

## Metacat - Bug #5300

### SchemaLocationResolver fails to download included xsd files

02/09/2011 01:40 PM - Jing Tao

<b>Status:</b>	Resolved	<b>Start date:</b>	02/09/2011
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Jing Tao	<b>% Done:</b>	0%
<b>Category:</b>	metacat	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	2.x.y	<b>Spent time:</b>	0.00 hour
<b>Bugzilla-Id:</b>	5300		

#### Description

I am trying to insert an eml document with embedded sensorML into metacat.

But i get the error:

```
knb 20110209-11:20:52: [WARN]: DBSaxHandler.warning - schema_reference.4: Failed to read schema document './system.xsd', because 1) could not find the document; 2) the document could not be read; 3) the root element of the document is not
```

```
<xsd:schema>. [edu.ucsb.nceas.metacat.DBsAXHandler]
```

```
knb 20110209-11:20:52: [ERROR]: DocumentImpl.write - Problem with parsing: schema_reference.4: Failed to read schema document './system.xsd', because 1) could not find the document; 2) the document could not be read; 3) the root element of the document is not <xsd:schema>. [edu.ucsb.nceas.metacat.DocumentImpl]
```

```
java.io.FileNotFoundException: http://chico1.dyndns.org/knb/schema/system.xsd
```

The sensorML xsd locates at:

<http://schemas.opengis.net/sensorML/1.0.1/sensorML.xsd>

DBEntityResolver can download it and register it to xml\_catalog table.

However, in sensorML.xsd there is a line:

```
<xs:include schemaLocation="./system.xsd"/>
```

Our resolver can't download the system.xsd which is part of sensorML schema. Moreover, the system.xsd includes another xsd file, process.xsd, as well. Metacat couldn't download process.xsd either.

#### History

##### #1 - 02/09/2011 02:37 PM - Jing Tao

Here is a way probably resolve this issue:

In edu.ucsb.nceas.metacat.service.XMLSchemaService class, we will add two new methods:

String[] getIncludeXSDFile(InputStream in); This method will parse the schema file(as an InputStream object) and get the list of include files.

String getBaseURL(String schemaURL); Get the base url of the schema location.

In SchemaLocationReolver.uploadSchemaFromURL call those two methods (maybe recursively?) and will upload all included schema into Metacat.

Any comments?

##### #2 - 02/11/2011 10:46 AM - Jing Tao

Add a new class XMLSchemaPaser which can extract the included schema information.

In XMLSchemaService class, add a new method handleIncludedSchema, it recursively downloads the included schemas. I also wrote a junit test method to test the new change. It works. Close the bug.

##### #3 - 03/27/2013 02:29 PM - Redmine Admin

Original Bugzilla ID was 5300