Special Handling for ETDs with audio or video

revised 8/16/05 plc

FCLA can accept ETDs with audio or video (A/V) content. The main ETD must be a PDF file, but supplementary files can be in audio or video formats. If the A/V files are small, they can be handled like any other supplementary file. If the A/V files are large, the graduate school may prefer to transfer the A/V files to FCLA on media (CD or DVD). Also, schools are encouraged to send two versions of A/V files: an archival master, and a streaming version for online delivery. This document contains more details about ETDs with A/V content.

Creating the ETD

If audio or video is included, the student should be encouraged to create and submit to the graduate school both an archival master and a streaming version for online access. For video, AVI is the recommended archival format, with MJPG (motion jpeg) for the video, and uncompressed pcm for the audio. The streaming version should use MPEG2 or MPEG4 compression. Other video codecs are accepted however; contact FCLA with questions about format.

The main PDF file must contain internal links to all associated supplementary files, regardless of whether they are on media or not. The form of the link should be a relative reference to the filename in either case. When the media is processed at FCLA, the embedded link will be updated with the true location of the file.

Creating the METS file

To create the METS file, follow the instructions in "METS Specification for SUL ETDs (Dublin Core)" or "METS Specification for SUL ETDs (MODS)".   Files FTPed to FCLA and files on media are treated identically except in the <METS:fileSec>.

For FTP files, the FLocat statement will follow the pattern
<METS:FLocat LOCTYPE="OTHER" OTHERLOCTYPE="SYSTEM"
xlink:href="[the filepath (relative to the METS xml file) and filename of the file]"/>

For files on media, the FLocat statement will follow the pattern
<METS:FLocat LOCTYPE="OTHER" OTHERLOCTYPE="CD" xlink:href="[the name of the file on CD]"/>
or
<METS:FLocat LOCTYPE="OTHER" OTHERLOCTYPE="DVD" xlink:href="[the name of the file on DVD]"/>

The internal filename should also be written externally on the CD or DVD sent to FCLA.

If both streaming and archival versions of a file are included, it is important to flag the archival version as being for the archive only. This is done a USE="archiveonly" attribute to the METS:Flocat element. For example:

<METS:FLocat LOCTYPE="OTHER" OTHERLOCTYPE="CD"
xlink:href="bolton/video1" USE="archiveonly"/>

If the file is to be playable online, omit the USE attribute.

Sample METS file

See http://palmm.fcla.edu/strucmeta/metsETDexample2.xml

This sample METS file is for an ETD in three parts:
1) a PDF thesis project description delivered to FCLA via FTP; the PDF contains an embedded link pointing to a streaming copy of a video movie file (pagano_p.mp4);
2) a master copy of the video movie in MOV format (pagano_p.mov), delivered on DVD;
3) a streaming copy of the video movie in MP4 format (pagano_p.mp4) delivered on DVD.

Sending the package

Normally, an ETD package consists of a METS file and one or more content files comprising the ETD, which are FTPed to FCLA in a single directory. If one or more files of an ETD are on media, a package still must be FTPed to FCLA. The package should contain the METS file, the main PDF, and any supplementary ETD files that are not on media. Supplementary files on media can be sent to FCLA asynchronously using any delivery mechanism such as (UF) campus mail, U.S. mail, UPS, etc.