

# University of New South Wales

- [Use Case 1 - Data management plan ingest and storage](#)
- [Use Case 2 - Deposit interim data in RDF format and search using SPAQRL](#)
- [Use Case 3 - Versioning interim data and accessible through "Cool" URL format](#)
- [Use Case 4 - Generate final data output for fedora storage in "Cool" URL format](#)
- [Use Case 5 - Updating/Editing multiple fedora records](#)
- [Use Case 6 - Viewing/exporting usage statistics about fedora records](#)
- [Other Use Cases of Interest](#)

## Use Case 1 - Data management plan ingest and storage

Title	Data management plan ingest and storage
Primary Actor	Researcher
Scope	-
Level	-
Story	Researcher A creates a <b>data management plan</b> and stores in Fedora via Fedora User Interface or API.  Note: Improve SOAP/REST API to handle deposit, edit and query final research data outputs.
Comments	AWoods: Please expand on this use case to clarify how it differs from a standard ingest operation (i.e. Where does the "data management plan" play in?).

## Use Case 2 - Deposit interim data in RDF format and search using SPAQRL

Title	Deposit interim data in RDF format and search using SPAQRL
Primary Actor	Researcher
Scope	
Level	
Story	<p>Researcher A's grant application was successful, and is working with Researcher B on this project. They have already produced some data that they would like to store in the repository. So, they will need to store the following items in Fedora:</p> <ul style="list-style-type: none"><li>• An RDF-based metadata record describing any source data from which the "interim" data was derived (Item 1)</li><li>• RDF-based Metadata records about Researchers A and B (Items 2 and 3)</li><li>• An RDF-based metadata record about their research project (item 4). This includes relationship between the project (Item 4) and the data management plan created in Use case 1.</li><li>• The actual data object (item 5).</li><li>• An RDF-based metadata record describing their "interim" data and the research methodology (Item 6). This includes relationships between item 6 and items 1,2,3,4 and 5</li></ul> <p>Note: It is not necessary for item 5 to be stored in Fedora with the rest of the items. Item 5 can be stored on external storage such as another Fedora or other storage system with a resolvable URL to item 5.</p> <p>Once stored in Fedora, the researchers are provided with URLs to the items stored. The URL of an item resolves to that item, which also contains URLs to the other related items. For example, item 6 will have URLs to items 1, 2, 3, 4 and 5, while item 4 will have a link to the data management plan.</p> <p>In addition, the URLs to the items are human readable, providing meaningful information about the corresponding resources. For example, the URL for item 1 could be <a href="http://www.domain.com/resoure/metadata/1135">http://www.domain.com/resoure/metadata/1135</a> , which implies that this URL represents a metadata record.</p> <p>Additionally, Researcher A is interested in using SPARQL queries to find patterns in Fedora metadata records across multiple grant projects.</p> <p>Note: Improve SOAP/REST API to handle deposit, edit and query final research data outputs.</p>

## Use Case 3 - Versioning interim data and accessible through "Cool" URL format

Title	Versioning interim data and accessible through "Cool" URL format
Primary Actor	Researcher

Scope	
Level	
Story	<p>Researcher C joins the project and improves the interim data. The improved data needs to be stored in Fedora as a new version of the previously stored record. So, the items deposited in Fedora are:</p> <ul style="list-style-type: none"> <li>• The new version of the data</li> <li>• An RDF-based record about Researcher C</li> <li>• An RDF-based metadata record describing the new version of the data and the research methodology. This also includes relationships between the new version of the data, metadata, Researcher C along with Researchers A and B, as well as the source data and the project record (items 1 and 4 in use case 2)</li> </ul> <p>So, the URL of the new version becomes: <a href="http://www.domain.com/resoure/metadata/1/version2136">http://www.domain.com/resoure/metadata/1/version2136</a> which has links to the previous version, Researchers A, B and C, the project record, and the new version of the data.</p> <p>Note: Improve SOAP/REST API to handle deposit, edit and query final research data outputs.</p>

#### Use Case 4 - Generate final data output for fedora storage in "Cool" URL format

Title	Generate final data output for fedora storage in "Cool" URL format
Primary Actor	Researcher
Scope	
Level	
Story	<p>The research project is complete and has produced some final data that needs to be stored in Fedora. Notably, the final data has been produced from the interim data mentioned in Use case 3. The items to be stored in Fedora are:</p> <ul style="list-style-type: none"> <li>• A copy of the data</li> <li>• An RDF-based metadata record describing the new data and the research methodology. This will include <ul style="list-style-type: none"> <li>◦ Relationship between the metadata record and the version 2 of the interim data result created in Use case 3</li> <li>◦ Relationships between the metadata record, the project record and the researchers records</li> <li>◦ Relationships with any external resources, such as related publications and datasets</li> </ul> </li> </ul> <p>The URLs of the final data output:</p> <p>Metadata: <a href="http://www.domain.com/resoure/metadata/2137">http://www.domain.com/resoure/metadata/2137</a></p> <p>Data: <a href="http://www.domain.com/resoure/data/2138">http://www.domain.com/resoure/data/2138</a></p> <p>Note: Improve SOAP/REST API to handle deposit, edit and query final research data outputs.</p>

#### Use Case 5 - Updating/Editing multiple fedora records

Title	Updating/Editing multiple fedora records
Primary Actor	Researcher
Scope	
Level	
Story	<p>Researcher A is interested in editing multiple Fedora records. Using a SPARQL query or simple search the researcher has the ability to locate and update metadata fields for multiple fedora records. This is of particular interest for large collections of related objects that require periodic updates.</p> <p>Note: Improve SOAP/REST API to handle deposit, edit and query final research data outputs.</p> <ul style="list-style-type: none"> <li>• Related Use Case- <a href="https://wiki.duraspace.org/display/FF/Use+Case%3A+Updating+metadata+fields+of+multiple+objects139">https://wiki.duraspace.org/display/FF/Use+Case%3A+Updating+metadata+fields+of+multiple+objects139</a></li> </ul>

#### Use Case 6 - Viewing/exporting usage statistics about fedora records

Title	Viewing/exporting usage statistics about fedora records
-------	---

Primary Actor	Researcher, Faculty/School/Department
Scope	
Level	
Story	<p>Researcher A is interested in a report on the following statistics about his or her records.</p> <ul style="list-style-type: none"> <li>• total number of records he or she has deposited over a certain period of time</li> <li>• total number of times the records have been accessed over a certain period of time;</li> <li>• total number of the times the associated attachments (datastreams) have been accessed over a certain period of time;</li> <li>• geo-location/region from where the records and the attachments have been accessed.</li> </ul> <p>Researcher A uses the Fedora SOAP or REST API to request the above stats from Fedora.</p> <p>Researcher A's Faculty/School/Department is interested in a report on the following statistics.</p> <ul style="list-style-type: none"> <li>• total number of records deposited by its affiliates over a certain period of time;</li> <li>• total number of times the records have been accessed over a certain period of time;</li> <li>• total number of the times the associated attachments (datastreams) have been accessed over a certain period of time;</li> <li>• geo-location/region from where the records and the attachments have been accessed.</li> </ul> <p>Researcher A's Faculty/School/Department uses a Web-based application that integrates the Fedora SOAP or REST API to produce these stats.</p>

## Other Use Cases of Interest

### 1. [Updating Metadata of Multiple Objects](#)