Metacat - Bug #2548

Architecture for filtering features from WMS requests

09/11/2006 03:00 PM - Matthew Perry

Status:	New	**Start date:**	09/11/2006
Priority:	Normal	**Due date:**	
Assignee:	Michael Daigle	**% Done:**	0%
Category:	metacat	**Estimated time:**	0.00 hour
Target version:	Unspecified	**Spent time:**	0.00 hour
Bugzilla-Id:	2548		

Description

Currently, all of the documents in the metacat database are stored in the spatial cache. When the web client requests a map image, all the features in that extent are shown.

We need to intercept the WMS request (possibly by using a servlet filter, possibly by writing our own WMS handler) and prevent features from being included in the map based on various contraints:

1) Access permissions. If a user doesn't have read permissions, they shouldn't see the feature in the map.

2) Queries. The WMS request may be paired with a non-spatial query, the results of which should define a subset of documents that are to be drawn.

3) Skin configuration. Some skins may want to filter the map features based on organization name or other contraints.

For now the critical part is the access constraints. In the mean time, we'll just cache only public docs.

History

#1 - 12/06/2006 04:25 PM - Matthew Perry

Though this won't be fully implemented, it's important to have the basic architecture in place before the first release so that devs can pick it up after I leave.

#2 - 12/11/2006 07:09 PM - Matthew Perry

correction to original bug description:

```
Currently, all of the PUBLIC documents in the metacat database are stored in the spatial cache.
```

#3 - 12/11/2006 07:14 PM - Matthew Perry

The initial architecture for dynamically generated sld filters is in place. The SLD Factory can now take a list of allowable docids and generate an SLD which, when appended to a WMS request, can limit which features are shown on the map.

The actual generation of the allowable docid list is currently very expensive so it is not implemented. Ideally the allowable docids could be determined based on session variables to avoid having to run expensive SQL queries on every map redraw.

Since this requires more extensive changes than I can commit to before the 1.7.0 release, I'm pushing this off to 1.8.

#4 - 05/04/2007 12:17 PM - Matt Jones

TDWG has proposed the use of a proxy service for LSID identifiers that allows LSIDs to be resolved using standard web browsers:

http://wiki.tdwg.org/twiki/bin/view/GUID/LsidHttpProxyUsageRecommendation

Given that Metacat has support for LSIDs built in, we should probably consider following their recommendations.

I tried out the proxy resolver that they put in place (http://lsid.tdwg.org/) -- my only complaint is that it is not particularly well formatted for the resources described, if only because its a generic service. It would be nice to consider how to include formatting/styling information in a way that allowed the proxy to do a better job presenting the information.

Here's a metacat LSID being resolved by their proxy:

```
Get the RDF: http://lsid.tdwg.org/urn:lsid:esa.org:esa:8:7
Get RDF in HTML: http://lsid.tdwg.org/summary/urn:lsid:esa.org:esa:8:7
```

Note the latter provides direct links to the GetMetadata and GetData endpoints that we provide from the esa.org LSID authority.

#5 - 05/04/2007 01:16 PM - Matt Jones

Comment #4 was accidentally attached to this bug, which is the wrong one. Please ignore it here.

#6 - 03/27/2013 02:20 PM - Redmine Admin

Original Bugzilla ID was 2548