Fedora Objects for Spartan Archives

There are 3 types of objects in the Spartan Archives Fedora repository:

- The base object which links all of the collections in the archive together.
- A collection object for each collection in the repository.
- An instance object for each instance of each collection.

Each of these objects are described below. Samples of each data source are attached at the end.

**Spartan Archives (Base Object)**

This is the organizing object for the repository. It maintains links to the repositories component collections and information to support queries and ingest.

**PID:** uahc:SpartanArchives

**Data Streams:**

**Source:**

XML file with an entry for each collection. Contains information on each collection and lists each instance available in the repository.

**XSL:**

XSLT file that translates the Source XML file to the welcome screen for the Spartan Archives web presence.

**Schedule:**

XML file with the dates when each semester or year’s ingests are due and when they are overdue. This has the rule for each and annual ingest. Each collection maintains a information about the periods in which an ingestion is expected.

**Collection Objects**

At this point there are 4 collection objects:

- Academic Programs (PID: uahc:AcademicPrograms)
- Course Descriptions (PID: uahc:CourseDescriptions)
- Course Schedules (PID: uahc:CourseSchedules)
- Student Directory (PID: uahc:StudentDirectory)

Each collection contains information about the data collected (definitions).
Data Streams:

Source:

XML based data dictionary

XSL:

XSLT file that translates the Source XML file to the user guide format.

**Instance Objects:**

Each collection consists of multiple instances. There is one instance for each ingest from the collection’s source system. Each instance contains the instance metadata and the event data associated with that instance.

Each instance is named with the initials of its collection and its period. For example:

- uahc:AP2011 for the 2011 Academic Programs
- uahc:CD2011 for the 2011 Course Descriptions
- uahc:CSSS11 for the Spring Semester 2011 Schedule of Courses
- uahc:SDFS11 for the Fall Semester 2011 Student Directory.

Each event includes the type, the date, and (if appropriate) the result. Events include:

- Transfer: when the source file is collected from the FTP site and moved to quarantine.
- Scan: when the file is scanned for viruses.
- Checksum: when the checksum is validated
- Approval: when the Spartan Archives manager approves ingest of the source file.
- Ingest: when the file is added to the repository.

Data Streams:

Premis (or other selected metadata type):

The instance metadata.

Events:

An XML file with the events associated with the instance.
<collections>
<collection>
<title>Academic Programs</title>
<pid>uahc:AP00001</pid>
<creator>MSU Office of the Registrar</creator>
<lastUpdate>July 16, 2011</lastUpdate>
<periodCovered>
<start>2011-2012</start>
</periodCovered>
<description>This collection consists of each year's academic programs catalog. This is updated annually in July.</description>
?type>ap</type>
<instances>
<instance>
<key>2011-2012</key>
<label>Academic Year 2011-2012</label>
</instance>
</instances>
</collection>
<collection>
<title>Course Descriptions</title>
<pid>uahc:CD00001</pid>
<creator>MSU Office of the Registrar</creator>
<lastUpdate>August 26, 2011</lastUpdate>
<periodCovered>
<start>1992</start>
<end>2012</end>
</periodCovered>
<description>This collection consists of each year's course descriptions. A new set is collected every year.</description>
?type>cd</type>
<instances>
<instance>
<key>1992</key>
<label>1992</label>
</instance>
</instances>
</collection>
</collections>
uahc:SpartanArchive- XSL

<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:template match="/">
    <html>
      <head>
        <title>Spartan Archives</title>
        <style type="text/css">
          body{
            font-family: Helvetica, Arial, sans-serif;
            font-size: 12px;
          }
          .title{
            text-align: center;
            padding-bottom:5px;
            line-height:80%
          }
          #content{
            margin-left:80px;
            padding-bottom: 10px;
          }
          #content h4{
            font-size:90%
          }
          .item{
            font-size: 120%;
            font-weight: bold;
            text-decoration: underline;
            padding-bottom: 5px;
          }
          .collection{
            padding-bottom:15px;
          }
          .key{
            font-weight: bold;
          }
          .value{
            font-weight: lighter;
          }
        </style>
      </head>
      <body>
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Michigan State University's Home for Digital Preservation

Collections

<xsl:apply-templates select="/collections/collection"/>

</div>
</body>
</html>

<xsl:template match="collection">
<div class="collection">
<div class="item">
<a href="/SAQuery/SACollection?type={type}">
<xsl:apply-templates select="title"/>
</a>
</div>
<div>
<span class="key">Creator: </span>
<xsl:value-of select="creator"/>
</div>
<div>
<span class="key">Last Updated: </span>
<xsl:value-of select="lastUpdate"/>
</div>
<div>
<span class="key">Period Covered: </span>
<xsl:value-of select="periodCovered/start"/>
<xsl:apply-templates select="periodCovered/end"/>
</div>
<div>
<span class="key">Description: </span>
<xsl:value-of select="description"/>
</div>
</div>
</xsl:template>

<xsl:template match="start">
<xsl:value-of select="."/>
</xsl:template>
<xsl:template match="end">
  <xsl:text>to </xsl:text>
  <xsl:value-of select="."/>
</xsl:template>
<xsl:template match="overview">
  <xsl:value-of select="."/>
</xsl:template>
<xsl:template match="name">
  <xsl:value-of select="."/>
</xsl:template>
<xsl:template match="definition">
  <xsl:value-of select="."/>
</xsl:template>
<xsl:template match="usage">
  <xsl:value-of select="."/>
</xsl:template>
<xsl:template match="creator">
  <xsl:value-of select="."/>
</xsl:template>
</xsl:stylesheet>

uahc:SpartanArchive- Schedule

<ingestSchedules>
  <semester>
    <period key="ss" name="Spring Semester">
      <expectedDate>1/15</expectedDate>
      <alarmDate>2/15</alarmDate>
    </period>
    <period key="us" name="Summer Semester">
      <expectedDate>6/15</expectedDate>
      <alarmDate>7/15</alarmDate>
    </period>
    <period key="fs" name="Fall Semester">
      <expectedDate>9/15</expectedDate>
      <alarmDate>10/15</alarmDate>
    </period>
  </semester>
  <year>
    <period name="year">
      <expectedDate>6/15</expectedDate>
      <alarmDate>7/15</alarmDate>
    </period>
  </year>
</ingestSchedules>
<collection>
  <title>Schedule of Courses</title>
  <creator>MSU Office of the Registrar</creator>
  <lastUpdate>August 26, 2011</lastUpdate>
  <periodCovered>
    <start>Fall 2003</start>
    <end>Fall 2011</end>
  </periodCovered>
  <description>This collection consists of each semester's schedule of courses which consists of information about each class offered. A new set is collected every semester.</description>
  <instances>
    <instance>
      <key>FS03</key>
      <label>Fall 2003</label>
    </instance>
    <instance>
      <key>SS04</key>
      <label>Spring 2004</label>
    </instance>
    <instance>
      <key>US04</key>
      <label>Summer 2004</label>
    </instance>
  </instances>
</collection>

uahc:CourseSchedule – XSL

<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:template match="/">
    <xsl:variable name="targetURL">
      <xsl:choose>
        <xsl:otherwise>http://localhost:8080/GeneralQuery/buildQuery.jsp</xsl:otherwise>
      </xsl:choose>
    </xsl:variable>
  </xsl:template>
</xsl:stylesheet>
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Michigan State University's Home for Digital Preservation
Current Collection: <span class="value"></span>

Creator: <span></span>

Last Updated: <span></span>

Period Covered: <span></span>

Description:

Search the complete collection or choose a period below.

Instances:

Instance:

Instance:

Instances:

Instance: