowable Fine Access Controls. </xhtml:p>
    </xs:documentation>
  </xs:annotation>
</xs:attribute>

<xs:annotation>
  <xs: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>2018-APR</xhtml:td>
          <xhtml:td>2017-10-23</xhtml:td>
          <xhtml:td>ODNI/IC CIO/IAD</xhtml:td>
          <xhtml:td>
            <xhtml:ul>
              <xhtml:li ism:ownerProducer="USA" ism:classification="U"> The schema
change logs will no longer be maintained as of the 2018-APR
release. The existing change logs will only serve as legacy
information. For changes to schema as of and after 2018-APR,
reference the change history in the DES.</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/OCIO/ICEA</xhtml:td>
          <xhtml:td>
            <xhtml:ul>
              <xhtml:li ism:ownerProducer="USA" ism:classification="U"> Enforced
DESVersion with a pattern instead of a fixed value to allow
```

```

        extension versions</xhtml:li>
            </xhtml:ul>
        </xhtml:td>
    </xhtml:tr>
    <xhtml:tr>
        <xhtml:td>2014-DEC</xhtml:td>
        <xhtml:td>2014-12-4</xhtml:td>
        <xhtml:td>ODNI/OCIO/ICEA</xhtml:td>
        <xhtml:td>
            <xhtml:ul>
                <xhtml:li ism:ownerProducer="USA" ism:classification="U"> Remove
REGEX representation for CESVersion</xhtml:li>
            </xhtml:ul>
        </xhtml:td>
    </xhtml:tr>
    <xhtml:tr>
        <xhtml:td>1</xhtml:td>
        <xhtml:td>2013-11-22</xhtml:td>
        <xhtml:td>ODNI/OCIO/ICEA</xhtml:td>
        <xhtml:td>
            <xhtml:ul>
                <xhtml:li ism:ownerProducer="USA" ism:classification="U"> Initial
release of this module</xhtml:li>
            </xhtml:ul>
        </xhtml:td>
    </xhtml:tr>
</xhtml:tbody>
</xhtml:table>
</xs:documentation>
</xs:annotation>
</xs:schema>
```