



# **Guide to Schemas for MNT**

---

## **MNT 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 - Issue.xsd .....	2
2.2 - Region.xsd .....	5
2.3 - SchemaGuideSchema.xsd .....	8

**Chapter 1 - Introduction**

**1.1 - Purpose**

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

Chapter 2 - Schema Files

2.1 - Issue.xsd

```
<xs:schema 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:tax="urn:us:gov:ic:taxonomy:common"
            xmlns:pm="urn:us:gov:ic:pm"
            xmlns:issue="urn:us:gov:ic:taxonomy:mnt:issue"
            xmlns:issuecve="urn:us:gov:ic:cvenum:mn:issue"
            elementFormDefault="qualified"
            targetNamespace="urn:us:gov:ic:taxonomy:mnt:issue"
            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="202211">

    <xs:annotation>
        <xs:documentation>
            <xhtml:h1 ism:ownerProducer="USA" ism:classification="U">Iregcve:CVEEnumMNRegionntelligence Community Technical Specification
            Taxonomy Encoding Specification for Mission Need (MNT.XML)
            Issue Taxonomy schema</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 mapping subjects to issues in the XML Taxonomy Encoding Specification
                for Mission Need.
            </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">
                No implementation notes at this time.
            </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:arh" schemaLocation="../../ISM/IC-ARH.xsd"/>
<xs:import namespace="urn:us:gov:ic:ism" schemaLocation="../../ISM/IC-ISM.xsd"/>
<xs:import namespace="urn:us:gov:ic:taxonomy:common"
  schemaLocation="../../Taxonomy/Taxonomy.xsd"/>

<xs:import namespace="urn:us:gov:ic:pm" schemaLocation="../../PM/PM.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:mn:issue"
  schemaLocation="../../MN/CVEGenerated/CVEnumMNIssue.xsd"/>

<xs:element name="Issues">
  <xs:annotation>
    <xs:documentation>
      <xhtml:p ism:classification="U" ism:ownerProducer="USA">This element holds the list of issues and their mappings.</xhtml:p>
    </xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="arh:Security"/>
      <xs:element ref="tax:IRM"/>
      <xs:element ref="issue:Issue" maxOccurs="unbounded" minOccurs="1"/>
    </xs:sequence>
    <xs:attribute ref="issue:TESVersion" use="required"/>
  </xs:complexType>
</xs:element>

<xs:element name="Issue">
  <xs:annotation>
    <xs:documentation>
      <xhtml:p ism:classification="U" ism:ownerProducer="USA">This element groups captures the subjects that are associated with
the issue specified.</xhtml:p>
    </xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="issue:IssueToken"/>
      <xs:element name="Notes" type="ism:LongStringWithSecurityType" minOccurs="0"/>
      <xs:element ref="issue:Membership"/>
    </xs:sequence>

    <xs:attributeGroup ref="ism:SecurityAttributesGroup"/>
  </xs:complexType>
</xs:element>

<xs:element name="IssueToken">
  <xs:annotation>
    <xs:documentation>
      <xhtml:p ism:classification="U" ism:ownerProducer="USA">The Issue token for which this grouping relates.</xhtml:p>
    </xs:documentation>
  </xs:annotation>
  <xs:complexType>
```

```

        <xs:simpleContent>
          <xs:extension base="issuecve:CVEEnumMNIssue">
            <xs:attributeGroup ref="ism:SecurityAttributesGroup"/>
          </xs:extension>
        </xs:simpleContent>
      </xs:complexType>
    </xs:element>

    <xs:element name="Membership">
      <xs:annotation>
        <xs:documentation>
          <xhtml:p ism:classification="U" ism:ownerProducer="USA">A subject that has membership in or association with the issue.</xhtml:p>
        </xs:documentation>
      </xs:annotation>
      <xs:complexType>
        <xs:choice>
          <xs:sequence>
            <xs:element maxOccurs="unbounded"
              ref="pm:ProductionMetricsSubject"
              minOccurs="1"/>
          </xs:sequence>
          <xs:element name="MembershipSupressed" minOccurs="1" maxOccurs="1"/>
        </xs:choice>

        <xs:attribute name="dateLastVerified" use="required" type="xs:date"/>
        <xs:attributeGroup ref="ism:SecurityAttributesGroup"/>
      </xs:complexType>
    </xs:element>

    <xs:attribute name="TESVersion">
      <xs:annotation>
        <xs:documentation>
          <xhtml:p ism:classification="U" ism:ownerProducer="USA">The version of this specification.</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:schema>
```

2.2 - Region.xsd

```
<xs:schema 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:tax="urn:us:gov:ic:taxonomy:common"
            xmlns:ismcatrelto="urn:us:gov:ic:cenum:ismcat:relto"
            xmlns:region="urn:us:gov:ic:taxonomy:mnt:region"
            xmlns:regcve="urn:us:gov:ic:cenum:mn:region"
            elementFormDefault="qualified"
            targetNamespace="urn:us:gov:ic:taxonomy:mnt:region"
            ism:compliesWith="USGov USIC"
            ism:resourceElement="true"
            ism:createDate="2019-09-18"
            ism:DESVersion="202111"
            ism:ISMCACTCESVersion="202205"
            ism:classification="U"
            ism:ownerProducer="USA"
            version="202211">

    <xs:annotation>
        <xs:documentation>
            <xhtml:h1 ism:ownerProducer="USA" ism:classification="U">Intelligence Community Technical Specification
Taxonomy Encoding Specification for Mission Need (MNT.XML)
Region Taxonomy schema</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 mapping countries to regions in the XML Taxonomy Encoding Specification
for Mission Need.
        </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">
No implementation notes at this time.
        </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:arh" schemaLocation="../../ISM/IC-ARH.xsd"/>
<xs:import namespace="urn:us:gov:ic:ism" schemaLocation="../../ISM/IC-ISM.xsd"/>
<xs:import namespace="urn:us:gov:ic:taxonomy:common"
  schemaLocation="../../Taxonomy/Taxonomy.xsd"/>

<xs:import namespace="urn:us:gov:ic:cvenum:ismcat:relto"
  schemaLocation="../../ISM/CVEGenerated/CVEnumISMCARelTo.xsd"/>
<xs:import namespace="urn:us:gov:ic:cvenum:mn:region"
  schemaLocation="../../MN/CVEGenerated/CVEnumMNRegion.xsd"/>

<xs:element name="Regions">
  <xs:annotation>
    <xs:documentation>
      <xhtml:p ism:classification="U" ism:ownerProducer="USA">This element holds the list of regions and their mappings.</xhtml:p>
    </xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="arh:Security"/>
      <xs:element ref="tax:IRM"/>
      <xs:element ref="region:Region" maxOccurs="unbounded" minOccurs="1"/>
    </xs:sequence>
    <xs:attribute ref="region:TESVersion" use="required"/>
  </xs:complexType>
</xs:element>

<xs:element name="Region">
  <xs:annotation>
    <xs:documentation>
      <xhtml:p ism:classification="U" ism:ownerProducer="USA">This element groups captures the countries that are associated with
the region specified.</xhtml:p>
    </xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="region:RegionToken"/>
      <xs:element name="Notes" type="ism:LongStringWithSecurityType" minOccurs="0"/>
      <xs:element ref="region:Membership"/>
    </xs:sequence>

    <xs:attributeGroup ref="ism:SecurityAttributesGroup"/>
  </xs:complexType>
</xs:element>

<xs:element name="RegionToken">
  <xs:annotation>
    <xs:documentation>
      <xhtml:p ism:classification="U" ism:ownerProducer="USA">The Region token for which this grouping relates.</xhtml:p>
    </xs:documentation>
  </xs:annotation>
  <xs:complexType>
    <xs:simpleContent>
      <xs:extension base="regcve:CVEEnumMNRegion"/>
    </xs:simpleContent>
  </xs:complexType>
</xs:element>
```

```

        <xs:attributeGroup ref="ism:SecurityAttributesGroup"/>
    </xs:extension>
</xs:simpleContent>
</xs:complexType>
</xs:element>

<xs:element name="Membership">
    <xs:annotation>
        <xs:documentation>
            <xhtml:p ism:classification="U" ism:ownerProducer="USA">A country that has membership in or association with the region.</xhtml:p>
        </xs:documentation>
    </xs:annotation>
    <xs:complexType>
        <xs:choice>
            <xs:sequence>
                <xs:element maxOccurs="unbounded" ref="region:Country" minOccurs="1"/>
            </xs:sequence>
            <xs:element name="MembershipSupressed" minOccurs="1" maxOccurs="1"/>
        </xs:choice>

        <xs:attribute name="dateLastVerified" use="required" type="xs:date"/>
        <xs:attributeGroup ref="ism:SecurityAttributesGroup"/>
    </xs:complexType>
</xs:element>
<xs:element name="Country" type="ismcatrelto:CVEEnumISMCARelTo"/>

<xs:attribute name="TESVersion">
    <xs:annotation>
        <xs:documentation>
            <xhtml:p ism:classification="U" ism:ownerProducer="USA">The version of this specification.</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:schema>
```

2.3 - SchemaGuideSchema.xsd

```
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
            xmlns:xhtml="http://www.w3.org/1999/xhtml-StopBrowserRendering"
            xmlns:issue="urn:us:gov:ic:taxonomy:mnt:issue"
            xmlns:region="urn:us:gov:ic:taxonomy:mnt:region"
            attributeFormDefault="qualified"
            ism:compliesWith="USGov USIC"
            ism:resourceElement="true"
            ism:createDate="2019-09-18"
            ism:DESVersion="202111"
            ism:ISMCATCESVersion="202205"
            ism:classification="U"
            ism:ownerProducer="USA"
            version="202211"
            elementFormDefault="qualified"
            targetNamespace="urn:schema:guide:schema:pubs"
            xml:lang="en">
  <xsd:annotation>
    <xsd:documentation>
      <xhtml:h1 ism:ownerProducer="USA" ism:classification="U">Intelligence Community
Technical Specification XML Taxonomy Encoding Specification for Mission Need (MNT.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 Taxonomy Encoding Specification for
Mission Need (MNT.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 Taxonomy Encoding Specification (TES).
Please see the document titled <xhtml:i>
      <xhtml:a href="../../Documents/MNT/TesMNTXml.pdf">XML Taxonomy Encoding Specification for
Mission Need</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 TES 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 TES 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 MNT.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">An MNT.XML instance is an
instance starting with either the Issues or Regions root elements:</xhtml:p>
  <xhtml:ul>
    <xhtml:p ism:ownerProducer="USA" ism:classification="U">A <xhtml:a href="Issue_xsd_Element_issue_Issues.html#Issues">issue:Issues</xhtml:a>
    </xhtml:p>
    <xhtml:p ism:ownerProducer="USA" ism:classification="U">A <xhtml:a href="Region_xsd_Element_region_Regions.html#Regions">region:Regions</xhtml:a>
    </xhtml:p>
  </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 -->

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

<xsd:import namespace="urn:us:gov:ic:taxonomy:mnt:issue" schemaLocation="Issue.xsd"/>

  <!-- TDF schema because PUBS goes inside a TDO now (TDF schema imports its dependencies) -->

<!-- IRM SchemaGuideSchema because PUBS requires an IRM.
The main IRM schema does not import its dependent schemas, but the IRM SchemaGuideSchema
does import those dependencies -->

<!-- Currently, the PUBS schema imports the IRM schema (CG: I think this might be incorrect, though) -->

<xsd:import namespace="urn:us:gov:ic:taxonomy:mnt:region"
            schemaLocation="Region.xsd"/>
</xsd:schema>
```