

## EML - Bug #568

### accomodation of stateful connection information.

08/22/2002 10:22 AM - Peter McCartney

<b>Status:</b>	Resolved	<b>Start date:</b>	08/22/2002
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Matt Jones	<b>% Done:</b>	0%
<b>Category:</b>	eml - general bugs	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	EML2.0.0rc2	<b>Spent time:</b>	0.00 hour
<b>Bugzilla-Id:</b>	568		

#### Description

This issue has two distinct, but often confused parts.

1) is it adequate to rely on an external convention (URL) to provide the standardization needed to unambiguously describe online access to data? points on both sides of the debate are extensibility of EML and redundancy with established standards, the extent to which those external bodies do in fact provide expressions of all online access protocols in common use by the community, and are we all conversant enough with that standard to use it efficiently.

2) should EML support descriptions of online connections that do not return a data object but instead enable opening of a stateful connection over which a proprietary communication protocol operates.

EML beta 9 supports online access in two forms: a download url which, when passed to a url processor that recognized the mode, will result in a data object, and an information url that is expected to point to a document of unknown format with further instructions on how to get the data.

#### History

##### #1 - 09/09/2002 10:59 AM - Peter McCartney

Ive reviewed the edits Matt made to distribution in response to fridays discussion on distribution. It struck me that there was alot of complexity that might be a result of prior edits, so Ive made an attempt an a much simpler version that i think does the same thing. in short, ive dropped connectionNotes as it seems redundant with the connection description, in connectionDefinition, Ive dropped the reference option within the entire distribution element as it was only the connectionDefinition that we wanted to make reuseable, Ive dropped connection Definition as a direct choice as it is a required element under connection.

so the way you use this is you may fill in a conection element under dataset and supply a connectionDefinition with defaults for some of the parameters.

for each eml-physical, you can supply a connection element and either provide or reference an existing connectionDefinition. Unless im missing some further functionality, this seems to do everything we wanted with fewer choices.

##### #2 - 09/11/2002 09:40 AM - Peter McCartney

Im happy with the connection/connectionDef solution, especially if it can be simplified as ive suggested here. Im reassigning this to matt so he can close it out when he's merged the changes.

##### #3 - 09/12/2002 01:28 PM - Matt Jones

FIXED. Changes checked into CVS. Although this solution using a "connection" element is more powerful than a plain URL, it is a far cry from being able to describe arbitrary application protocols, even things as simple as CGI scripts over HTTP. So, at some later point in time (after the 2.0.0 release), we may want to consider how to be more comprehensive about this solution, probably by adopting WSDL or a similar technology for connection descriptions.

**#4 - 09/16/2002 09:47 AM - Peter McCartney**

I still think there is some gratuitous complexity here regarding references

i dont see why we would want to enable references for connections in eml-physical - these should be unique.

I also dont see why we have a sequence containing a choice under conenctionDefinition. this looks like an error from a prior structure.

**#5 - 10/01/2002 12:41 PM - Matt Jones**

Discussed during conference call 10/1/2002. Agreed the current structure will work, and allows processors to distinguish between the connection and connectionDef.

Only chnage needed is to get rid of the superfluous choice nested in a sequence.

**#6 - 10/01/2002 05:08 PM - Matt Jones**

Done. Extraneous sequence has been removed from both the eml-resource and eml-physical modules. FIXED.

**#7 - 03/27/2013 02:14 PM - Redmine Admin**

Original Bugzilla ID was 568

**Files**

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eml-resource-test.xsd	40.4 KB	09/09/2002	Peter McCartney
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