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# **Guide to Schematron Rules and Patterns**

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## **ISMCAT Schematron Guide**

### **Version 1**

6 September 2013

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## Chapter 1 - Introduction

### 1.1 - Purpose

(U) The following documentation is informative. The actual Schematron files are the normative record. This documentation is generated from the Schematron files via XSLT it may be missing some file or pieces of a file but whatever is here other than titles came from the original file.

(U) It is envisioned that this will be a useful resource to search and read but for questions and debates the source files should be consulted.

(U) Rules identifiers are all of the format ISMCAT-ID-XXXXX, with rule files named ISMCAT\_ID\_XXXXX.sch. Any other heading indicates a supporting file that may strongly influence a rule but is not actually a numbered rule.

## Chapter 2 - Rules

All of the numbered Rules for ISMCAT are listed in this section. These rules may depend strongly on patterns defined in the Abstract Patterns section or on variables defined in the Schematron Schema section.

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## 2.1 - `./Rules/GeneralConstraints/ISMCAT_ID_00001.sch`

Rule Description: ISMCAT-ID-00001 [ISMCAT-ID-00001][Error] ISM CAT CESVersion attributes must be specified as version 1.

Code Description: Ensure that all instances of the @ism:ISMCATCESVersion have a value of 1.

Schematron Code:

```
<?ICEA pattern?><!-- Notices - Distribution Notice:
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-->
<sch:pattern id="ISMCAT-ID-00001">

    <sch:rule context="*[@ism:ISMCATCESVersion]">
        <sch:assert test="@ism:ISMCATCESVersion='1'"
flag="error">
            [ISMCAT-ID-00001][Error] ISMCAT CESVersion attributes must be
specified as version 1.
        </sch:assert>
    </sch:rule>
</sch:pattern>
```

---

## Chapter 3 - Abstract Patterns

There are no Abstract Patterns currently defined for ISMCAT.

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## Chapter 4 - Schematron Schema

The top level Schematron file for ISMCAT is in this section. This file imports all of the others and also defines many global variables they are all dependent on.



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## 4.1 - ./ISMCAT\_XML.sch

Rule Description:

Code Description:

Schematron Code:

```

<?ICEA master?><!-- UNCLASSIFIED --><!-- Notices - Distribution Notice:
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    to Federal, State, Local, Tribal, and Foreign Partners and
associated contractors. Approval for
    any further distribution must be coordinated via the Intelligence
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    Officer, Mission Engagement Division at standardssupport@dni.gov--
><!-- WARNING:
    Once compiled into an XSLT the result will
    be the aggregate classification of all the CVES
    and included .sch files
-->
<sch:schema xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
queryBinding="xslt2">
    <sch:ns uri="urn:us:gov:ic:ism" prefix="ism"/>
    <sch:ns uri="urn:us:gov:ic:edh:xsl:util" prefix="util"/>
    <sch:ns uri="http://www.w3.org/2001/XMLSchema" prefix="xs"/>

    <!--*****-->
<!-- (U) ISMCAT ID Rules -->
<!--*****-->

<!--(U) GeneralConstraints-->
    <sch:include href="./Rules/GeneralConstraints/ISMCAT_ID_00001.sch"/>
</sch:schema>

```

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## Chapter 5 - Removed Rules

There are no rules that have been removed for ISMCAT.