

Collection	Collection Type	Metadata Database Structure	Metadata Schema	Metadata Type	Connection to Discovery Tool
Special Collections Resource Center, Digital Assets Database	Texts & images	MS Access database	MODS/METSish	Descriptive; Administrative; Technical; Minimal structural metadata for texts	Metadata for images exported and delivered through Luna, in a minimally-automated batch process; Metadata for texts exported and delivered through DSpace
Scholarly Publications Repository (SPR), Citation Database & Institutional Repository	Texts (including journal articles, NCSU patents, etc.)	Access front-end (ODBC) to an Oracle backend. (Oracle will be migrated to MySQL)	Local	Citation database includes descriptive metadata only; DSpace includes administrative/technical metadata for the full text files.	Where full text content exists, the full text lives in DSpace. The citation database contains links to the full text content DSpace. DSpace metadata is Dublin Core, but user interface searching is on the Oracle citation database.
Design Library, Teaching Images	Images	2008 migration to VCat, FileMaker Pro database ( <a href="http://vcat.wordpress.com/">http://vcat.wordpress.com/</a> ) from a previously Oracle backend	VRA Core 4.0	Descriptive metadata only	Image metadata gets exported to Oracle to be indexed by and delivered through Luna
Digital Library Initiative, NC Architects Project	Texts & images	All metadata is created and stored in XML using Ephox EditLive!; Metadata creation templates are also created in EditLive! with XSLT. PHP scripts support building metadata record relationships.	Local	Mainly descriptive; XML files contain rights/credit information for images stored elsewhere (i.e. in Luna)	SOLR/Lucene
Special Collections Resource Center, Finding Aids	Finding aids	Combination of FileMaker Pro (for container lists) and NoteTab (for top level description, i.e. biographical/historical notes, etc.)	EAD	Mostly descriptive; Some administrative	HTML delivery
Electronic Theses & Dissertations	Texts	ETD-DB, MS Access & copy/paste out of DSpace (DC) into MARC	DC in Dspace; MARC in the catalog	Descriptive, administrative, technical in DSpace; Descriptive only in the catalog.	Dspace
NDIPP	GIS data	MySQL; Custom ESRI Arc Catalog toolbar; Python templating system; Chew & Spit, Metadata Processor from National Park Service	FGDC/Dublin Core	Descriptive, administrative, technical, preservation, rights	Dspace, locally developed GIS Lookup
Oral Histories	Oral Histories	MySQL; Transcripts handcoded in XML	Local	Descriptive and structural metadata (timestamps, etc.)	Local/home grown
Open Content Alliance	Texts & images	PHP harvest of MARCXML print records and then MarcEdit XSLT transform to create e-records	MARCXML/MARC	Descriptive metadata only	Catalog links to Internet Archive (we are not storing the files locally yet.)

### NCSU Metadata Challenges

1. Synchronizing our metadata creation datastores with our presentation layers.
2. Our tools suffice for initial metadata creation, but not in all cases do they truly support lifecycle management of the metadata.
3. The disparate ways in which the metadata is stored causes cross-searching problems; constant crosswalking is also problematic and results in data loss.
4. Managing relationships between digital objects across collections.
5. Digital preservation (as it relates to metadata), i.e. synchronization of metadata between preservation & presentation objects and storage of dynamic data (i.e. authorities).