Systems / DLC Update

September 30th, 2008

General Discussion

- Networking Issues
  - UFDC Storage Space and Backup
  - Disk space monitoring service (linux and windows boxes)
  - New hard drive for greenstone production
  - Tivoli vs. Amazon solution

Documentation

- RSS Feed for UFDC news
  - http://www.uflib.ufl.edu/ufdc2/rss/ufdc_news_rss.xml

- Unified Importer Documentation (Data Dictionary)
  - Available from http://www.uflib.ufl.edu/digital/development

- MODS Elements – As Utilized by UFDC
  - Available from http://www.uflib.ufl.edu/digital/development
  - Available from http://www.uflib.ufl.edu/ufdc2/technical/Metadata/metadata.htm

Released to Production

- UFDC Web (*Version 2.5.2d – 9/19/2008*)
  - Item Viewer
    1. All item-specific information is pulled from the METS file, rather than the database, with the exception of the following
       1. *AccessMethod* and *Link* - used to support complete resources in other institution's DLMS or websites
       2. *TextSearchable* flag
       3. Local URI for the METS file and digital resource
    2. Moved the seperate metadata links under the citation viewer into one link (Metadata) with description of metadata types
    3. Quick links to each metadata format are added into the left navigation bar for internal users
  - An IP lookup is now performed to determine which users are internal
  - Completed change to pull browses from the UFDC database directly
    1. Institutional *New Items* and *All Items* browses
  - Database
    1. Add Main Thumbnail and Main Image (for slideshows, etc..)
    2. Removed unused tables and stored procedures
    3. Renamed all authority tables *Auth_* (i.e. *UFDC_Person* was renamed to *Auth_Person*)
    4. Updated database diagram is available online.
  - Removed last level of IP address in recent searches in admin screen

- UFDC Web (*Version 2.5.1 – 9/5/2008*)
  - Changed browses to be pulled from the UFDC database directly, rather than through the Greenstone collection build process

        1. Collection Group *New Items* and *All Items* browses
        2. Collection *New Items* and *All Items* browses
        3. SubCollection *New Items* and *All Items* browses
    - Item Count
        1. Modified the item count screens to include the subcollections
        2. Admin item count includes additional FYTD numbers
    - Added new *Flash_Viewer* html generation to allow links to work in rotating flash files

Currently Under Test

- UFDC Bibliographic Package (METS Reader, Writer, Database)
    - Created new METS reader class
        - Implements *streams* and *XmlTextReader*
        - 225% faster than previous implementation
    - Updated UFDC schema
        - Changed controlled ufdc:Type list to include the types in the new tracking design
    - Made changes to METS
        - Notes added to individual creator in the METS header
    - Updated MODS elements to allow more detail, to allow
        - Name
            - Added type='conference'
            - Changed name à full_name
            - Added:
                - given_name
                - family_name
                - displayLabel (display_form)
                - affiliation
                - description
                - terms of address
        - Language
            - Added iso639-2b and rfc3066 codes
        - OriginInfo
            - Combined some existing elements to form this
            - Added marc and iso3166 codes to the publication place
            - Marc encoded publication dates
        - Abstract
            - Added
                - type
                - displayLabel
                - language
        - Note
            - Added the thirty different type elements (had only 'funding')
            - Added displayLabel
        - AccessCondition
            - Added:
                - type
                - language
                - displayLabel
        - Physical Description (of related item = "original")
            - Collapsed format (extent) into this new object
            - Added physical description notes
        - TitleInfo

    - Collapsed separate collections into this one object
    - Added attributes:
        - authority
        - displayLabel
    - Added subelements
        - subTitle (from |b in MARC)
        - partNumber (from |n in MARC)
        - partName (from |p in MARC)
- SubjectInfo
    - Reworked this structure
        - Abstract Subject_Info base class
        - Five classes extend Subject_Info base class
    - Added attribute:
        - language
    - Added subelements:
        - titleInfo
        - name
        - occupation
- Identifiers
    - Made type less controlled (didn't realize it had to be a selection from that drop-down list)
    - Added displayLabel
- Location
    - Now stores all the holding location information (from UFDC schema)
    - Now stores the PURL (from UFDC schema)
    - Includes other url, label, and display
    - Includes EAD name, EAD url
- Target Audience
    - Now implemented
- TypeOfResource
    - We have agreed upon a mapping from tracking types to MODS types
        - Book, Newspaper, Serial → text
        - Map → cartographic
        - Audio → sound recording
        - Photograph, Aerial → still image
        - Video → moving image
        - Artifact → three dimensional object
        - Archival → mixed material
    - Now using this field, as well as the more discrete ufdc:Type
- Part (of related item = "series")
    - Encode enumeration and chronology here (from ufdc schema eventually)
        - Enum1
        - Enum2
        - Enum3
        - Enum4
        - Year
        - Month
        - Day

Currently Under Development

- UFDC and Endeca and DLU01
    - Working on MARC XML reader class in UFDC Bibliographic Package
    - Refining mapping into Title, Name, Notes, and Subject Keywords

- UFDC Web
    - Correct audio-video downloads
    - Correct issue with links in dLOC for internal users
    - Allow users to override the internal designation
    - Pull 'Administrative New Items' (m=han) from Tracking Database (rather than UFDC)

- Tracking Database (GROVER 27113)
    - Add *Volume Title*, as separate from *Bib Title*, at the volume level (*CS_SingleVolume*)
        - Rationale:
            - Already exists in image class as *Sub Title*
            - Volume field is sometimes utilized as a volume title
            - Import issues
        - Characterisitics
            - Nonmandatory
            - Same length as title
        - During METS creation
            - If no volume title exists
                - Bib Title is used as title in METS
            - If volume titles exists
                - Volume title is used as title in METS
                - Bib Title maps to Series Title (or Uniform Title for newspapers)
    - Make *Material Type* a look-up table link from *CS_BibInfo*. This will also incorporate the values which previously were image-class specific entity types
        - Archival
        - Serial
        - Book
        - Photograph
        - Map
        - Audio
        - Video
        - Newspaper
    - Collapse or remove existing bib-level type-specific tables
        - *CS_TextClass_Bib*
            - Move *Edition*, *ISSN*, *ISBN* into *CS_BibInfo*
        - *CS_ImageClass_Bib*
        - *CS_Herbarium_Bib*
        - *CS_UndeterminedClass_Bib*
    - Collapse or remove existing volume-level type-specific tables
        - *CS_ImageClass_Volume*
            - Move *Subtitle* data into *Volume Title*
        - *CS_TextClass_Volume*
            - Remove *MarkupCharacters* and *Comments*
            - Rename *Section* → *Part* (per previous tracking discussions)
            - What remains can either remain a separate table (which represents how the single volume relates to the larger work characterized by the bib id), or take values and place them in *CS_SingleVolume*.
    - Convert all the identifiers in *CS_BibInfo* into an identifier/type lookup table structure.

        - LTQF
        - LTUF
        - OCLC
        - AlephBibNum
        - Electronic_OCLC
        - Electronic_Aleph
        - LCCN
        - SIP
        - EAD
        - ISSN
        - ISBN
    - Add Volume Title (or VID Title) to the tracking database application and make all of the material types display identically.
        - Material Type tab page in bib-level form should be called Volumes, and always display the volumes as rows, even when there is only one.

- UFDC Web
    - Implement new UFDC Bib Package and new MARC mapping
    - Database Changes
        - BibID to UFDC Group mapping (for Florida House)
    - Alternate searches (newspaper, map) (SPR-311 / GROVER 1776)
    - Map It! ... implement Google maps.. (Search results)
    - Metadata Issues
        - Hierarchy Geography should have a type attribute (SPR-309 / GROVER 1816)
    - Display Issues
        - Serial Information (SPR-367 / GROVER 1795)
    - Sorts
        - Sort by Country in Maps (SPR-319 / GROVER 1764)
        - New items sort by date added (SPR-317 / GROVER 1817)
        - Allow thumbnails to be sorted
    - Tree-type rollups
        - Search results (SPR-369 / GROVER 1856)
        - Collection hierarchy

Pending Work

- UFDC Builder
    - Implement new UFDC Bibliographic Package
    - Implement new UFDC Library
    - Re-implement RSS feeds (including last 20 added) and static pages

- UFDC Storage
    - JPEG2000
        - Replace zero-space JPEG2000s (about 320 affected items)
        - Check for JPEG2000s without attribute information (width, height, zoom-levels)

- UFDC Documentation

- Collection Work
    - Bryant – loaded without text
    - Treister

- Herbarium

Work in Queue

1) Fedora suitability testing and potential migration

2) UFDC Loader Issues
    a. Implement check for correctly encrypted GUID

3) Implement alternate JPEG2000 server solution (.NET / TileTech)