



Guide to Schemas for RevRecall

RevRecall Schema Guide

Version 2021-NOVr2022-MAY

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 - RevRecall_XML.xsd	2
2.2 - SchemaGuideSchema.xsd	8

Chapter 1 - Introduction

1.1 - Purpose

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

Chapter 2 - Schema Files

2.1 - RevRecall_XML.xsd

```
<xs:schema xmlns:rr="urn:us:gov:ic:revrecall"
            xmlns:xs="http://www.w3.org/2001/XMLSchema"
            xmlns:arh="urn:us:gov:ic:arh"
            xmlns:xhtml="http://www.w3.org/1999/xhtml-StopBrowserRendering"
            xmlns:virt="urn:us:gov:ic:virt"
            xmlns:rraction="urn:us:gov:ic:cenum:revrecall:action"
            xmlns:rrtype="urn:us:gov:ic:cenum:revrecall:type"
            xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
            xsi:schemaLocation="http://www.w3.org/2001/XMLSchema ../w3/2001/XMLSchema.xsd"
            targetNamespace="urn:us:gov:ic:revrecall"
            elementFormDefault="qualified"
            attributeFormDefault="qualified"
            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="202111.202205">

    <xs:import namespace="urn:us:gov:ic:ism" schemaLocation="../ISM/IC-ISM.xsd"/>
    <xs:import namespace="urn:us:gov:ic:arh" schemaLocation="../ISM/IC-ARH.xsd"/>
    <xs:import namespace="http://www.w3.org/1999/xlink"
                schemaLocation="../w3/1999/xlink/xlink.xsd"/>
    <xs:import namespace="urn:us:gov:ic:cenum:revrecall:action"
                schemaLocation="../CVEGenerated/CVEnumRevRecallAction.xsd"/>
    <xs:import namespace="urn:us:gov:ic:cenum:revrecall:type"
                schemaLocation="../CVEGenerated/CVEnumRevRecallType.xsd"/>

    <xs:annotation>
        <xs:documentation>
            <xhtml:h1 ism:ownerProducer="USA" ism:classification="U">Intelligence Community
Technical Specification</xhtml:h1>
            <xhtml:h2 ism:ownerProducer="USA" ism:classification="U">XML Data Encoding Specification
for Revision Recall (RevRecall)</xhtml:h2>
        </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 XML Data
Encoding Specification Intelligence Community Metadata Standard for Revision Recall
(RvRecall).</xhtml:p>
        </xs:documentation>
    </xs:annotation>

```

```
<xs:documentation>
  <xhtml:h2 ism:ownerProducer="USA" ism:classification="U">Introduction</xhtml:h2>
  <xhtml:p ism:ownerProducer="USA" ism:classification="U">This XML Schema file is one
component of the XML Data Encoding Specification (DES). Please see the document
titled <xhtml:i>
  <xhtml:a href="../../Documents/RevRecall/DesRevRecallXml.pdf">XML Data Encoding
Specification for Revision Recall</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 RevRecall.XML.</xhtml:p>
  <xhtml:p ism:ownerProducer="USA" ism:classification="U">Please direct all questions, bug
reports,or suggestions for changes to the points of contact identified in the
document referenced above.</xhtml:p>
</xs:documentation>
<xs:documentation>
  <xhtml:h2 ism:ownerProducer="USA" ism:classification="U">Implementation Notes</xhtml:h2>
  <xhtml:p ism:ownerProducer="USA" ism:classification="U">A RevRecall.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="RevRecall_XML_xsd_Element_rr_RevisionRecall.html#RevisionRecall">rr:RevisionRecall</xhtml:a>
    </xhtml:li>
  </xhtml:ul>
</xhtml:ul>
  <xhtml:p ism:ownerProducer="USA" ism:classification="U">The document element for REVRECALL is
<xhtml:a href="RevRecall_XML_xsd_Element_rr_RevisionRecall.html#RevisionRecall">rr:RevisionRecall</xhtml:a>.</xhtml:p>
</xs:documentation>
<xs:documentation>
  <xhtml:h2 ism:ownerProducer="USA" ism:classification="U">Creators</xhtml:h2>
  <xhtml:p ism:ownerProducer="USA" ism:classification="U">Office of the Director of
National Intelligence Intelligence Community Chief Information Officer</xhtml:p>
</xs:documentation>
</xs:annotation>

<!-- Global Elements -->

<xs:element name="RevisionRecall">
  <xs:annotation>
    <xs:documentation xml:lang="en">
```

```

    <xhtml:p ism:ownerProducer="USA" ism:classification="U">The root element of RevisionRecall.</xhtml:p>
  </xs:documentation>
</xs:annotation>
<xs:complexType>
  <xs:complexContent>
    <xs:extension base="rr:RevisionRecallType">
      <xs:attribute ref="rr:DESVersion" use="required"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
</xs:element>

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

<!-- Type Definitions -->

<xs:complexType name="RevisionRecallType">
  <xs:annotation>
    <xs:documentation>
      <xhtml:p ism:ownerProducer="USA" ism:classification="U">This element represents a list
of indicators for revision or recall of a previously released document.</xhtml:p>
    </xs:documentation>
    <xs:appinfo xml:lang="en"> ICPM 2020-200-01 titled Intelligence Community Standards and
Procedures for Revised or Recalled Intelligence Products specified how to indicate,
in a textual form, the revision or recall of a previously released document. This
element specifies methods for conveying revision and recall indicators and
additional data in XML. </xs:appinfo>
  </xs:annotation>
  <xs:sequence>
    <xs:element ref="arh:Security" minOccurs="1" maxOccurs="1">
      <xs:annotation>
        <xs:documentation>
          <xhtml:p ism:classification="U" ism:ownerProducer="USA"> Used for expressing the
access rights and handling information for a Revision Recall data object.
          </xhtml:p>
        </xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
```

```
        </xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="ProductTitle" type="ism:LongStringWithSecurityType">
      <xs:annotation>
        <xs:documentation>
          <xhtml:p ism:classification="U" ism:ownerProducer="USA"> The subject title
            of the intelligence product being revised or recalled.</xhtml:p>
          </xs:documentation>
        </xs:annotation>
      </xs:element>
      <xs:element name="Reason"
        minOccurs="1"
        maxOccurs="1"
        type="ism:LongStringWithSecurityType">
        <xs:annotation>
          <xs:documentation>
            <xhtml:p ism:ownerProducer="USA" ism:classification="U">The reason for the
              revision or recall being issued.</xhtml:p>
            </xs:documentation>
          </xs:annotation>
        </xs:element>
        <xs:element name="POC" type="ism:LongStringWithSecurityType">
          <xs:annotation>
            <xs:documentation>
              <xhtml:p ism:ownerProducer="USA" ism:classification="U"> The Point of
                Contact for the Revision/Recall.</xhtml:p>
              </xs:documentation>
            </xs:annotation>
          </xs:element>
          <xs:element name="ActionInstruction"
            type="ism:LongStringWithSecurityType"
            minOccurs="0"
            maxOccurs="1">
            <xs:annotation>
              <xs:documentation>
                <xhtml:p ism:ownerProducer="USA" ism:classification="U">Used when the
                  @action attribute is "MANUAL_INSTRUCTION" to relay the instructions for
                  a human to perform upon receipt of the revision or recall.</xhtml:p>
                </xs:documentation>
              </xs:annotation>
            </xs:element>
            <xs:element name="Link" minOccurs="0" maxOccurs="unbounded">
              <xs:annotation>
                <xs:documentation>
                  <xhtml:p ism:classification="U" ism:ownerProducer="USA"> Link(s) to the
                    intelligence product or other relevant material.</xhtml:p>
                  </xs:documentation>
                </xs:annotation>
              <xs:complexType>
                <xs:attributeGroup ref="xlink:locatorAttrs"/>
                <xs:attributeGroup ref="ism:SecurityAttributesGroup"/>
              </xs:complexType>
            </xs:element>
```



```
</xs:sequence>
<xs:attribute name="id" type="xs:int" use="required">
  <xs:annotation>
    <xs:documentation>
      <xhtml:p ism:classification="U" ism:ownerProducer="USA"> A sequential integer
      for the revision. Higher numbers, referring to later revisions, take
      precedence over lower numbers.</xhtml:p>
    </xs:documentation>
  </xs:annotation>
</xs:attribute>
<xs:attribute name="type" use="required" type="rrtype:CVEEnumRevRecallType">
  <xs:annotation>
    <xs:documentation>
      <xhtml:p ism:ownerProducer="USA" ism:classification="U">Specifies the type of
      the revision or recall.</xhtml:p>
    </xs:documentation>
  </xs:annotation>
</xs:attribute>
<xs:attribute name="action" use="required" type="rraction:CVEEnumRevRecallAction">
  <xs:annotation>
    <xs:documentation>
      <xhtml:p ism:ownerProducer="USA" ism:classification="U">Indicates the action to
      be performed upon receipt of the revision or recall.</xhtml:p>
    </xs:documentation>
  </xs:annotation>
</xs:attribute>
<xs:attribute name="dateTime" type="xs:dateTime">
  <xs:annotation>
    <xs:documentation>
      <xhtml:p ism:ownerProducer="USA" ism:classification="U">The date the revision or
      recall was issued.</xhtml:p>
    </xs:documentation>
  </xs:annotation>
</xs:attribute>
</xs:complexType>
```

<!-- Change History -->

```
<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>
          <xhtml:td>Date</xhtml:td>
          <xhtml:td>By</xhtml:td>
          <xhtml:td>Description</xhtml:td>
        </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>
  <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>2014-12-04</xhtml:td>
  <xhtml:td>M. Lucas (ODNI/IC CIO/ME/EI&A</xhtml:td>
  <xhtml:td>
    <xhtml:ul>
      <xhtml:li ism:ownerProducer="USA" ism:classification="U"> Added ARH
Security element to RevisionRecall sequence</xhtml:li>
    </xhtml:ul>
  </xhtml:td>
</xhtml:tr>
<xhtml:tr>
  <xhtml:td>1</xhtml:td>
  <xhtml:td>2014-03-03</xhtml:td>
  <xhtml:td>Hodges (ODNI/IC CIO/ME/EIA)</xhtml:td>
  <xhtml:td>
    <xhtml:ul>
      <xhtml:li ism:ownerProducer="USA" ism:classification="U"> Initial
release</xhtml:li>
    </xhtml:ul>
  </xhtml:td>
</xhtml:tr>
</xhtml:tbody>
</xhtml:table>
</xs:documentation>
</xs:annotation>
</xs:schema>
```

2.2 - SchemaGuideSchema.xsd

```
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
            xmlns:xhtml="http://www.w3.org/1999/xhtml-StopBrowserRendering"
            xmlns:rr="urn:us:gov:ic:revrecall"
            attributeFormDefault="qualified"
            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="202111.202205"
            elementFormDefault="qualified"
            targetNamespace="urn:schema:guide:schema:rr"
            xml:lang="en">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:h1 ism:ownerProducer="USA" ism:classification="U">Intelligence Community
Technical Specification XML Data Encoding Specification for Revision/Recall
Metadata (RevRecall.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
Revision/Recall Metadata (RevRecall.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/RevRecall/DesRevRecallXml.pdf">XML Data Encoding Specification for Revision Recall</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 RevRecall.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 RevRecall.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="RevRecall_XML_xsd_Element_rr_RevisionRecall.html#RevisionRecall">rr:RevisionRecall</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="RevRecall_XML_xsd_Element_rr_RevisionRecall.html#RevisionRecall">rr:RevisionRecall</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 -->

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

<xsd:import namespace="urn:us:gov:ic:revrecall" schemaLocation="RevRecall_XML.xsd"/>

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

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

</xsd:schema>
```