

Metacat - Bug #279

entity resolver sometimes fails

09/12/2001 11:56 AM - Matt Jones

Status:	Resolved	Start date:	09/12/2001
Priority:	Immediate	Due date:	
Assignee:	Jivka Bojilova	% Done:	0%
Category:	metacat	Estimated time:	0.00 hour
Target version:	Release1.0	Spent time:	0.00 hour
Bugzilla-Id:	279		

Description

The DBEntityResolver is used during XML document parsing to find the locations of the DTDs to be used to validate a document. The current entity resolver works for the DOCTYPE entity and properly finds the proper dtd from the metacat dtd directory. However, when that dtd references another using an external entity, that secondary included DTD is not resolved. This is because the entity resolver takes a very document centric view of what it should do, and needs to be fixed to resolve all entities.

External entities generally use a relative SYSTEM id of the form:

```
<!ENTITY % resource SYSTEM "../eml-resource-2.0.dtd">
```

This system id needs to be interpreted and mapped to a file that is stored in the metacat dtd directory. Because the system ID can be relative, we need to register both the public ID and the relative system IDs (possibly two or more forms ("eml-resource.dtd", and "../eml-resource.dtd") for mapping to the true file location.

In addition, the Entity resolver class depends on DBSAXHandler to find the public ID. This may be an obsolete requirement based on older, buggy xerces parsers. We need to update Xerces and see if we still need this sax handler reference to make the resolver work correctly. Theoretically at least all of the needed info should be contained in the "resolveEntity(String publicID, String systemID)" call that is made to the resolver. If the sax handler is no longer needed for proper resolution, we should eliminate it to simplify the DBEntityResolver class.

History

#1 - 09/14/2001 01:01 PM - Jivka Bojilova

FIXED

resolving external entities included in the DTD is enabled;
external entities are now resolved successfully by DBEntityResolver using the specified system ids

and thus there no need of registering the relative system ids,

This is because EntityResolver uses its internal implementation to map the relative system ids to the

files on the current file system; for example external entity declared in the DTD as:

```
<!ENTITY % resource SYSTEM "../eml-resource.dtd">
```

is resolved to "file:///opt/tomcat/webapps/bojilova/dtd/eml-resource.dtd"

which is the right location of eml-resource.dtd file.

#2 - 03/27/2013 02:13 PM - Redmine Admin

Original Bugzilla ID was 279