Guide to Schemas for MN

MN Schema Guide

Version 2021-NOV

December 1, 2022

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Chapter 1 - Introduction

1.1 - Purpose

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

Chapter 2 - Schema Files

2.1 - MN.xsd

```xml
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
                xmlns:fineaccesscontrol="urn:us:gov:ic:mn"
                xmlns:mnregion="urn:us:gov:ic:cvenum:mn:region"
                xmlns:mnissue="urn:us:gov:ic:cvenum:mn:issue"
                xmlns:xhtml="http://www.w3.org/1999/xhtml-StopBrowserRendering"
                targetNamespace="urn:us:gov:ic:mn"
                attributeFormDefault="qualified"
                elementFormDefault="qualified"
                xml:lang="en"
                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="202111">

        <xs:annotation>
            <xs:documentation>
                <xhtml:h1 ism:ownerProducer="USA" ism:classification="U">Intelligence Community
Technical Specification CVE Encoding Specification for Mission Need
(MN.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 Schema for the CVE Encoding
Specification for Mission Need (MN.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/MN/CesMNXml.pdf">CVE 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">This schema and its components,
as well as other parts of the CES, may be overridden for localized implementations.
Permission to use, copy, modify and distribute this Schema and the other parts of
```

```xml
                    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 MN.CES.</xhtml:p>

                                <xhtml:p ism:ownerProducer="USA" ism:classification="U">Please direct all questions, bug
                    reports, and 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">MN does not have a root node.
                    This CES provides controlled vocabularies that map directly to regions and issues
                    used in Mission Need Profiles for use in instance documents, as entity attributes,
                    and by systems making access control decisions.</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:mn:region"
                        schemaLocation="./CVEGenerated/CVEnumMNRegion.xsd"/>
                <xs:import namespace="urn:us:gov:ic:cvenum:mn:issue"
                        schemaLocation="./CVEGenerated/CVEnumMNIssue.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
                    CES</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>
```

```xml
<xs:element name="Region" type="mnregion:CVEnumMNRegion">
    <xs:annotation>
        <xs:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U">An element limited to
allowable Region.</xhtml:p>
        </xs:documentation>
    </xs:annotation>
</xs:element>

<xs:attribute name="region" type="mnregion:CVEnumMNRegion">
    <xs:annotation>
        <xs:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U">An attribute limited to
allowable Region.</xhtml:p>
        </xs:documentation>
    </xs:annotation>
</xs:attribute>

<xs:element name="Issue" type="mnissue:CVEnumMNIssue">
    <xs:annotation>
        <xs:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U">An element limited to
allowable Issue.</xhtml:p>
        </xs:documentation>
    </xs:annotation>
</xs:element>

<xs:attribute name="issue" type="mnissue:CVEnumMNIssue">
    <xs:annotation>
        <xs:documentation xml:lang="en">
            <xhtml:p ism:ownerProducer="USA" ism:classification="U">An attribute limited to
allowable Issue.</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>2017-MAY</xhtml:td>
                    <xhtml:td>2017-05-12</xhtml:td>
                    <xhtml:td>ODNI/IC CIO/IAD</xhtml:td>
```

```xml
                                        <xhtml:td> The schema change logs will no longer be maintained as of the
                    2017-MAY release. The existing change logs will only serve as legacy
                    information. For changes to schema as of and after 2017-MAY, reference
                    the change history in the CES. </xhtml:td>
                                            </xhtml:tr>
                                            <xhtml:tr>
                                                <xhtml:td>2015-AUG</xhtml:td>
                                                <xhtml:td>2015-07-04</xhtml:td>
                                                <xhtml:td>ODNI/OCIO/ICEA</xhtml:td>
                                                <xhtml:td>Initial release of this module</xhtml:td>
                                            </xhtml:tr>
                                    </xhtml:tbody>
                                </xhtml:table>
                            </xs:documentation>
                    </xs:annotation>
            </xs:schema>
```