

EML - Bug #480

eml-resource changes needed

05/01/2002 04:15 PM - Matt Jones

Status:	Resolved	Start date:	05/01/2002
Priority:	Immediate	Due date:	
Assignee:	Matt Jones	% Done:	0%
Category:	eml - general bugs	Estimated time:	0.00 hour
Target version:	Beta9	Spent time:	0.00 hour
Bugzilla-Id:	480		
Description			
Changes as decided upon at the Sevilleta EML meeting, April 24-25, 2002: Responsible: Matt			
1) Change originator to "creator" +, remove role from RespParty but keep simple type 2) Add "associatedParty" *, extends Resp Party with role 3) move "pubPlace" to individual modules so it can be optional or required 4) make sure pubDate can be a year only -- check Date type model 5) add "language" element, use string content model (not enumerated domain) 6) move "coverage" to resource, make "Coverage" ComplexType (repeatable, opt elements of each cov subtype) 7) make "keywordThesaurus" not repeatable (0..1) 8) rename "rights" to "intellectualRights" 9) add "metadataProvider" * element with type of Resp Party 10) move "distribution" * to resource -- distribution* -- connection* -- connectionName -- URL+ --offlineResource* -- contact* (type RespParty) 11) Add "taxonomic" to enum list for KeywordType			
Related issues:			
Blocks EML - Bug #491: eml-coverage changes needed		Resolved	05/01/2002

History

#1 - 05/09/2002 04:21 PM - Matt Jones

Completed subitems 1, 2, 3, 4, 5, 7, 8, 9, and 11. Regarding pubDate (4), the XML Schema datatypes spec does not allow truncation of any date type, so the "xs:date" type must be a full calendar date, and the "xs:gYear" must be a 4 digit year and can not contain a month or day. Therefore, I have changed the type of the "pubDate" field to be "xs:string", and specified in the docs that the date should follow ISO 8601 format. We may want to consider creating a derived type that is either a gYear or a xs:date value.

Changes to coverage (6) are waiting on required changes to the eml-coverage module.

That leaves items (6-coverage) and (10-distribution) remaining.

#2 - 05/14/2002 03:53 PM - Matt Jones

Item (6) is finished now that coverage has been updated in eml-coverage.

Item (10): Distribution:

I have created a content model that I think satisfies the spirit of our Sevilleta discussions in full, but is more compact than the exact content model that we discussed there. However, I still have problems with using the named parameter list as it currently stands in the module. Right now, the model is:

```
<!ELEMENT distribution ((connection|offlineMedium)+)>
<!ELEMENT connection (onlineURL|parameter+)>
<!ATTLIST connection name CDATA #IMPLIED
scheme CDATA #IMPLIED>
<!ELEMENT onlineURL (#PCDATA)>
<!ELEMENT parameter (#PCDATA)>
<!ATTLIST parameter name CDATA #IMPLIED>
```

This means someone can submit either a url or a list of named parameters for a connection. However, the latter does not have well defined semantics, and so it is impossible to actually construct a connection using this information without a human interpreting the connection information. For example, if I give you the following named parameter list for the scheme "database", precisely how do you connect?

```
hostid=5
machinemap=7
network=tcp/ip
machinename=rover
machinedomain=somewhere.com
protocol=http
location=perm
```

My point is, the semantics of the parameter list are specific to the scheme, and URLs provide a standard way of encoding those semantics. If users create EML for a common http URL as a param list, we will effectively be eliminating the possibility of machine-processable connections.

An alternative is to provide a token substitution mechanism in the URLs. For example, if the user can define a token delimiter (e.g., "@"), then a url might be encoded as:

<http://host.org:9087/webapps/cgi/getdata?id=@identifier@&username=jones>

In which case a single parameter needs to be provided to make the connection. Trying to go beyond a simple URL encoding like this gets us into the realm of re-inventing SOAP/WSDL or other service description systems. I really don't think we should go there.

Sooo...I propose that we either 1) eliminate the parameter list entirely (preferred), or 2) augment the URLs with a token substitution mechanism.

#3 - 06/13/2002 07:00 PM - Matt Jones

Changes completed and in CVS.

#4 - 03/27/2013 02:14 PM - Redmine Admin

Original Bugzilla ID was 480