Globbing

Reading Resources

are encouraged to perform content negotiation for RDF resources, depending on the value Resources can be commonly accessed (i.e. read) using HTTP GET requests. Solid servers of the Accept header.

IMPORTANT: a default Content-Type: text/turtle will be used for requests for RDF resources or views (containers) that do not have an Accept header.

Streams

size of the resource, and more importantly any other RDF type specified for the resource in maps to a file or a directory on the server, using the POSIX vocabulary. Here is an example its metadata. You will notice in the example below that the profile> resource has the extra contents when receiving requests for containers. For every resource in a container, a Solid Being LDP (BasicContainer) compliant, Solid servers MUST return a full listing of container server may include additional metadata, such as the time the resource was modified, the Extra metadata can also be added, describing whether each resource in the container resource <workspace/> has the RDF type<http://www.w3.org/ns/pim/space#Workspace>. that reflects how our current server implementations handle such a request: RDF type<http://xmlns.com/foaf/0.1/PersonalProfileDocument>, and also that the

REQUEST:

```
a <a href="http://xmlns.com/foaf/0.1/PersonalProfileDocument">http://www.w3.org/ns/posix/stat#File</a>;
                                                                                                                                                                                                                                                                                                                                                                                                                  a <a href="http://www.w3.org/ns/ldp#BasicContainer">> http://www.w3.org/ns/ldp#Container</a>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <http://www.w3.org/ns/posix/stat#mtime> "1436281776";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <http://www.w3.org/ns/posix/stat#mtime> "1434583075";
                                                                                                                                                                                                                        @prefix rdf: <a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <http://www.w3.org/ns/posix/stat#size> "4096"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <http://www.w3.org/ns/posix/stat#size> "780"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <http://www.w3.org/ns/posix/stat#Directory> ;
Host: example.org
                                                                                                                                                                  HTTP/1.1 200 OK
                                                              RESPONSE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cprofile>
```

Globbing (inlining on GET)

instance, to optimize certain applications we needed to aggregate all RDF resources from a We have found that in some cases, using the existing LDP features was not enough. For

container and retrieve them with a single GET operation. We implemented this feature on URI which ends with a * will return an aggregate view of all the resources that match the the servers and decided to call it "globbing". Similar to UNIX shell glob, doing a indicated pattern.

For example, let's assume that /data/res1 and /data/res2 are two resources containing one triple each, which defines their type as follows:

For res1:

```
<> a <https://example.org/ns/type#One> .
```

For res2:

```
<> a <https://example.org/ns/type#Two> .
```

If one would like to fetch all resources of a container beginning

with res (e.g. /data/res1, /data/res2) in one request, they could do a GET on /data/res* as follows. **REQUEST:**

```
GET /data/res* HTTP/1.1
```

```
Host: example.org
RESPONSE:
```

```
a <https://example.org/ns/type#One>
                                                                                                                                                                                    a <https://example.org/ns/type#Two>
HTTP/1.1 200 OK
                                                                                                                                               <re><re><</re></re>
                                       <res1>
```

Alternatively, one could ask the server to inline all resources of a container, which includes the triples corresponding to the container itself:

REQUEST:

```
<http://www.w3.org/ns/ldp#contains> <res1>, <res2>
                                                                                                                                                                                                                                         a <http://www.w3.org/ns/ldp#BasicContainer>;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    a <https://example.org/ns/type#Two> .
                                                                                                                                                                                                                                                                                                                                                                                                                      a <https://example.org/ns/type#One>
GET /data/* HTTP/1.1
                                         Host: example.org
                                                                                                                                                        HTTP/1.1 200 OK
                                                                                    RESPONSE:
                                                                                                                                                                                                                                                                                                                                                                             <re><re><re><re><re></re></re>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <re><re><</re></re>
```

Note: the aggregation process is not currently recursive, therefore it will not apply to children containers.