XACML Utility for Embargo R5.1

The objective is to provide a utility for ingest of the xacml policy after the ETD and faculty deposit objects have been ingested with the embargo date in the Rights Event. The user interface and software should be compatible with WMS so this capability can be integrated into WMS in R5.2. In R5.1, the ETD and faculty collection manager should be able to ingest the xacml as part of the object ingest process.

Scenario

A faculty member or a student has specified the embargo of a document. The ETD and FD software will capture the embargo period in the RightsMD: rightsMD / rightsEvent type="DRM implementation" / associatedObject type="embargo" / Detail [Here, give the length of the embargo, e.g., "Embargo period: e.g. 12 months"]. The ETD and FD software will send an email to collection manager/cataloger to inform that an embargo object is in WMS now. Then the collection manager ingests this item, records the Fedora ID, and inserts the fedora ID into the input field "fedora id" (See Figure 1 below). The collection manager goes to dlr/EDIT and finds the Degree Date, e.g., 2009-05-31 (for ETD) and Date Created, e.g., 2009-05-31T03:11:54.000Z (for FD) in the MODS metadata. The collection manager only keeps the first part of the date created for the FD, removes the half part from "T03:11:54.000Z". In this case, 2009-05-31 is the embargo start date. The collection manager keeps this date, e.g., 2009-05-31 and copies it into the input field "start date" (see figure 1). Upon selection of "create xacml policy", the utility will create an XACML policy to be added to the object with the addDatastream function. The utility algorithm uses the start date and the embargo period, as specified by the collection manager – see Figure 1, to compute the date at which the embargo will expire. It is this date that is inserted into the xacml policy. The xacml policy becomes a datastream in the object with ID equal to POLICY. All the datastreams will be embargoed (i.e. PDF-1, JPEG-1, DJUV-1). This utility will be integrated into WMS for R5.2

Utility

As the Faculty deposit and ETD user submitted each object, the collection manager and other RUcore staff will receive an alert from the submit process which will provide the information about the embargoed object. The collection manager will need to manually track the progress of the item though the WMS until it has been ingested into Fedora. If the collection manager finds the item with Rights Event embargo period is set, then do the following to create the xacml.

In creating the xacml, the collection manager will execute the following steps:

1. The collection manager gets email notification of an item with embargo date.
2. When the collection manager/cataloger ingests this object, she/he will record the fedora id (Rutgers-lib:1234). At the same time the collection manager will open the utility and copy the fedora id in the input field with "fedora id" which xacml is to be created.

3. The collection manager chooses the embargo period form the dropdown list to match the rights event in the following format: e.g., Embargo period: 12 months.
4. The collection manager enters the start date, e.g., (2009-05-31);
5. The collection manager clicks the "create xacml policy" button.
6. The utility uses start date and the embargo period to compute the date at which the embargo will expire. Converts the date to UTC date time and generates the XACML.
7. The utility finds the object and adds the POLICY datastream to this object.
8. The collection manager can view and edit the xacml POLICY for the object though dlr/EDIT.

User Interface

A prototype of the user interface is shown below:

Figure 1

Implementation Details

- The implementation code will be shared and reused in WMS R5.2.
- The utility will validate POLICY XML datastreams.
- It is assumed that the rights event with the embargo period has been ingested with the object.
- The API-M method used in this utility will be "addDatastream" for the POLICY datastream and "purgeDatastream" for purging the POLICY datastream if the policy requires updating.
- Policy datastream will be viewable for Fedora admin

07/24/09 Jie