

Morpho - Bug #1561

EML Attribute Page Editor doesn't handle some XML Schema attributes/elements correctly

05/12/2004 07:16 PM - Chris Jones

Status:	In Progress	Start date:	05/12/2004
Priority:	Normal	Due date:	
Assignee:	Saurabh Garg	% Done:	0%
Category:	morpho - general	Estimated time:	0.00 hour
Target version:	1.8.1	Spent time:	0.00 hour
Bugzilla-Id:	1561		
Description			
<p>In morpho 1.5.1, the data Package Wizard creates EML2.0.0 packages without inserting the (optional) enforced="yes no" schema attribute in the nominal and ordinal measurement scale enumeratedDomain elements. If packages are then edited with the Tree Editor, the enforced="yes no" attribute is inserted (confirmed by Sid).</p> <p>Subsequent edits of the column metadata with the Data --> "Edit Column Documentation" menu incorrectly brings up the Tree Editor for Nominal and Ordinal columns. AttributePage.java calls setPageData() in order to populate the fields found in the OrderedMap of XPATH strings and values. All of the elements in the map are handled NominalOrdinalPanel.java, but the XML attributes are not, such as the enforced="yes no" attribute.</p> <p>In AttributePage.java, attributes are discarded with:</p> <pre>map.remove(xpathRoot + "@id"); map.remove(xpathRoot + "@scope");</pre> <p>and so the 'enforced' attribute can be discarded with:</p> <pre>map.remove(xpathRoot + "/measurementScale¹/nominal¹/nonNumericDomain¹/enumeratedDomain¹/@enforced");</pre> <p>However, this seems like a hack, since at some point down the line the 'enforced' field should be presented as a check box or another widget. Likewise, other XML attributes should be handled as to not discard the information.</p>			

History

#1 - 05/13/2004 09:54 AM - Matthew Brooke

the map.remove() should be part of the setPanelData() method for the enumeratedDomain subpanel, not the setPageData() method for the top level attributePage. That way, it is located logically where the relevant metadata would be handled (or **will** be handled if, in future, a checkbox is ever added for this attribute, as chris mentioned above.)

#2 - 05/13/2004 04:31 PM - Chris Jones

As an addition to this bug, some elements may have been overlooked as well:

```
/eml:eml/dataset/dataTable/attributeList/attribute/missingValueCode/codeExplanation
```

is left over in the OrderedMap, and so the Tree Editor is enabled rather than the Attribute Editor

#3 - 05/13/2004 04:55 PM - Chris Jones

One more attribute not handled and left in the OrderedMap:

```
/eml:eml/dataset/dataTable/attributeList/attribute/storageType/@typeSystem
```

#4 - 05/14/2004 04:45 AM - Dan Higgins

An alternative 'fix' would be to change the way the tree editor handles xml

attributes. Right now it inserts suggested value wheng available and trims those with no information when saving. The template could be changed to not insert anything into all optional attributes. Unfortunaely, there is currently a bug in the tree editor in that it does not 'know' whether xml attributes are optional or required.

#5 - 06/23/2004 02:26 PM - Chris Jones

I've changed both AttributePage.java and NominalOrdinalPanel.java to handle the /@id, /@scope, /@system, /@enforced, /@typeSystem attributes. We still need to address the missingValueCode/codeExplanation element mention previously. Also, we need to check both IntervalRatioPanel.java and DateTimePanel.java for similar bugs where there are not placeholders or widgets to handle the various XML attributes.

#6 - 06/23/2004 07:03 PM - Chris Jones

I've added placeholders for the <missingValueCode> sub elements: and <codeExplanation>. This changed the setPageData() and getPageData methods.

#7 - 06/13/2005 01:03 PM - Saurabh Garg

Trying to summarize the state of this bug based on above comments and cvs messages for commits done by Chris.

<http://cvs.ecoinformatics.org/cvs/cvsweb.cgi/morpho/src/edu/ucsb/nceas/morpho/plugins/datapackagewizard/pages/AttributePage.java>

and

<http://cvs.ecoinformatics.org/cvs/cvsweb.cgi/morpho/src/edu/ucsb/nceas/morpho/plugins/datapackagewizard/pages/NominalOrdinalPanel.java>

1. "This fix brings up another bug: <enumeratedDomain> is repeatable, but the AttributePage class is only set up to handle the first instance of this element by using the NominalOrdinalPanel, IntervalRatioPanel, etc. "
This should be added as a bug if not added already

2. "Also, we need to check both IntervalRatioPanel.java and DateTimePanel.java for similar bugs where there are not placeholders or widgets to handle the various XML attributes."

Will add placeholders for @id to IntervalRatioPanel.java and DateTimePanel.java

3. "Still need to deal with coverage and method. This fix also only supports a single missing value code/codeExplanation pair for the attribute in question. When this is converted to a widget in the interface, we should handle the case were missingValueCode elements repeat."

We do not cover a lot of the eml fields in the wizard screens. This is true for all the wizard screens. This is because wizard screens were kept simple and only used for gathering data which is required. Hence, though having widgets for coverage and method information would be useful, there might be some discussion on which fields should be included in the screens. Same is true for missingValueCode.

I think placeholders for attributes like id,scope etc are good to have. But any field that has relevant data in it should be displayed to the user. Thats where tree editor comes in - even though it is not as user friendly as wizard screens.

#8 - 03/27/2013 02:17 PM - Redmine Admin

Original Bugzilla ID was 1561