Custom XML Defect Reports

DR 09-0191 — Custom XML Schema: Allowed attribute values

Agreed.

The following changes will be made to both transitional and strict:

- Create a new simple type, ST_Uri, with restriction set to xs:anyURI.
- The attributes schemaLocation (schema @schemaLocation (23.2.1)) and manifestLocation (schema @manifestLocation (23.2.1)) will be restricted to ST_Uri instead of ST_String

In summary, this change affects the following elements

- schema @schemaLocation (23.2.1)
- schema @manifestLocation (23.2.1)

New subsection needs to be added to Part 1 Section 22.9.2:

22.9.2.X   ST_Uri (Uniform Resource Identifier Reference)

This simple type specifies that its contents contain a Uniform Resource Identifier Reference (URI).

[Example: Consider the following WordprocessingML fragment for the properties of a single custom XML element:

```
<w:customXmlPr>
      <w:attr w:name="company"
w:uri="http://schemas.openxmlformats.org/2006/example" … />
</w: customXmlPr>
```
The attr element specifies that the URI associated with the attribute name whose value is company shall be http://schemas.openxmlformats.org/2006/example. *end example*]

This simple type's contents are a restriction of the W3C XML Schema anyURI datatype.

DR 09-0207 – WML: Custom XML and Smart Tags

See attached document for revisions made to section 17.5 and 17.5.1.

DR 09-0208 – WML: Custom XML and Smart Tags

(WG4DefectReportResponses bug 45)

See attached document for revisions made to section 17.5 and 17.5.1.

DR 09-0209 – WML: Custom XML and Smart Tags

No change is needed in the text to describe behavior of missing uri attribute. The description of how the SmartTag element behaves in the cases where the attributes are missing is described properly in Part 1, 17.5.1.9, "SmartTag (Inline-Level Smart Tag)." The standard states that if uri is omitted then "uri shall be assumed to be null (no associated URI)"

For rewording of 17.5.1 see attached document for revisions made to section 17.5 and 17.5.1.

DR 09-0210 – WML: Custom XML and Smart Tags

See attached document for revisions made to section 17.5 and 17.5.1.

DR 09-0211 – WML: Custom XML and Smart Tags

See attached document for revisions made to section 17.5 and 17.5.1.

DR 09-0212 – WML: Custom XML and Smart Tags

Agreed.

The following changes will be made to both transitional and strict:

- Create a new simple type, ST_XmlName, with restriction set to xs:NCName
- The attributes name (attr @name (17.5.1.1) and attr @name (17.5.1.2)) and element (customXml @element (17.5.1.3), customXml @element (17.5.1.4), customXml @element (17.5.1.5), customXml @element (17.5.1.6), and smartTag @element(17.5.1.9)) will be restricted to ST_XmlName instead of ST_String

In summary, this change affects the following elements:

- attr @name (17.5.1.1)
- attr @name (17.5.1.2)
- customXml @element (17.5.1.3)
- customXml @element (17.5.1.4)
- customXml @element (17.5.1.5)
- customXml @element (17.5.1.6)
- smartTag @element(17.5.1.9)

New subsection needs to be added to Part 1 Section 22.9.2:

22.9.2.X   ST_XmlName (XML Name)

This simple type specifies that its contents contain an XML non-colonized name (NCName).

[Example: Consider the following WordprocessingML fragment for the properties of a single custom XML element:

```
<w:customXmlPr>
        <w:attr w:name="company"
w:uri="http://schemas.openxmlformats.org/2006/example" … />
</w: customXmlPr>
```
The attr element specifies that the NCName associated with the attribute name shall be company. *end example*]

This simple type's contents are a restriction of the W3C XML Schema NCName datatype.

The following changes will be made to both transitional and strict:

- Create a new simple type, ST_Uri, with restriction set to xs:anyURI.
- The attribute uri (attr @uri (17.5.1.1), attr @uri (17.5.1.2), customXml @uri (17.5.1.3), customXml @uri (17.5.1.4), customXml @uri (17.5.1.5), customXml @uri (17.5.1.6), smartTag @uri(17.5.1.9) , and schema @uri (23.2.1)) will be restricted to ST_Uri instead of ST_String

In summary, this change affects the following elements:

- attr @uri (17.5.1.1)
- attr @uri (17.5.1.2)
- customXml @uri (17.5.1.3)
- customXml @uri (17.5.1.4)
- customXml @uri (17.5.1.5)
- customXml @uri (17.5.1.6)
- smartTag @uri(17.5.1.9)
- schema @uri (23.2.1)

New subsection needs to be added to Part 1 Section 22.9.2:

22.9.2.X   ST_Uri (Uniform Resource Identifier Reference)

This simple type specifies that its contents contain a Uniform Resource Identifier Reference (URI).

[Example: Consider the following WordprocessingML fragment for the properties of a single custom XML element:

```
<w:customXmlPr>
        <w:attr w:name="company"
w:uri="http://schemas.openxmlformats.org/2006/example" … />
</w: customXmlPr>
```

The attr element specifies that the URI associated with the attribute name whose value is company shall be `http://schemas.openxmlformats.org/2006/example`. *end example*]

This simple type's contents are a restriction of the W3C XML Schema anyURI datatype.

DR 09-0213 – WML: Custom XML and Smart Tags

See attached document for revisions made to section 17.5 and 17.5.1.

DR 09-0028 – WML, Custom XML and Smart Tags: Tighten data types

Same proposal as DR 09-0212.

Agreed. The following changes will be made to both transitional and strict:

- Create a new simple type, ST_XmlName, with restriction set to xs:NCName
- The attributes name (attr @name (17.5.1.1) and attr @name (17.5.1.2)) and element (customXml @element (17.5.1.3), customXml @element (17.5.1.4), customXml @element (17.5.1.5), customXml @element (17.5.1.6), and smartTag @element(17.5.1.9)) will be restricted to ST_XmlName instead of ST_String

In summary, this change affects the following elements:

- attr @name (17.5.1.1)
- attr @name (17.5.1.2)
- customXml @element (17.5.1.3)
- customXml @element (17.5.1.4)
- customXml @element (17.5.1.5)
- customXml @element (17.5.1.6)
- smartTag @element(17.5.1.9)

New subsection needs to be added to Part 1 Section 22.9.2:

22.9.2.X   ST_XmlName (XML Name)

This simple type specifies that its contents contain an XML non-colonized name (NCName).

[Example: Consider the following WordprocessingML fragment for the properties of a single custom XML element:

```
<w:customXmlPr>
      <w:attr w:name="company"
w:uri="http://schemas.openxmlformats.org/2006/example" … />
</w: customXmlPr>
```
The attr element specifies that the NCName associated with the attribute name shall be `company`. *end example*]

This simple type's contents are a restriction of the W3C XML Schema NCName datatype.

The following changes will be made to both transitional and strict:

- Create a new simple type, ST_Uri, with restriction set to xs:anyURI.
- The attribute uri (attr @uri (17.5.1.1), attr @uri (17.5.1.2), customXml @uri (17.5.1.3), customXml @uri (17.5.1.4), customXml @uri (17.5.1.5), customXml @uri (17.5.1.6), smartTag @uri(17.5.1.9) , and schema @uri (23.2.1)) will be restricted to ST_Uri instead of ST_String

In summary, this change affects the following elements:

- attr @uri (17.5.1.1)
- attr @uri (17.5.1.2)
- customXml @uri (17.5.1.3)
- customXml @uri (17.5.1.4)
- customXml @uri (17.5.1.5)
- customXml @uri (17.5.1.6)
- smartTag @uri(17.5.1.9)
- schema @uri (23.2.1)

New subsection needs to be added to Part 1 Section 22.9.2:

22.9.2.X   ST_Uri (Uniform Resource Identifier Reference)

This simple type specifies that its contents contain a Uniform Resource Identifier Reference (URI).

[Example: Consider the following WordprocessingML fragment for the properties of a single custom XML element:

```
<w:customXmlPr>
      <w:attr w:name="company"
w:uri="http://schemas.openxmlformats.org/2006/example" … />
</w: customXmlPr>
```
The attr element specifies that the URI associated with the attribute name whose value is company shall be http://schemas.openxmlformats.org/2006/example. *end example*]

This simple type's contents are a restriction of the W3C XML Schema anyURI datatype.

DR 09-0221 – WNL: Custom XML Attribute

Section 17.5.1.1 shall be updated as follows:

17.5.1.1 attr (Custom XML Attribute)

This element specifies a custom XML attribute which shall be located on the parent custom XML element specified via the customXml element (§17.5.1.4;§17.5.1.5;§17.5.1.3; §17.5.1.6). The attributes on this element shall be used to specify the contents of the custom XML attribute. <ins>A document shall contain unique attr elements with a given name and uri attribute value pair or a given name and an empty or omitted uri attribute value pair.</ins>

[*Example*: Consider a custom XML element with the following properties:
```
<w:customXmlPr>
<w:attr w:name="companyName" … />
<w:attr w:name="companySymbol" … />
</w:customXmPr>
```
This property bag specifies that the parent custom XML element must have two attributes associated with it, he first with a name of `companyName`, and the second with a name of `companySymbol`. *end example*]

DR 09-0249 – Custom XML markup: well-formedness and validation

Recommend no additions/changes to the ISO Open XML standard.

It is a consumer defined operation to extract XML documents from custom XML markup. The ISO Open XML standard already includes informative information on extracting custom XML data from WordprocessingML documents in Part 1, Annex F. As mentioned in that section of the standard, it is possible to extract XML from custom XML markup that is not well-formed (in the case where more than one root element has been defined in the custom XML markup). In addition, custom XML markup, if added according to the specification, will never create a non-conformant Open XML document. In other words, custom XML markup can only be added to WordprocessingML documents using the various customXml elements provided by the standard. Determining XML prefixes and default values for extracted custom XML markup is out of scope of what should be included in the Open XML standard. Consumers can choose whether or not to include XML prefixes or default values to extracted custom XML data. Either choice does not affect the semantics of the Open XML standard.