Indexing Transformations

Indexing transformations are stored in the repository in a well-known location. Default transformations are inserted into the repository the first time any access is made against the Fedora 4 transformation endpoint. Currently transformations using LDPath are supported.

Transformation locations

In order for LDPath transformations to be accessed by name, they must be stored in the repository according to the following rules:

- they must be stored as content at the path **/fedora:system/fedora:transform/fedora:ldpath/[transformation name]/[type or mixintype]**
- they should not have the name "default" as that is reserved for a default transformation

Load a custom ldpath transformation program

The following is an example of loading a LDPath program called "custom".

```
curl -X PUT -H "Content-Type: application/rdf+ldpath" --data-binary "@post.txt" "http://localhost:8080/rest
/fedora:system/fedora:transform/fedora:ldpath/custom/fedora:Container"

post.txt:
@prefix fcrepo : <http://fedora.info/definitions/v4/repository#>
id      = . :: xsd:string ;
title_tsi = dc:title :: xsd:string;
uuid_ssi = fcrepo:uuid :: xsd:string ;
```

Transform REST API Documentation

- GET get a resource transformed with the default transform
  - Note
- POST get a resource transformed with the supplied transform

Request URI: **/fcr:transform/{program}**

Methods: GET, POST

GET **get a resource transformed with the default transform**

Request Headers:

Example:

default transform

```
@prefix fedora : <http://fedora.info/definitions/v4/repository#>
id      = . :: xsd:string ;
title = dc:title :: xsd:string;
uuid = fedora:uuid :: xsd:string ;
```

```
curl "http://localhost:8080/rest/49/3d/24/41/493d2441-0541-41c7-a23b-09d1f17d4a0f/fcr:transform/default"
```

Response:

```
Status: 200 OK

Headers:

Content-Type: application/json
Transfer-Encoding: chunked
Server: Jetty(8.1.11.v20130520)

Body:

[{"id":["http://localhost:8080/rest/49/3d/24/41/493d2441-0541-41c7-a23b-09d1f17d4a0f"],"title":[],"uuid":
["07630a24-5a0b-4ba7-80ab-0691f68667ce"]}]
```

Status:

200 OK: if the transform is applied successfully

400 Bad Request: if the program doesn't exist

404 Not Found: if the resource doesn't exist

Note

To reference a stored "program" in the GET form of the fcr:transform service, the LDPath transformation directive must be stored at the following path:

```
http://localhost:8080/rest/fedora:system/fedora:transform/fedora:ldpath/<program-name>/<resource-type>
```

Where <program-name> can be any name, and <resource-type> is the type of Fedora resource on which the transform will be applied:

- "fedora:Container"
- "fedora:nonRdfSourceDescription"
- "fedora:Resource"

Example:

1. Store a new program.

```
curl -i -X PUT -H "Content-Type: application/rdf+ldpath" --data-binary "@post.txt" http://localhost:8080/rest
/fedora:system/fedora:transform/fedora:ldpath/newprogram/fedora:Container
```

Response

```
Status 201 Created

Headers:
Content-Type: text/plain

http://localhost:8080/rest/fedora:system/fedora:transform/fedora:ldpath/newprogram/fedora:Container
```

2. Get a resource transformed with the stored transform

```
curl -i http://localhost:8080/rest/pid5/fcr:transform/newprogram
```

Response

```
Status 200 OK


Header:
Server: Apache-Coyote/1.1
Content-Type: application/json

Body:
[{"id":["http://localhost:8080/rest/pid5"],"title":["some-resource-title"],"description":[],"uuid":["caa7bc6c-
b80b-4e30-8ec1-15e90937e3be"]}]
```

POST get a resource transformed with the supplied transform

Output formats: application/json,text/tab-separated-values,text/csv,text/sse,text/plain,application/sparql-results+json,application/sparql-results+xml, application/sparql-results+bio,text/turtle,text/rdf+n3,application/N-triples,application/rdf_xml

Example:

```
curl -X POST -H "Content-Type: application/rdf+ldpath" --data-binary "@post.txt" "http://localhost:8080/rest/49
/3d/24/41/493d2441-0541-41c7-a23b-09d1f17d4a0f/fcr:transform"

Body:
@prefix fcrepo : <http://fedora.info/definitions/v4/repository#>
id      = . :: xsd:string ;
title = dc:title :: xsd:string;
uuid = fcrepo:uuid :: xsd:string ;
```

Response:

```
Status: 200 OK

Headers:

Content-Type: application/json
Transfer-Encoding: chunked
Server: Jetty(8.1.11.v20130520)

Body:

[{"id":["http://localhost:8080/rest/49/3d/24/41/493d2441-0541-41c7-a23b-09d1f17d4a0f"],"title":[],"uuid":
["07630a24-5a0b-4ba7-80ab-0691f68667ce"]}]
```

Status:

200 OK: if the transform is applied successfully

400 Bad Request: if there was an error parsing or processing the transform

404 Not Found: if the resources doesn't exist