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[SOLVED] XML/XSD Schemavalidation of an OOXML document

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This guide was created as an overview of the Linux Operating System, geared toward new users as an exploration tour and getting started exercises at the end of each chapter. For more advanced trainees it can be a desktop reference, and a collection of the base knowledge needed with system and network administration. This book contains many real life examples derived from the author's experience as a Linux system administrator, trainer and consultant. They hope these examples will help you to get a better understanding of the Linux system and that you can try out things on your own.

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Post Reply

03-16-2019, 09:06 AM

Michael Uplawski
Member

Registered: Dec 2015
Location: Outside, most of the time.
Posts: 830
Blog Entries: [25](#)

Rep:

XML/XSD Schemavalidation of an OOXML document

Good afternoon.

I am generating programmatically OOXML-documents for routine-use. As my knowledge of OOXML bases entirely on online-resources and would like to validate the code in my template files (document.xml, header.xml) and styles (styles.xml) against the referenced definitions, which are for now only these three:

- xmlns:w="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
- xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"
- xmlns:wpc="http://schemas.microsoft.com/office/word/2010/wordprocessingCanvas"

My knowledge of **xmllint** is insufficient and online-validators appear to validate each of my documents as valid, even where I close before one of the elements that it must include. The only thing that they achieve is assure the "well-formedness" of the XML.

Can you point me at a resource which explains how this type of document is best validated against the named schemas? Or where the xsd for each schema, if I want to feed them to xmllint?

Amongst others, I have seen:

1. <http://www.datypic.com/sc/ooxml/ss.html> gives the same kind of overview that I find elsewhere, but no XSD-code.
2. <https://www.ecma-international.org/p...s/Ecma-376.htm> - I do not know what to download, here, an attempt to validate against "ECMA-376 5th edition Part 1" fails with the following errors:

Code:

```
user@machine:~$ xmllint --schema wml.xsd styles.xml
shared-math.xsd:154: element attribute: Schemas parser error : attribute use (unknown), attribute 'rel'
wml.xsd:1663: element attribute: Schemas parser error : attribute use (unknown), attribute 'ref': The
WXS schema wml.xsd failed to compile

(...)
```

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Last edited by Michael Uplawski; 03-16-2019 at 09:34 AM. Reason: three schemas, not four.

03-17-2019, 12:37 PM

NevemTeve
Senior Member

Registered: Oct 2011
Location: Budapest
Distribution:
Debian/GNU/Linux, AIX
Posts: 3,979

Rep: 

Could you please give an example xml (or a link to it)?

03-17-2019, 02:10 PM


Michael Uplawski
Member

Registered: Dec 2015
Location: Outside, most of the
time.
Posts: 830

Original Poster
Blog Entries: [25](#)

Rep: 

Quote:

Originally Posted by **NevemTeve** 
Could you please give an example xml (or a link to it)?

Here is an [archive](#) with authentic "templates", i.e. a document.xml which is completed during the execution of my routine, a styles and a _rels directory, which links header.xml and document.xml.

I do not know if that is the kind of example you wish to see.

03-18-2019, 01:22 AM

NevemTeve
Senior Member

Registered: Oct 2011
Location: Budapest
Distribution:
Debian/GNU/Linux, AIX
Posts: 3,979

Rep: 

Ok, let's try document.xml

Code:

```
<?xml version="2.0" encoding="utf-8" standalone="yes"?>
<w:document xmlns:w="http://schemas.openxmlformats.org/wordprocessingml/2006/main">
  <w:body>
    <w:type w:val="continuous" />
    <w:sectPr>
      <w:headerReference w:type="default" r:id="rId1" />
    ...
```

Well, here is the first problem reported by xmllint:

Code:

```
document.xml:1: parser error : Unsupported version '2.0'
<?xml version="2.0" encoding="utf-8" standalone="yes"?>
```

the second one:

Code:

```
document.xml:6: namespace error : Namespace prefix r for id on headerReference is not defined
  <w:headerReference w:type="default" r:id="rId1" />
```

The trivial fix would be this:

Code:

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<w:document
  xmlns:w="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
  xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships">
  <w:body>
    ...
```



But that's not enough: as xmllint accepts only one schema, one should create an xml-catalog. I'll try to give more details.

PS: I found the xsd files here: https://jar-download.com/cache_jars/.../jar_files.zip

Last edited by NeveTeve; 03-18-2019 at 02:19 AM.

1 members four

03-18-2019, 06:56 AM

Michael Uplawski

Member

Registered: Dec 2015

Location: Outside, most of the time.

Posts: 830

Original Poster

Blog Entries: 25

Rep: 000000

Quote:

Originally Posted by **NeveTeve**

But that's not enough: as xmllint accepts only one schema, one should create an xml-catalog. I'll try to give more details.

PS: I found the xsd files here: https://jar-download.com/cache_jars/.../jar_files.zip

Thank you for your time and effort. I was impatient to read your response.

Are you accustomed to this kind of problem or how did you make a connection to jar-download.com? Even if XML and Java are close, hope for a generally applicable procedure and would not have thought of searching for a jar-archive, of all choices... called zip, if it

Last edited by Michael Uplawski; 03-18-2019 at 07:11 AM.

03-18-2019, 07:58 AM

NeveTeve

Senior Member

Registered: Oct 2011

Location: Budapest

Distribution:

Debian/GNU/Linux, AIX

Posts: 3,979

Rep: 0000000000

Well, I'd suggest this:

As root

1. If you don't have file `/usr/local/etc/xml/catalog`, create it:

Code:

```
$ mkdir -p /usr/local/etc/xml
$ cat >/usr/local/etc/xml/catalog <<DONE
<?xml version="1.0"?>
<!DOCTYPE catalog PUBLIC "-//OASIS//DTD Entity Resolution XML Catalog V1.0//EN" "http://www.oasis-open.org/
<catalog xmlns="urn:oasis:names:tc:entity:xmlns:xml:catalog">
  <nextCatalog catalog="file:///etc/xml/catalog"/>
</catalog>
DONE
```

2. If you don't have a line in this file referring to `name="http://www.w3.org/XML/1998/namespace"`, then insert line like this (before line):

Code:

```
<uri name="http://www.w3.org/XML/1998/namespace" uri="file:///usr/local/etc/xml/xml_2009_01.xsd"/>
```

Also actually download this file:

Code:

```
wget -O /usr/local/etc/xml/xml_2009_01.xsd http://www.w3.org/2009/01/xml.xsd
```

Switch back to normal user.

3. Put the OOXML-xsd files into a sub-directory of your work-dir, eg `ooxml_xsd`.

4. Some modifications are required to let xmllint work:

4.1. `wml.xsd` -- missing `schemaLocation`

Code:

```
- <xsd:import id="xml" namespace="http://www.w3.org/XML/1998/namespace" />
+ <xsd:import id="xml" namespace="http://www.w3.org/XML/1998/namespace" schemaLocation="http://www.w3.org/
```

4.2. `dml-wordprocessingDrawing.xsd` -- duplicate import for the same namespace

Code:

```
- <xsd:import schemaLocation="dml-graphicalObject.xsd" namespace="http://schemas.openxmlformats.org/drawingml/2006/main" />
- <xsd:import schemaLocation="dml-documentProperties.xsd" namespace="http://schemas.openxmlformats.org/drawingml/2006/main" />
+ <xsd:import schemaLocation="dml-wordprocessingDrawing_import.xsd" namespace="http://schemas.openxmlformats.org/drawingml/2006/main" />
```

Then create this `dml-wordprocessingDrawing_import.xsd` file:

Code:

```
<?xml version="1.0" encoding="utf-8"?>
<xsd:schema targetNamespace="http://schemas.openxmlformats.org/drawingml/2006/main"
  elementFormDefault="qualified"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <xsd:include schemaLocation="dml-graphicalObject.xsd"/>
  <xsd:include schemaLocation="dml-documentProperties.xsd"/>
</xsd:schema>
```

Now you can invoke xmllint:

Code:

```
$ export XML_CATALOG_FILES=/usr/local/etc/xml/catalog
$ xmllint -noout -debugnt -schema ooxml_xsd/wml.xsd document.xml

new input from file: ooxml_xsd/wml.xsd
new input from file: ooxml_xsd/shared-customXmlSchemaProperties.xsd
new input from file: ooxml_xsd/shared-math.xsd
new input from file: ooxml_xsd/dml-wordprocessingDrawing.xsd
new input from file: ooxml_xsd/dml-wordprocessingDrawing_import.xsd
new input from file: ooxml_xsd/dml-graphicalObject.xsd
new input from file: ooxml_xsd/dml-documentProperties.xsd
new input from file: ooxml_xsd/dml-baseTypes.xsd
```

```

new input from file: ooxml_xsd/shared-relationshipReference.xsd
new input from file: ooxml_xsd/dml-shapeGeometry.xsd
new input from file: file:///usr/local/etc/xml/xml_2009_01.xsd
new input from file: document.xml
document.xml:6: element type: Schemas validity error :
Element '{http://schemas.openxmlformats.org/wordprocessingml/2006/main}type':
This element is not expected.
Expected is ( {http://schemas.openxmlformats.org/wordprocessingml/2006/main}sectPr ).
document.xml fails to validate
DOCUMENT
No entities in internal subset
No entities in external subset

```

Last edited by NevemTeve; 03-18-2019 at 08:04 AM.

2 members four

03-20-2019, 05:34 PM

Michael Uplawski
Member

Registered: Dec 2015
Location: Outside, most of the
time.
Posts: 830

Original Poster
Blog Entries: [25](#)

Rep: 

Thank you so much!

I validate.

And promptly, my "templates" must be revised as I have skipped some namespaces, at least for the attributes of the `<w:headerR`
now I was lucky that the text-processor, which reads my final documents, corrects errors upon saving and my requirements were s

It is, however, surprising that the validation needs so much preparation.

Last edited by Michael Uplawski; 03-23-2019 at 04:20 AM. Reason: upon

1 members four

07-28-2019, 06:30 PM

Ricky Rocker
LQ Newbie

Registered: Jul 2019
Posts: 3

Rep: 



Hi @nevemTeve

I "think" I've got everything right (I've modified your approach slightly by placing the xml_2009_01.xsd file in the same folder as t
testing hopefully without the requirement for the catalog)

and I'm getting the following...

Code:

```

root@dev:/Development # xmllint --schema /Development/OfficeOpenXML-XMLSchema-Strict/wml.xsd testdoc.xml --
new input from file: /Development/OfficeOpenXML-XMLSchema-Strict/wml.xsd
new input from file: /Development/OfficeOpenXML-XMLSchema-Strict/dml-wordprocessingDrawing.xsd
new input from file: /Development/OfficeOpenXML-XMLSchema-Strict/dml-main.xsd
new input from file: /Development/OfficeOpenXML-XMLSchema-Strict/shared-relationshipReference.xsd
new input from file: /Development/OfficeOpenXML-XMLSchema-Strict/shared-commonSimpleTypes.xsd
new input from file: /Development/OfficeOpenXML-XMLSchema-Strict/dml-diagram.xsd
new input from file: /Development/OfficeOpenXML-XMLSchema-Strict/dml-chart.xsd
new input from file: /Development/OfficeOpenXML-XMLSchema-Strict/dml-chartDrawing.xsd
new input from file: /Development/OfficeOpenXML-XMLSchema-Strict/dml-picture.xsd
new input from file: /Development/OfficeOpenXML-XMLSchema-Strict/dml-lockedCanvas.xsd
new input from file: /Development/OfficeOpenXML-XMLSchema-Strict/shared-math.xsd
new input from file: /Development/OfficeOpenXML-XMLSchema-Strict/xml_2009_01.xsd
new input from file: /Development/OfficeOpenXML-XMLSchema-Strict/shared-customXmlSchemaProperties.xsd
new input from file: testdoc.xml
testdoc.xml:1: element document: Schemas validity error : Element '{http://schemas.openxmlformats.org/wordp
testdoc.xml fails to validate
DOCUMENT
No entities in internal subset
No entities in external subset
root@dev:/Development #

```

...so the schemas all seem happy, but for some reason testdoc.xml with the following w:document node is failing as above (XMLsp

Code:

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<w:document xmlns:w="http://schemas.openxmlformats.org/wordprocessingml/2006/main"
xmlns:wpc="http://schemas.openxmlformats.org/office/word/2010/wordprocessingCanvas"
xmlns:mc="http://schemas.openxmlformats.org/markup-compatibility/2006"
xmlns:o="urn:schemas-microsoft-com:office:office"
xmlns:r="http://schemas.openxmlformats.org/officeDocument/2006/relationships"
xmlns:m="http://schemas.openxmlformats.org/officeDocument/2006/math"
xmlns:v="urn:schemas-microsoft-com:vml"
xmlns:wp14="http://schemas.openxmlformats.org/office/word/2010/wordprocessingDrawing"
xmlns:wp="http://schemas.openxmlformats.org/drawingml/2006/wordprocessingDrawing"
xmlns:w10="urn:schemas-microsoft-com:office:word"
xmlns:w14="http://schemas.openxmlformats.org/office/word/2010/wordml"
xmlns:w15="http://schemas.openxmlformats.org/office/word/2012/wordml"
xmlns:wpg="http://schemas.openxmlformats.org/office/word/2010/wordprocessingGroup"
xmlns:wpi="http://schemas.openxmlformats.org/office/word/2010/wordprocessingInk"
xmlns:wne="http://schemas.openxmlformats.org/office/word/2006/wordml"
xmlns:wps="http://schemas.openxmlformats.org/office/word/2010/wordprocessingShape">

```

Any ideas would be greatly appreciated!

thanks so much

Ricky

Last edited by Ricky Rocker; 07-29-2019 at 04:36 PM.

07-29-2019, 03:56 PM

NevenTeve
Senior Member

Registered: Oct 2011
Location: Budapest
Distribution:
Debian/GNU/Linux, AIX
Posts: 3,979

Rep: 

You might want to edit your post to add [code] and [/code] tags.

07-29-2019, 04:40 PM

Ricky Rocker
LQ Newbie

Registered: Jul 2019
Posts: 3

Rep: 



Hi,

Thanks very much for the formatting tip.

I've tidied up but no longer need assistance as have resolved the issue I explain above. It was actually a PHP DOMDocument issue PHP bug.

schemaValidate ignores namespaces dynamically added to a DOMDocument <https://bugs.php.net/bug.php?id=78352>

Last edited by Ricky Rocker; 07-29-2019 at 04:52 PM.

1 members four



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Tags

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