

NTK Schematron Rules

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.

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.

Rules are all of the format NTK-ID-XXXXX any other heading is a supporting file that may strongly influence a rule but is not actually a numbered rule.

FileName:./NTK_XML.sch

Schematron Code:

```
<?xml version="1.0" encoding="UTF-8"?>
<sch:schema xmlns:sch="http://purl.oclc.org/dsdl/schematron" queryBinding="xslt2">
<sch:ns uri="urn:us:gov:ic:pubs" prefix="pubs"/>
<sch:ns uri="urn:us:gov:ic:cve:v1" prefix="cve"/>
<sch:ns uri="http://www.w3.org/1999/xlink" prefix="xlink"/>
<sch:ns uri="urn:us:gov:ic:ism" prefix="ism"/>
<sch:ns uri="urn:us:gov:ic:mat" prefix="mat"/>
<sch:ns uri="urn:us:gov:ic:ntk" prefix="ntk"/>
<sch:ns uri="urn:us:gov:ic:irm" prefix="irm"/>
<sch:ns uri="http://www.w3.org/2001/XMLSchema" prefix="xs"/>

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

<!--(U) generalConstraints-->
<sch:include href="./Rules/generalConstraints/NTK_ID_00002.sch"/>

<!--(U) globalConstraints-->
<sch:include href="./Rules/globalConstraints/NTK_ID_00004.sch"/>
</sch:schema>
```

Rule: NTK-ID-00002

FileName:../Rules/generalConstraints/NTK_ID_00002.sch

Rule Description:

[MAT-ID-00002][Error] ntk:Access must contain at least one of ntk:AccessIndividualList, ntk:AccessGroupList, ntk:AccessProfileList.

Code Description:

We make sure that either ntk:AccessIndividualList, ntk:AccessGroupList, or ntk:AccessProfileList exist as child elements of ntk:Access.

Schematron Code:

```
<?xml version="1.0" encoding="UTF-8"?>
<sch:pattern xmlns:sch="http://purl.oclc.org/dsdl/schematron" id="NTK-ID-00002">

<sch:rule context="ntk:Access">
<sch:assert id="NTK-00002"
test="ntk:AccessIndividualList or ntk:AccessGroupList or ntk:AccessProfileList"
flag="error">
[NTK-ID-00002][Error] All NTK.XML documents must have least one of
ntk:AccessIndividualList,
ntk:AccessGroupList, ntk:AccessProfileList.
</sch:assert>
</sch:rule>
</sch:pattern>
```

Rule: NTK-ID-00004

FileName:./Rules/globalConstraints/NTK_ID_00004.sch

Rule Description:

[NTK-ID-00004][Error] Every attribute in the document must be specified with a non-whitespace value.

Code Description:

For each element with at least one attribute specified, we normalize the space of the value of each attribute and make sure that the resulting string has a length greater than zero, which indicates non-whitespace content.

Schematron Code:

```
<?xml version="1.0" encoding="UTF-8"?>
<sch:pattern xmlns:sch="http://purl.oclc.org/dsdl/schematron" id="NTK-ID-00004">

<sch:rule context="//*[@*]">
<sch:assert id="NTK-00004"
test="every $attribute in ./@* satisfies string-length(normalize-
space(string($attribute))) > 0"
flag="error">
[NTK-ID-00004][Error] Every attribute in the document must be specified with a non-
whitespace value.
</sch:assert>
</sch:rule>
</sch:pattern>
```

For any questions or comments regarding the NTK rules, contact us by email at datastandardssupport@ugov.gov.