



# **Guide to Schemas for ITS-MS**

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## **ITS-MS Schema Guide**

**Version 2015-FEBr2018-JUL**

December 1, 2022

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**Chapter 1 - Introduction**

**1.1 - Purpose**

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

Chapter 2 - Schema Files

2.1 - ITS-MS.xsd

```
<xs:schema xmlns:its="urn:us:gov:ic:its"
            xmlns:xs="http://www.w3.org/2001/XMLSchema"
            xmlns:xhtml="http://www.w3.org/1999/xhtml-StopBrowserRendering"
            xmlns:itsmsfabric="urn:us:gov:ic:cvenum:itsms:fabric"
            targetNamespace="urn:us:gov:ic:its"
            elementFormDefault="qualified"
            attributeFormDefault="unqualified"
            ism:resourceElement="true"
            ism:createDate="2012-11-14"
            ism:classification="U"
            ism:ownerProducer="USA"
            version="201502.201807"
            ism:ISMCAACESVersion="202205"
            ism:compliesWith="USGov USIC">
  <xs:import namespace="urn:us:gov:ic:ism" schemaLocation="../ISM/IC-ISM.xsd"/>
  <xs:import namespace="urn:us:gov:ic:cvenum:itsms:fabric"
            schemaLocation="../CVEGenerated/CVEnumITSMSFabric.xsd"/>
  <xs:annotation>
    <xs:documentation>
      <xhtml:h1 ism:ownerProducer="USA" ism:classification="U"> Intelligence Community
Technical Specification XML Data Encoding Specification for Information Transport
Service Messaging Service (ITS-MS.XML)</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:
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    </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 Information
Transport Service Messaging Service (ITS-MS.XML). </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 XML Schema file is one
component of the XML Data Encoding Specification (DES). Please see the document
titled <xhtml:i>
        <xhtml:a href="../../Documents/ITS-MS/DesItsMsXml.pdf">XML Data Encoding Specification
for Information Transport Service Messaging Service</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 ITS-MS.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:ul>
    <xhtml:li ism:ownerProducer="USA" ism:classification="U">The ITS assertion schema
defines the elements for routing objects within ITS. It contains
metadata such as the originator, recipient(s), security markings and delivery
speed of service. </xhtml:li>
    <xhtml:li ism:ownerProducer="USA" ism:classification="U">Refer to the <xhtml:i>
      <xhtml:a href="../../Documents/ITS-MS/DesItsMsXml.pdf">XML Data Encoding
Specification for Information Transport Service Messaging
Service</xhtml:a>
      </xhtml:i> (ITS-MS.XML DES) for additional information</xhtml:li>
  </xhtml:ul>
  <xhtml:p ism:ownerProducer="USA" ism:classification="U"> The root element for ITS-MS is: <xhtml:ul>
    <xhtml:li ism:ownerProducer="USA" ism:classification="U">
      <xhtml:a href="ITS-MS_xsd_Element_its_Its.html#Its">its:Its</xhtml:a>
    </xhtml:li>
  </xhtml:ul>
  </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="Its" type="its:ItsType">
  <xs:annotation>
    <xs:documentation>
      <xhtml:p ism:classification="U" ism:ownerProducer="USA"> Assertion Schema for ITS
Messaging Service. </xhtml:p>
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="Client" type="its:ClientType">
```

```

        <xs:annotation>
            <xs:documentation>
                <xhtml:p ism:classification="U" ism:ownerProducer="USA"> An ITS Client. </xhtml:p>
            </xs:documentation>
        </xs:annotation>
    </xs:element>
</xs:element>
<!--
Type Definitions
-->

<xs:complexType name="ItsType">
    <xs:annotation>
        <xs:documentation>
            <xhtml:p ism:classification="U" ism:ownerProducer="USA"> The contents and
its associated metadata.</xhtml:p>
        </xs:documentation>
    </xs:annotation>
    <xs:sequence>
        <xs:element name="MessageId" type="its:UUIDv4Type" minOccurs="0">
            <xs:annotation>
                <xs:documentation>
                    <xhtml:p ism:classification="U" ism:ownerProducer="USA">A version 4 universal
unique identifier (UUID) which can be used to track the transport of this
TDF from originating ITS client to all recipient ITS clients. This element
is optional when creating ITS-MS XML for transport by ITS, but will be
populated by the originating ITS client at the point of transport.</xhtml:p>
                </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="ObjectType" type="its:ObjectTypeValues">
            <xs:annotation>
                <xs:documentation>
                    <xhtml:p ism:classification="U" ism:ownerProducer="USA"> The type of data object.
All ITS files must be listed as either "AUDIT" or "ACINT". </xhtml:p>
                </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="Priority" type="its:PriorityType" minOccurs="0">
            <xs:annotation>
                <xs:documentation>
                    <xhtml:p ism:classification="U" ism:ownerProducer="USA"> A rating system that ranks
the importance of an object relative to others in the queue. </xhtml:p>
                </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="PublishDateTime" type="its:dateTime" minOccurs="0">
            <xs:annotation>
                <xs:documentation>
                    <xhtml:p ism:classification="U" ism:ownerProducer="USA"> Time that the object is
published to the Queue. </xhtml:p>
                </xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="Originator" type="its:OriginatorType">
```

```
<xs:annotation>
  <xs:documentation>
    <xhtml:p ism:classification="U" ism:ownerProducer="USA"> The originating ITS client. </xhtml:p>
  </xs:documentation>
</xs:annotation>
</xs:element>
<xs:element name="RecipientList" type="its:RecipientListType">
  <xs:annotation>
    <xs:documentation>
      <xhtml:p ism:classification="U" ism:ownerProducer="USA"> The ClientID for the receiving ITS client. </xhtml:p>
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="Topic" minOccurs="0" maxOccurs="unbounded">
  <xs:annotation>
    <xs:documentation>
      <xhtml:p ism:classification="U" ism:ownerProducer="USA"> Provides a field for indicating the general topic
of the object. </xhtml:p>
    </xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="xs:string">
        <xs:attributeGroup ref="ism:SecurityAttributesGroup"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
<xs:element name="encryptTDO" type="xs:boolean">
  <xs:annotation>
    <xs:documentation>
      <xhtml:p ism:classification="U" ism:ownerProducer="USA"> Boolean value indicating whether TDO should be encrypted
in transit is generally set to False. This indicates no encryption during transit. If the value is set to
True then encryption during transit applies. </xhtml:p>
    </xs:documentation>
  </xs:annotation>
</xs:element>
<xs:element name="Description" minOccurs="0">
  <xs:annotation>
    <xs:documentation>
      <xhtml:p ism:classification="U" ism:ownerProducer="USA"> Written representation or account about which the object
is concerned. </xhtml:p>
    </xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="xs:string">
        <xs:attributeGroup ref="ism:SecurityAttributesGroup"/>
      </xs:extension>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
<xs:element name="Fabric">
  <xs:annotation>
```



```

        <xs:documentation>
          <xhtml:p ism:classification="U" ism:ownerProducer="USA"> Expressly identifies the network domain from which the
object is originating. </xhtml:p>
        </xs:documentation>
      </xs:annotation>
    <xs:complexType>
      <xs:simpleContent>
        <xs:extension base="itsmsfabric:CVEEnumITSMSFabric">
          <xs:attributeGroup ref="ism:SecurityAttributesGroup"/>
        </xs:extension>
      </xs:simpleContent>
    </xs:complexType>
  </xs:element>
</xs:sequence>
<xs:attribute name="DESVersion" use="required" form="unqualified">
  <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>
</xs:complexType>
<xs:simpleType name="ObjectTypeValues">
  <xs:annotation>
    <xs:documentation>
      <xhtml:p ism:classification="U" ism:ownerProducer="USA"> The type of information
object being transmitted. </xhtml:p>
    </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:NMTOKEN">
    <xs:enumeration value="AUDIT"/>
    <xs:enumeration value="ACINT"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType name="PriorityType">
  <xs:restriction base="xs:NMTOKEN">
    <xs:enumeration value="URGENT"/>
    <xs:enumeration value="IMMEDIATE"/>
    <xs:enumeration value="ROUTINE"/>
  </xs:restriction>
</xs:simpleType>

```

```
<xs:simpleType name="UUIDv4Type" final="#all">
  <xs:annotation>
    <xs:documentation>
      <xhtml:p ism:classification="U" ism:ownerProducer="USA">
        A string that conforms to the pattern for a version 4 UUID as specified by RFC 4122.
      </xhtml:p>
    </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:pattern value="[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-4[A-Fa-f0-9]{3}-[89aAbB][A-Fa-f0-9]{3}-[A-Fa-f0-9]{12}"/>
  </xs:restriction>
</xs:simpleType>

<xs:complexType name="ClientType">
  <xs:annotation>
    <xs:documentation>
      <xhtml:p ism:classification="U" ism:ownerProducer="USA"> The Name for a client. </xhtml:p>
    </xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:element name="ClientId" type="xs:string">
      <xs:annotation>
        <xs:documentation>
          <xhtml:p ism:classification="U" ism:ownerProducer="USA"> Identifies the ITS Client which provides the
            delivery path to the recipient. </xhtml:p>
          </xs:documentation>
        </xs:annotation>
      </xs:element>
    </xs:sequence>
    <xs:attributeGroup ref="ism:SecurityAttributesGroup"/>
  </xs:complexType>
  <xs:complexType name="OriginatorType">
    <xs:sequence>
      <xs:element ref="its:Client"/>
      <xs:element name="CreateDateTime" type="its:dateTime">
        <xs:annotation>
          <xs:documentation>
            <xhtml:p ism:classification="U" ism:ownerProducer="USA"> The time that the originating client creates
              the object. </xhtml:p>
            </xs:documentation>
          </xs:annotation>
        </xs:element>
      <xs:element name="OriginatorObjectID" minOccurs="0">
        <xs:annotation>
          <xs:documentation>
            <xhtml:p ism:classification="U" ism:ownerProducer="USA"> Provides a field for an originating client to
              include a local identifier assigned to the object. </xhtml:p>
            </xs:documentation>
          </xs:annotation>
        <xs:complexType>
          <xs:simpleContent>
            <xs:extension base="xs:string">
              <xs:attributeGroup ref="ism:SecurityAttributesGroup"/>
            </xs:extension>
          </xs:simpleContent>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:complexType>
```

```

        </xs:simpleContent>
      </xs:complexType>
    </xs:element>
    <xs:element name="POC" minOccurs="0">
      <xs:annotation>
        <xs:documentation>
          <xhtml:p ism:classification="U" ism:ownerProducer="USA"> Point of Contact. </xhtml:p>
        </xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:simpleContent>
          <xs:extension base="xs:string">
            <xs:attributeGroup ref="ism:SecurityAttributesGroup"/>
          </xs:extension>
        </xs:simpleContent>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
  <xs:attributeGroup ref="ism:SecurityAttributesGroup"/>
</xs:complexType>
<xs:complexType name="RecipientListType">
  <xs:sequence>
    <xs:element ref="its:Client" maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:attributeGroup ref="ism:SecurityAttributesGroup"/>
</xs:complexType>

<xs:simpleType name="dateTime">
  <xs:annotation>
    <xs:documentation>
      <xhtml:p ism:classification="U" ism:ownerProducer="USA">Restricts the schema dateTime type to force existence of timezone.</xhtml:p>
    </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:dateTime">
    <xs:pattern value="\-?[0-9]{4}-[0-9]{2}-[0-9]{2}T[0-9]{2}:[0-9]{2}:[0-9]{2}(\.[0-9]+)?(Z|[\-\\+][0-9]{2}:[0-9]{2})"/>
  </xs:restriction>
</xs:simpleType>

<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>2015-FEB<td>2018-APR</xhtml:td>

```

```
<xhtml:td>2018-03-09</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 2015-FEBr2018-APR release.
      The existing change logs will only serve as legacy information.
      For changes to schema as of and after 2015-FEBr2018-APR, reference the change history in the DES.</xhtml:li>
    </xhtml:ul>
  </xhtml:td>
</xhtml:tr>
<xhtml:tr>
  <xhtml:td>2015-FEB</xhtml:td>
  <xhtml:td>2015-02-28</xhtml:td>
  <xhtml:td>ODNI/IC CIO/IAD</xhtml:td>
  <xhtml:td>
    <xhtml:ul>
      <xhtml:li ism:ownerProducer="USA" ism:classification="U">
        Added "ACINT" to ENUM ObjectType</xhtml:li>
      </xhtml:ul>
    </xhtml:td>
  </xhtml:tr>
<xhtml:tr>
  <xhtml:td>2015-FEB</xhtml:td>
  <xhtml:td>2015-02-28</xhtml:td>
  <xhtml:td>ODNI/IC CIO/IAD</xhtml:td>
  <xhtml:td>
    <xhtml:ul>
      <xhtml:li ism:ownerProducer="USA" ism:classification="U">
        Updates to replace IC-ID with version 4 UUID</xhtml:li>
      </xhtml:ul>
    </xhtml:td>
  </xhtml:tr>
<xhtml:tr>
  <xhtml:td>1</xhtml:td>
  <xhtml:td>2012-11-14</xhtml:td>
  <xhtml:td>ODNI/OCIO/ICEA</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"
            attributeFormDefault="qualified"
            ism:DESVersion="202111"
            ism:createDate="2011-09-19"
            ism:resourceElement="true"
            ism:classification="U"
            ism:ISMATCESVersion="202205"
            ism:compliesWith="USGov USIC"
            ism:ownerProducer="USA"
            version="201502.201807"
            elementFormDefault="qualified"
            targetNamespace="urn:schema:guide:schema:its"
            xml:lang="en">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:h1 ism:ownerProducer="USA" ism:classification="U">Intelligence Community
Technical Specification XML Data Encoding Specification for Information Transport
Service Messaging Service (ITS-MS.XML) SchemaGuide</xhtml:h1>
    </xsd:documentation>

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

    </xhtml:p>
    </xsd:documentation>
    <xsd:documentation>
      <xhtml:h2 ism:ownerProducer="USA" ism:classification="U">Description</xhtml:h2>
      <xhtml:p ism:ownerProducer="USA" ism:classification="U"> W3C XML Schema used to
facilitate generation of the SchemaGuide for the XML Data Encoding Specification for Information Transport
Service Messaging Service (ITS-MS.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/ITS-MS/DesItsMsXml.pdf">XML Data Encoding Specification
for Information Transport Service Messaging Service</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 ITS-MS.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 ITS-MS.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> or
<xhtml:a href="IC-TDF_xsd_Element_TrustedDataCollection.html#TrustedDataCollection">tdf:TrustedDataCollection</xhtml:a>
      </xhtml:p>
    </xhtml:ul>
      <xhtml:li ism:ownerProducer="USA" ism:classification="U">has an assertion
with an <xhtml:a href="ITS-MS_xsd_Element_its_Its.html#Its">its:Its</xhtml:a> element.
    </xhtml:li>
    </xhtml:ul>
  </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 -->

<!-- ITS-MS schema because that is the main spec -->

<xsd:import namespace="urn:us:gov:ic:its" schemaLocation="ITS-MS.xsd"/>

    <!-- TDF schema because an ITS-MS goes inside a TDO -->

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

</xsd:schema>
```