How Fedora Data Streams are Presented to the Researcher

Researchers interact with Fedora in several ways:

- The main Spartan Archive page is generated from a Fedora data stream within the msu-uahc:SpartanArchive object via an XSL transformation.
- Each primary collection page is generated from the Fedora object corresponding to that collection.
- While the detail pages (for the data based collections) are generated by Java from a database, the data definition popups are generated from data streams associated with the appropriate instance of the collection.

As described in *Spartan Archive Fedora Objects and Data Streams: Summary and Examples* the msu-uahc:SpartanArchives object contains a data stream called 'source.' That data stream contains an xml representation of each office and the collections that belong to that office. This includes the name of the collection, limited metadata and the expected schedule of deliveries. This is rendered via an xsl transform with a template located in the xsl data stream.

The main page contains links to each of collection’s main page. These pages are again generated through an xsl transform using the collections DublinCore data stream and the associated dcXSL data stream. There is only one copy of the dcXSL data stream for the data based collections and that is stored in msu-uahc:CDTransform. It is referenced by each collection object.

Each collection page contains links to instances of that collection. In the case of the data based collections these are generated via the Java servlet based backend and a set of jsp pages. The data definition popups are read from Fedora (by the servlet) and provided to the query page. The pages that these links address are all generated from Fedora data streams.

The data definition popups are obtained from the source data streams within each instance object. However there is only one copy of each. (The theory being that the data definitions which comprise the user guide are valid across all instances.) They are located in objects named msu-uahc:RG-CollectionName (where RG is the report group and CollectionName is the name of the collection. E.g. msu-uahc:UA.6.7-StudentDirectory), and msu-uahc:DDTransform. Each instance object references the data streams from these standard objects.