

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