From Microfilm to Digital Images: The National Digital Newspaper Program

ALAO TEDSIG 2012 Spring Workshop | May 11, 2012

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OHIO HISTORY

OHIO HISTORICAL SOCIETY

Agenda

- Background
- NDNP Training
- Technical Specifications & Cataloging Requirements
- NDNP-OH Project Workflow
- NDNP and the End User

Background

National Digital Newspaper Program

Funded by the National Endowment for the Humanities

Managed by the Library of Congress

Goals

- Preserve historic newspapers
- Provide increased access to historic newspapers
  - Keyword searchable
  - Freely available
  - No need to visit library or archives

NDNP in Ohio

First grant cycle: July 1, 2008 – June 30, 2010

- 14 papers from 11 counties
- 1880-1922
- Almost 110,000 pages

Second grant cycle: July 1, 2010 – August 31, 2012

- 26 papers from 21 counties (3 overlap from previous cycle)
- Focus on Civil War era (1845-1894)
- Over 100,000 pages

NDNP Training

Training

NDNP Annual Awardee Meetings

- Introduces project to new awardees
- Overview changes to project
- Returning awardees talk about their projects

NDNP Awardee Wiki and Listserv

- Documentation on all aspects of project
- Tips for pre-digitization and post-digitization processing and workflow
- Links to relevant resources

Training

meta | morphosis

- Film-to-digital institute hosted by the University of Kentucky
- Not required, but encouraged
- Covers everything from microfilm basics to technical specifications to vendor selection
- Solid background on all aspects of the project

Training

On-the-Job

- Open communication between all awardees
- Kick-off meeting at beginning of grant with digitization vendor
- Working closely with vendor to ensure project success
- Creation of internal workflow and instructional documents for NDNP-OH staff
- Updating processes as necessary given staff resources, time and experience

Technical Specifications and Cataloging Requirements

Technical Specifications

Digital Deliverables

- Scanned 300-400 dpi
- Three formats
  - Grayscale, uncompressed TIFF 6.0 images
  - Compressed JPEG2000 images
  - PDF with Hidden Text
- Accompanying structural and technical metadata
- OCR for all pages

Technical Specifications

Scanning

- Deskew images with a skew of greater than 3 degrees
- Crop to visible edge of page
- Capture grayscale preservation microfilm targets

OCR

- Conform to ALTO XML scheme
  - ALTO (**A**nalyzed **L**ayout and **T**ext **O**bject) is an XML Schema that details technical metadata for describing the layout and content of physical text resources
- Bounding box coordinate data
  - Each column is sectioned and coordinates are used to place words

ALTO XML File


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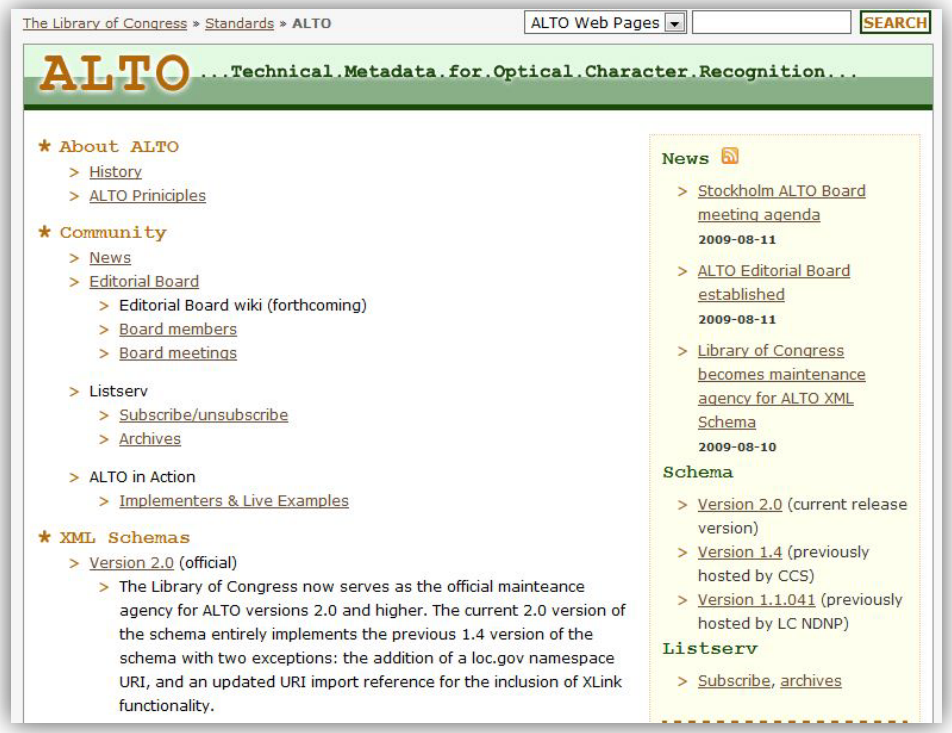
For More Information about ALTO…

International metadata standard

LC is governing body

www.loc.gov/standards/alto



Structural and Technical Metadata

METS (**M**etadata **E**ncoding and **T**ransmission **S**tandard) format preservation metadata

Structural metadata

- Relate pages to title, date and edition
- Sequence pages within issue or section
- Identify image and OCR files

Technical metadata to support functions of digital repository

Other metadata standards used include: MIX, PREMIS & MODS

Metadata Dictionary

Defines metadata elements and formats
General, title, page, reel level
Defines fields for metadata and collation files
Gather information from:

- MARC records on *Chronicling America*
- Microfilm itself

						ods:mods/ mods:note
Title Information						
LCCN	string	sn83031150 or 2007123234	Use canonical (normalized) form of LCCN for associated title bibliographic description. See	NR	M	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:newspaper:issue"]/mets:dmdSec[@ID="issueModsBib"]/mets:mdWrap/mets:xmlData/mods:mods/mods:relatedItem/mod
						ods:physicalDescription
Tech Target Label	string	35mm Grayscale Preservation Microfilm Target	Describe target scanned (calibration targets scanned at NDNP request or targets already extant in microfilm)	NR	M	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:dmdSec[@ID="techTargetModsBib"]/mets:mdWrap/mets:xmlData/mods:mods/mods:titleInfo/mods:title
Titles (on Reel)	string	National forum (Washington, D.C.) Washington	MARC 130, if present. Otherwise use MARC 245 $a. List multiple titles in repeating fields.	R	O	mets:mets[@TYPE="urn:library-of-congress:ndnp:mets:microfilmReel"]/mets:amdSec/techMD[@ID="reelTechMD"]/mets:mdWrap/mets:xml

METS Object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  xmlns:ndnp="http://www.loc.gov/ndnp" xmlns:premis="http://www.loc.gov/standards/premis"
  xmlns:mods="http://www.loc.gov/mods/v3" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xlink="http://www.w3.org/1999/xlink" xmlns:dsig="http://www.w3.org/2000/09/xmldsig#"
  xmlns="http://www.loc.gov/METS/" xsi:schemaLocation="http://www.loc.gov/METS/ ../schema/ndnpmets.v1-4.xsd
  http://www.loc.gov/mods/v3 ../schema/ndnpmods-3-0.xsd http://www.loc.gov/ndnp ../schema/ndnp.xsd
  http://www.loc.gov/standards/premis ../schema/object.xsd http://www.loc.gov/mix/
  http://www.loc.gov/standards/mix/mix.xsd http://www.w3.org/2000/09/xmldsig# http://www.w3.org/TR/xmldsig-
  core/xmldsig-core-schema.xsd">
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              Riv</mods:note>
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Embedding Metadata

TIFF Tags

JP2 XML Box

PDF/A XMP

TIFF Tag #:	269
TIFF Tag Name:	DocumentName
TIFF Type:	ASCII
Notes:	Use Microfilm reel # (barcode). If not converted from microfilm, use normalized LCCN.
TIFF Tag #:	42016
TIFF Tag Name:	ImageUniqueID
Z39.87 #:	6.2.1
Z39.87 Name:	UniqueImageID
TIFF Type:	ASCII

Metadata Collection – Reel-Level

Pre-Digitization Inspection

- Record data values for reels, issues, pages
  - Start and end dates
  - Page dimensions
  - Density readings
  - Resolution
  - Guide to contents
  - Reduction ratio
  - Etc.
- Vendor-created spreadsheet

	A	B	C	D	E	F	G	H	I
1	Unique Name	Title	Location	LCCN	Reel Number	Start Date	End Date	Date Created	Issue/Edition Pattern
2		Hillsboro News Herald	Hillsboro, Ohio	sn85038161		1886-04-07	1888-05-31	00237289432	Weekly
3		Hillsboro News Herald	Hillsboro, Ohio	sn85038161		1888-06-07	1890-08-28	00237289420	Weekly
4		Hillsboro News Herald	Hillsboro, Ohio	sn85038161		1890-09-04	1892-10-27	00237289419	Weekly
5		Hillsboro News Herald	Hillsboro, Ohio	sn85038161		1892-11-03	1894-12-27	00237289407	Weekly
6		Hillsboro News Herald	Hillsboro, Ohio	sn85038161		1895-01-03	1897-02-25	00237289341	Weekly
7		Hillsboro News Herald	Hillsboro, Ohio	sn85038161		1897-03-04	1899-05-25	0023728933A	Weekly
8		Hillsboro News Herald	Hillsboro, Ohio	sn85038161		1899-06-01	1901-07-25	00237289328	Weekly
9		Hillsboro News Herald	Hillsboro, Ohio	sn85038161		1901-08-01	1905-10-26	00237289316	Weekly
10		Hillsboro News Herald	Hillsboro, Ohio	sn85038161		1905-11-02	1908-01-30	00237289304	Weekly
11		Hillsboro News Herald	Hillsboro, Ohio	sn85038161		1908-02-06	1910-04-28	00237289195	Weekly
12		Hillsboro News Herald	Hillsboro, Ohio	sn85038161		1910-05-05	1912-08-29	00237289183	Weekly
13		Hillsboro News Herald	Hillsboro, Ohio	sn85038161		1912-09-05	1914-12-31	00237289171	Weekly
14									
15		Democratic Banner	Mount Vernon, Ohio	sn88078751	00237289444	1912-06-04	1913-07-29	00237289444	Semiweekly
16									
17									
18									
19									
20									

AM	AN	AO	AP
Density Reading 9 Master	Density Reading 10 Master	Average Density Master	Dmin Master
0.88	0.83	0.851	0.26
0.94	0.82	0.941	0.28
0.8	0.76	0.757	0.25
0.77	0.95	0.82	0.13
0.81	0.92	0.814	0.22
0.92	0.94	0.8	0.27
0.94	1.03	0.915	0.2
0.82	0.78	0.864	0.24
0.92	0.91	0.992	0.2
0.89	1.09	0.874	0.14
1.1	1.11	0.943	0.24
0.89	0.81	0.875	0.08
0.81	0.85	0.85	0.23

Metadata Collection – Issue-Level

Collation

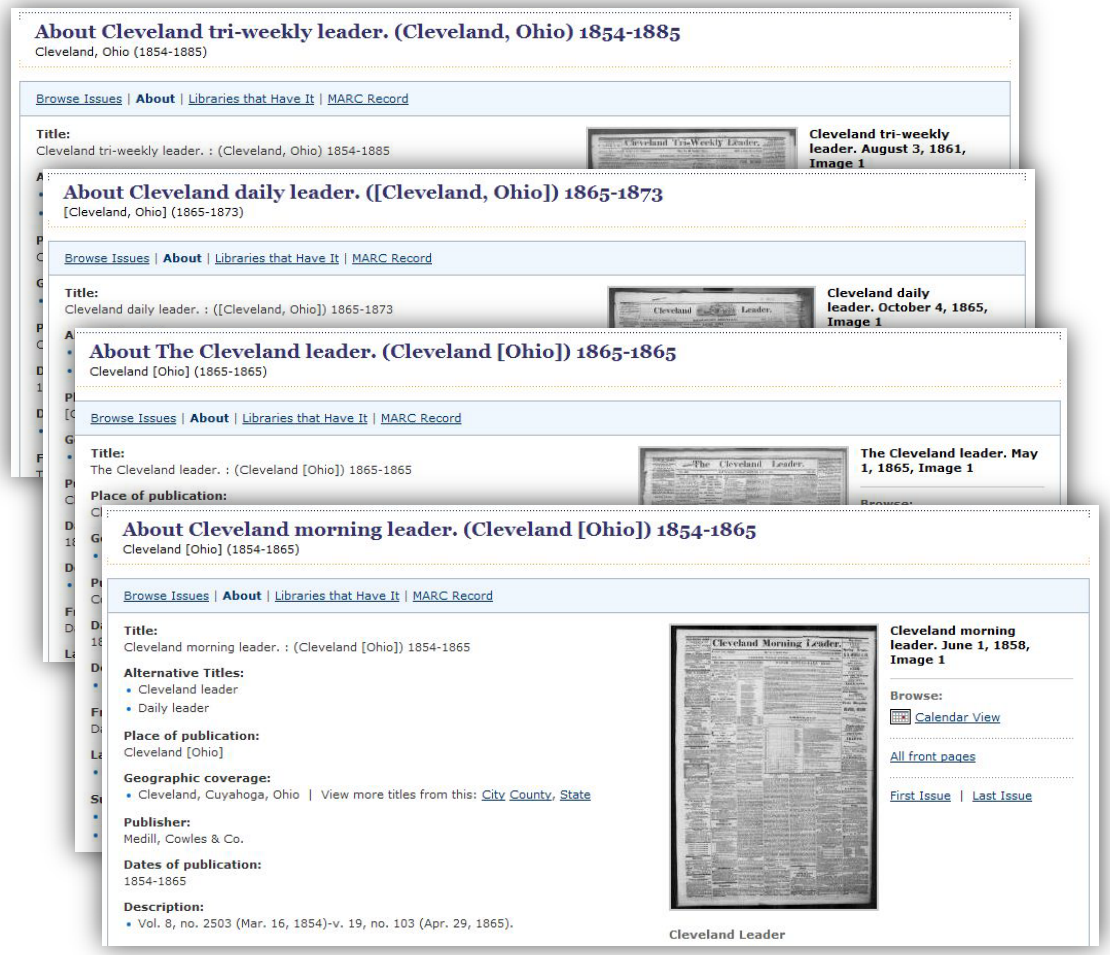
- Review use copies of selected microfilm reels
- Check for missing issues/pages, duplicate issues/pages and other abnormalities
- Vendor-created spreadsheet

	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Issue Date As Labeled	Volume Number	Issue Number	Edition Number	Edition Label	Page Count Published	Page Count Filmed	Missing Issue	Missing Page Nums	Duplicate Page Nums	Blocked Page Count	Delivered Page Count	Notes
190	1907-08-07	XV	307			8	8						
191	1907-08-08	XV	308			8	9			8	1		
192	1907-08-09	XV	309			8	9			1	1		
193	1907-08-10	XV	310			16	16						p. 5 mislabeled as p. 13
194	1907-08-12	XV	311			8	8						
195	1907-08-13	XV	312			8	8						
196	1907-08-14	XV	313			8	8						
197	1907-08-15	XV	314			8	8						
198	1907-08-16	XV	315			8	8						
199	1907-08-17	XV	316			16	16						
200	1907-08-19	XV	317			8	8						
201	1907-08-20	XV	318			8	8						
202	1907-08-21	XV	319			8	9			8	1		
203	1907-08-22	XV	320			8	9			1	1		
204	1907-08-23	XVI	8			8	8						
205	1907-08-24	XVI	9			16	16						
206	1907-08-26	XVI	10			8	8						
207	1907-08-27	XVI	11			8	8						
208	1907-08-28	XVI	12			8	8						
209	1907-08-29	XVI	13			8	8						
210	1907-08-30	XVI	14			8	8						
211	1907-08-31	XVI	15			16	16						
212	1907-09-02	XVI				8	0						
213	1907-09-03	XVI	16			8	8						
214	1907-09-04	XVI	17			8	8						
215	1907-09-05	XVI	18			8	8						
216	1907-09-06	XVI	19			8	8						
217	1907-09-07	XVI	20			16	27			1,2,3,9,10,11,12,13,14,15,16	11		First copies of pp. 9-16 are befor

Cataloging Requirements

Updated MARC record
CONSER-compliant
Accurate titles/LCCNs are extremely important!

- Digitized content "hangs" on preexisting catalog records on *Chronicling America*
- Ensures that each digitized issue is in the right place



Controlled Vocabulary

A. Lincoln, his last 24 hours / by W. Emerson Reck.

Author:	Reck, W. Emerson (Waldo Emerson), 1903-
Imprint:	Jefferson, N.C. : McFarland, c1987.
Description:	vii, 232 p. : ill. ; 24 cm.
Notes:	Includes index.
Bibliography:	Bibliography: p. 199-221.
Library of Congress Subjects:	Lincoln, Abraham, 1809-1865 -- Assassination. Presidents -- United States -- Biography.
ISBN:	0899502164 (alk. paper) :
OCLC Number:	ocm15109485

THE MAEION Q AILY M1RR( )R. PAGE?
FIRST
SECTION
fh
7-.
T08
H
VOLUME Xl NUMBER 273.
MARION, OHIO, SATURDATrW'UNE 3, 1911.
PRICE TWO OENT
V,
GARY TAKES ISSUE
WITH J, W, GATES
GOVERNMENT MAY
BRING CRIMlL ACTIONS
INDIAN PRINC '
HONOf KING GEORGE
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IN TRUST CASE
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Not for NDNP!

Titles, LCCNs and issue dates are controlled

Text in newspaper is full-text searchable

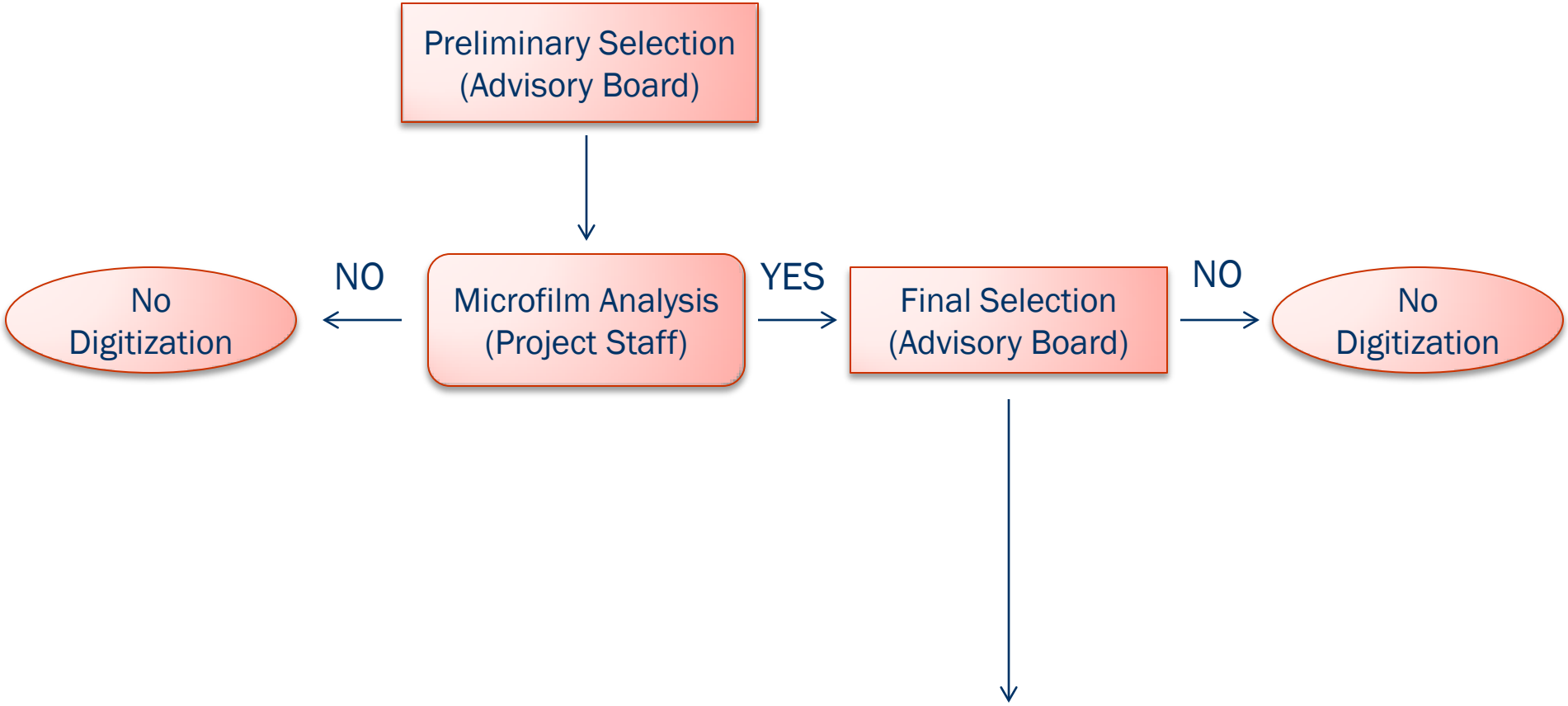
- Includes every word printed on page (and even some that aren't!)

No metadata field for relevant subject headings, article summaries or descriptions

Must rely on OCR engine to find information

NDNP-OH Project Workflow

Newspaper Selection and Analysis



Newspaper Selection

Advisory board

- Librarians, educators, curators, archivists, historians, etc.

Selection criteria

- Historical significance
- Geographical significance
- Chronological coverage

At least 1 paper from each OHIOLHA region (10,000 pages)

Represent as many Ohio voices as possible

Film to Vendor

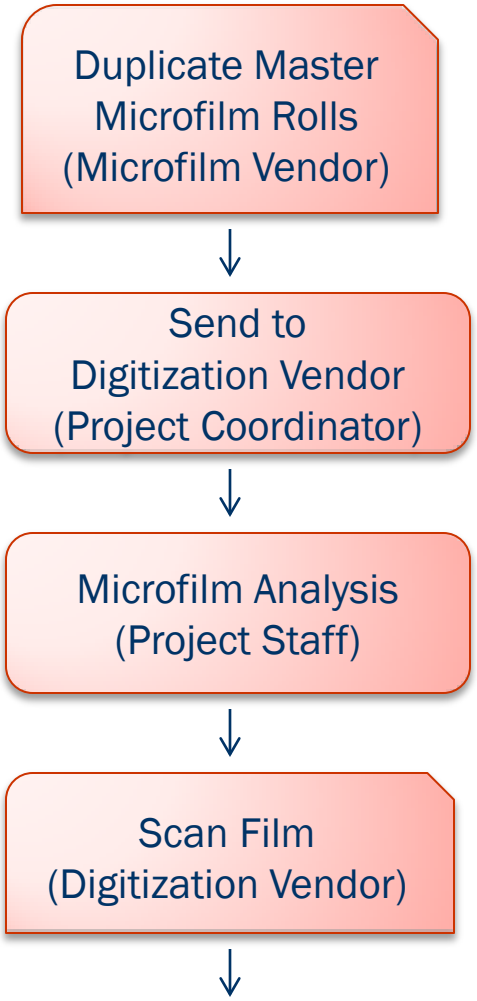
Collect data on master film

Master negative duplicated

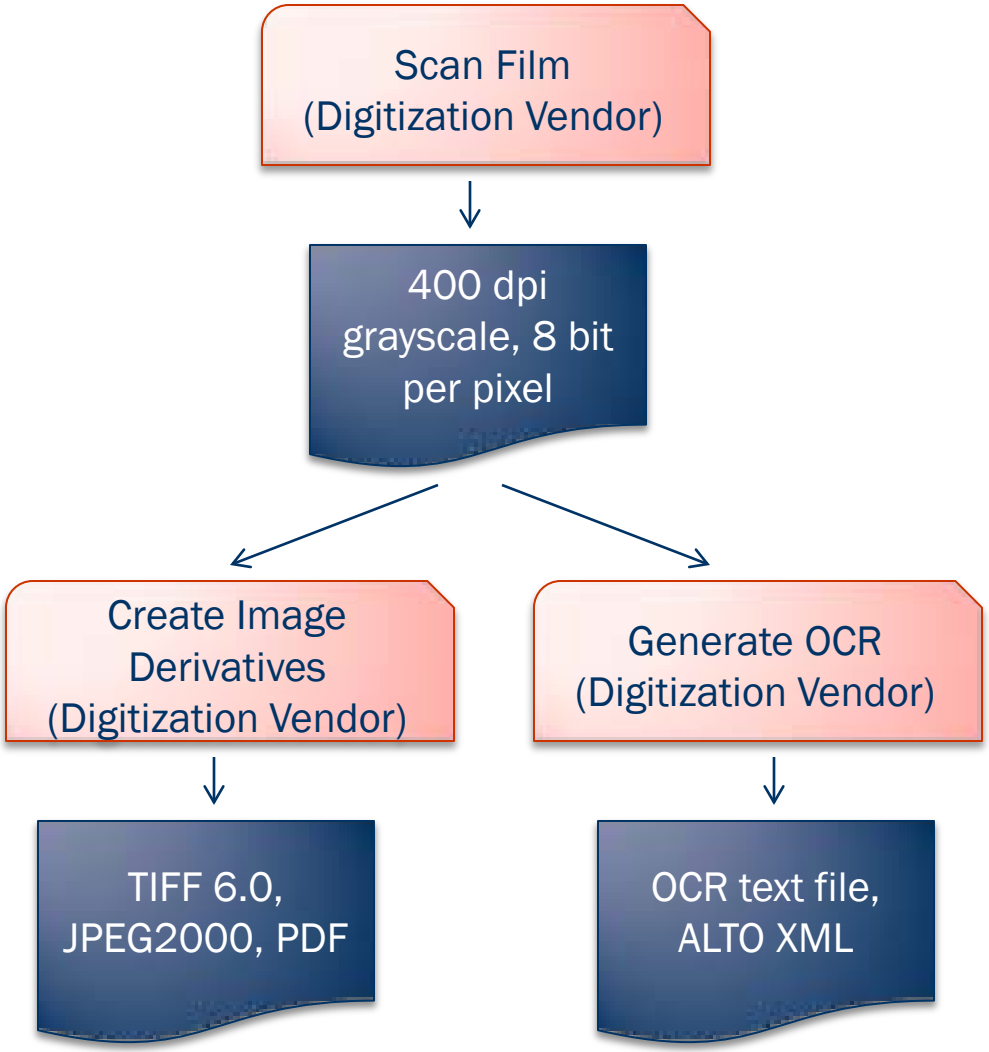
Collect data on duplicate film

Upload metadata spreadsheets to vendor-developed portal

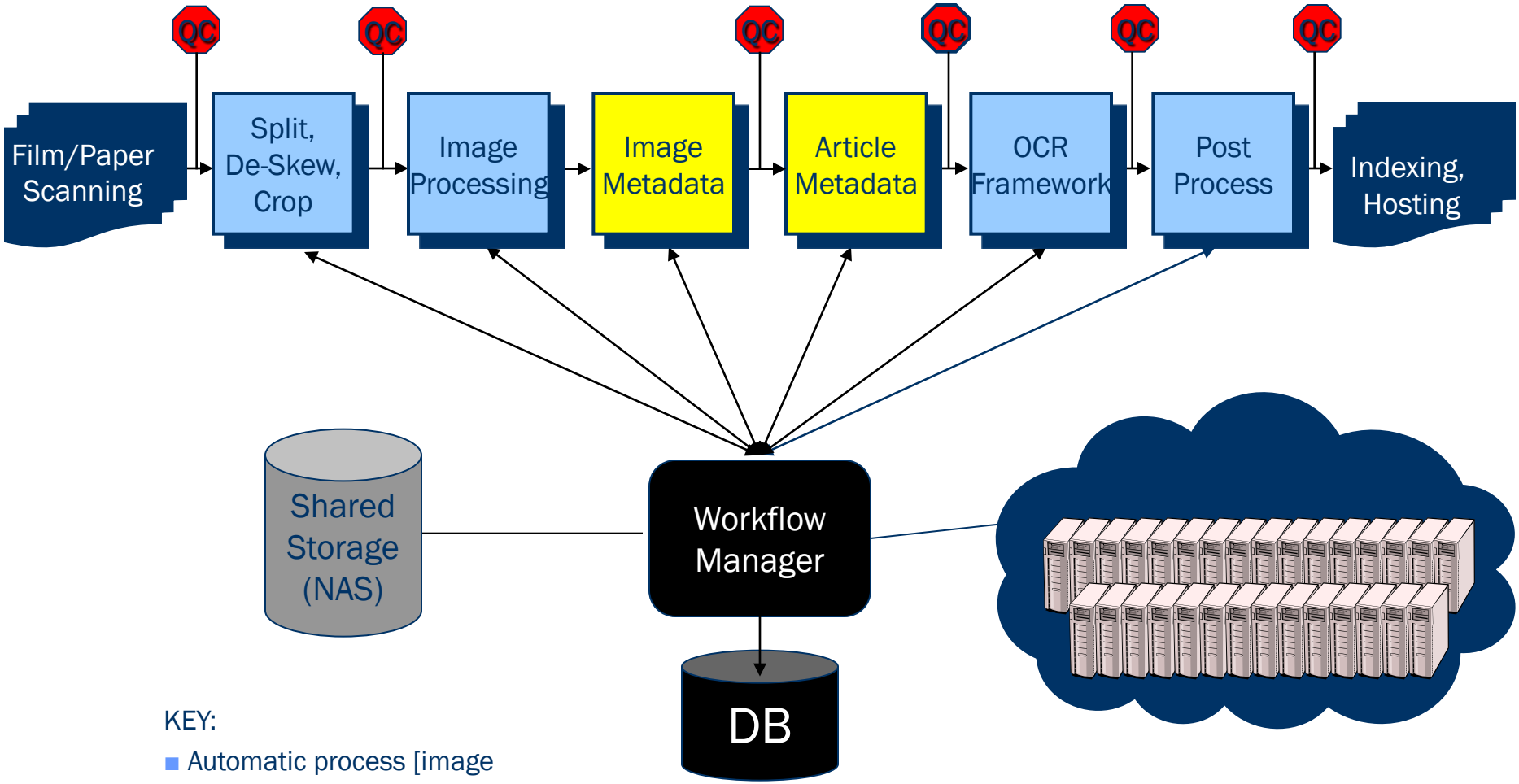
Forward silver-halide film to digitization vendor



Digitization



iArchives Digitization Workflow



KEY:

- Automatic process [image processing, OCR, ...]
- Manual process [image + article metadata]
- Quality Control

Validation and Inspection

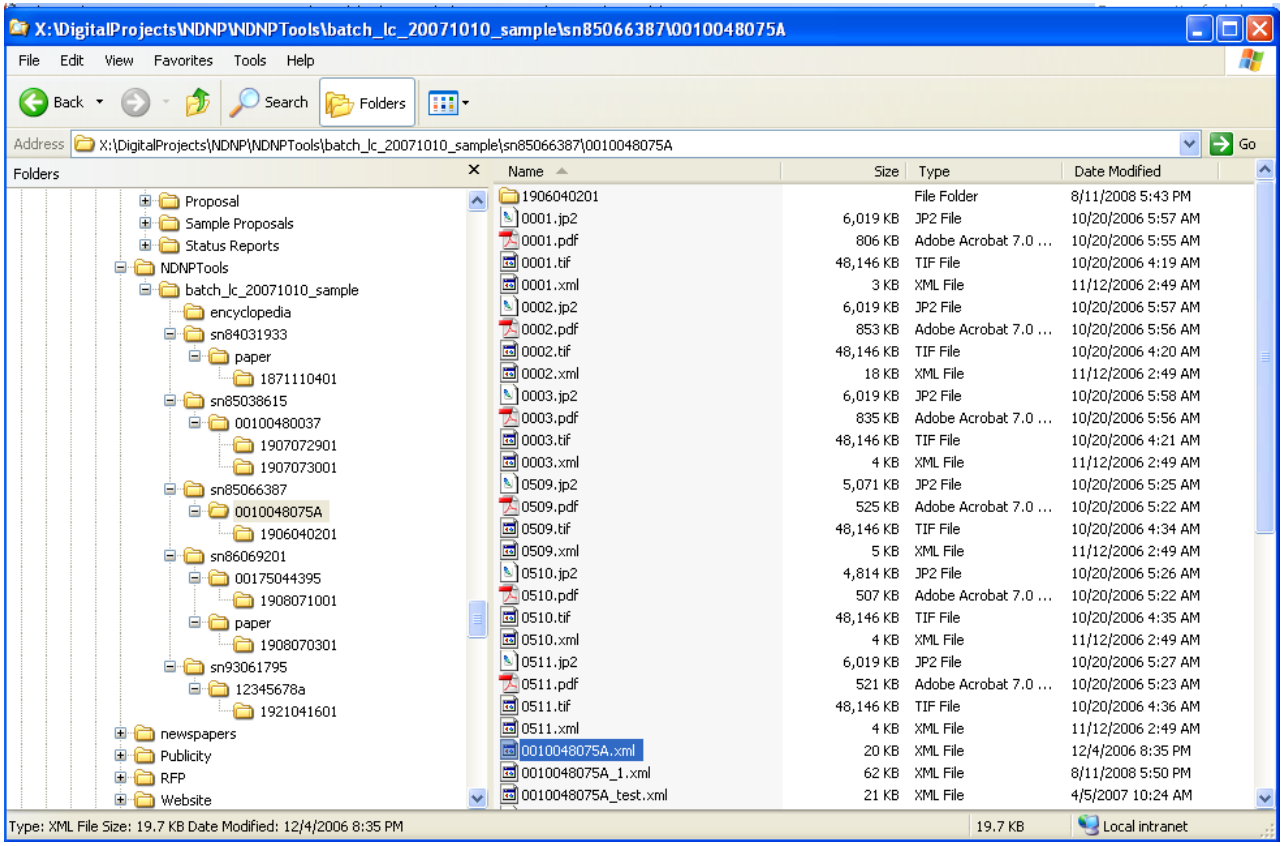
Verify and Review Quality of Product (Project Staff)

↓

Release deliverables to the Library of Congress (Project Coordinator)

Validation and Inspection

Check directory and file structure

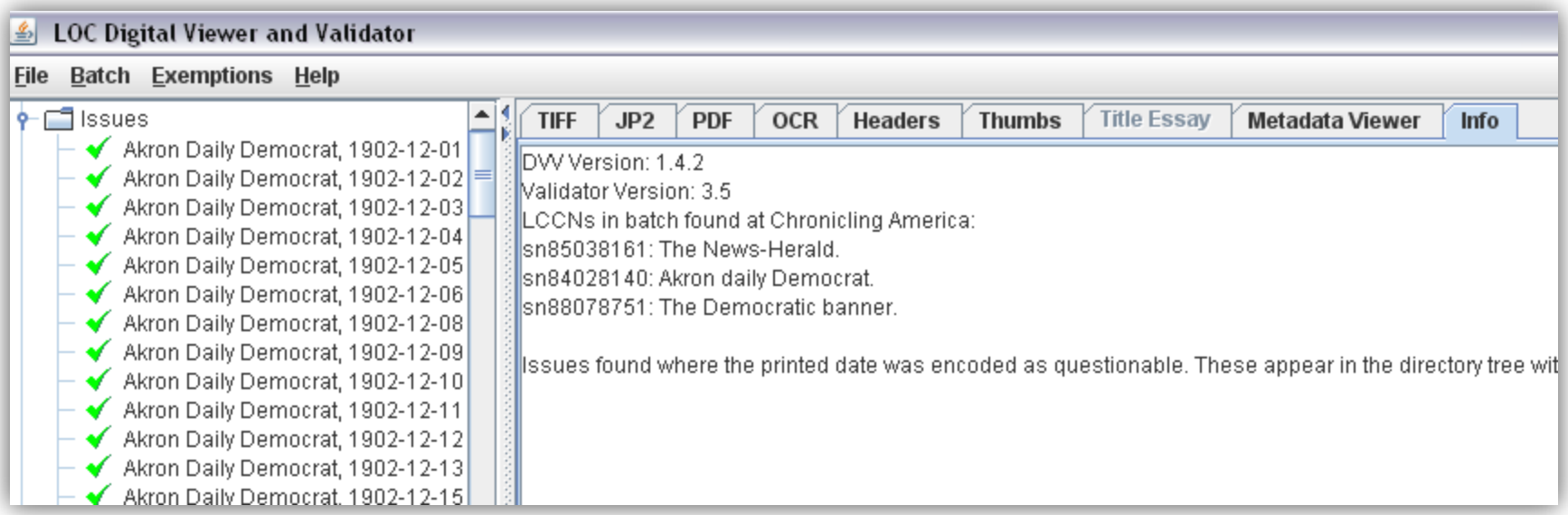


Validation and Inspection

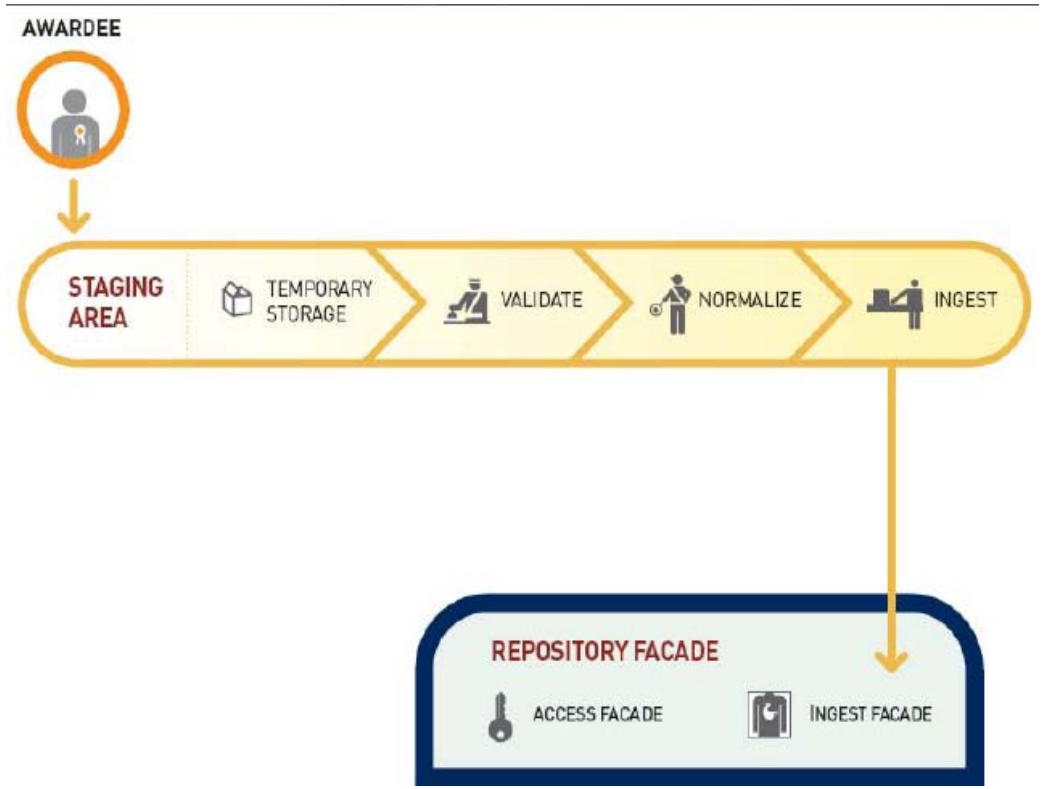
Adds technical metadata about images through validation

Perform verification using LC's Digital Viewer and Validator (DVV)

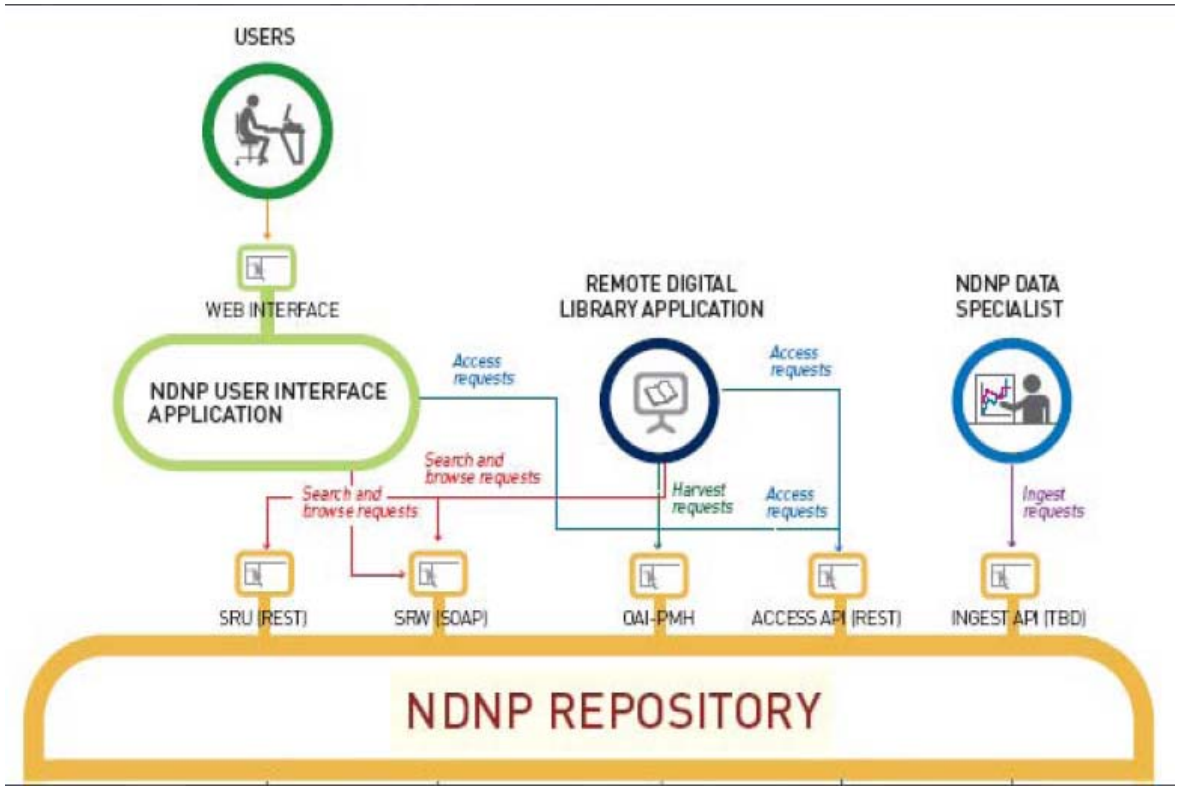
Spot check integrity of images, metadata and OCR



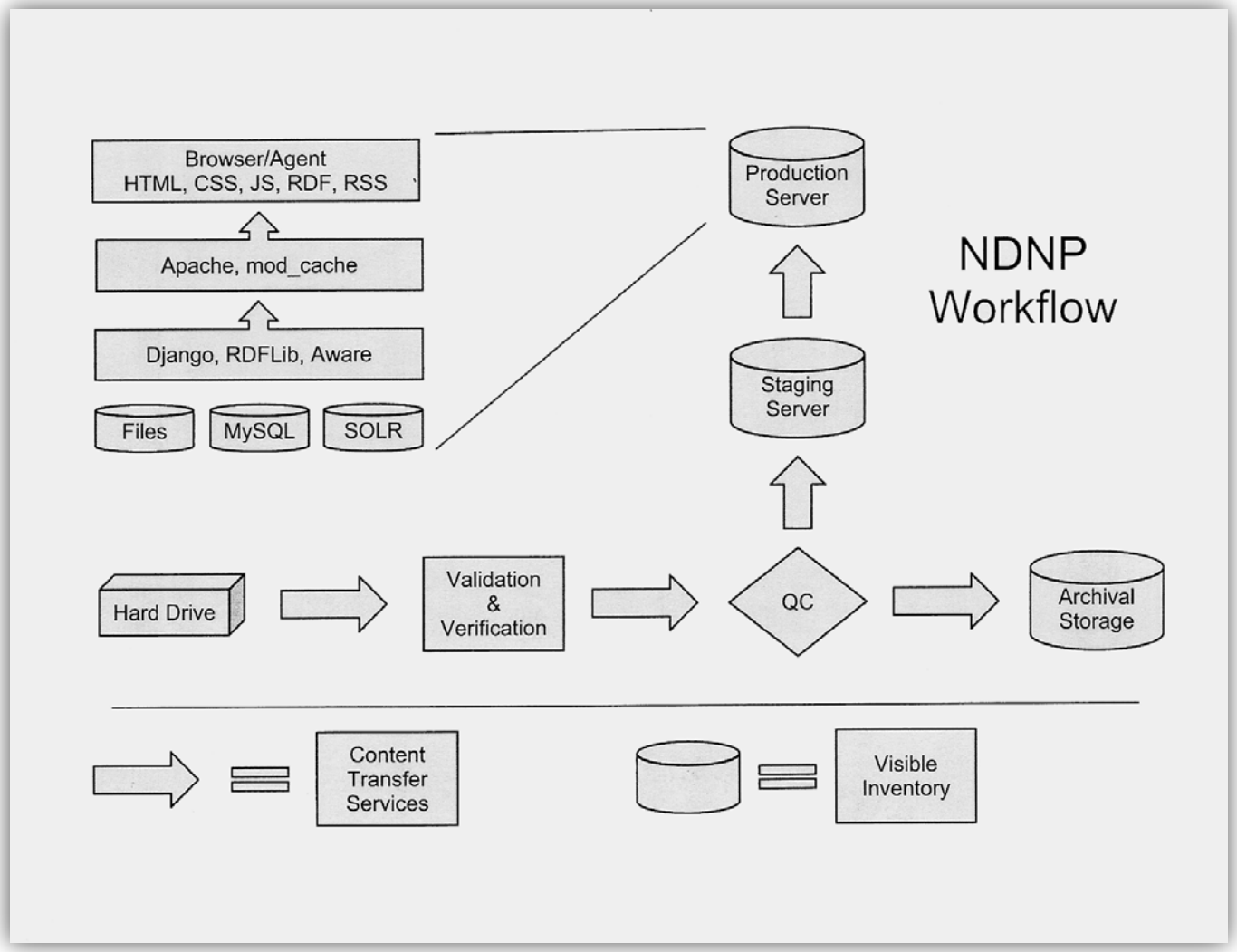
Repository Ingest



Chronicling America



Repository Ingest – Detailed View



NDNP and the End User

Chronicling America

Ohio Memory (CONTENTdm)

Chronicling America

NDNP's final product

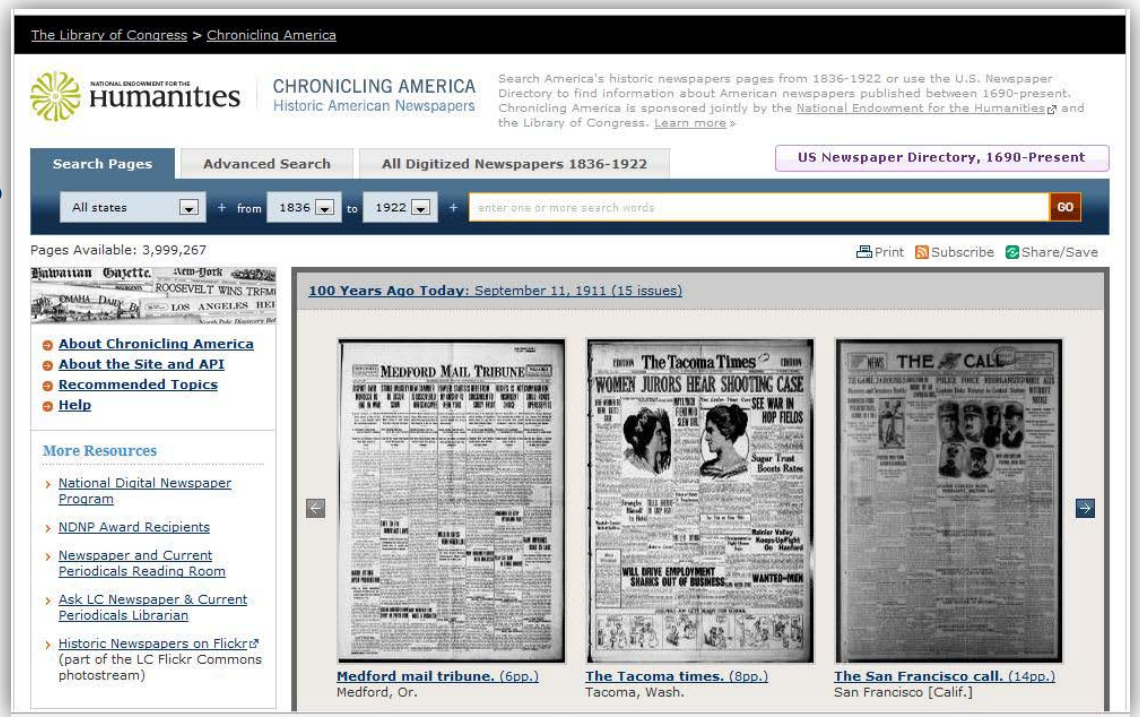
Hosted by the Library of Congress

Contains over 4 million images from 1836-1922

Over 700 papers

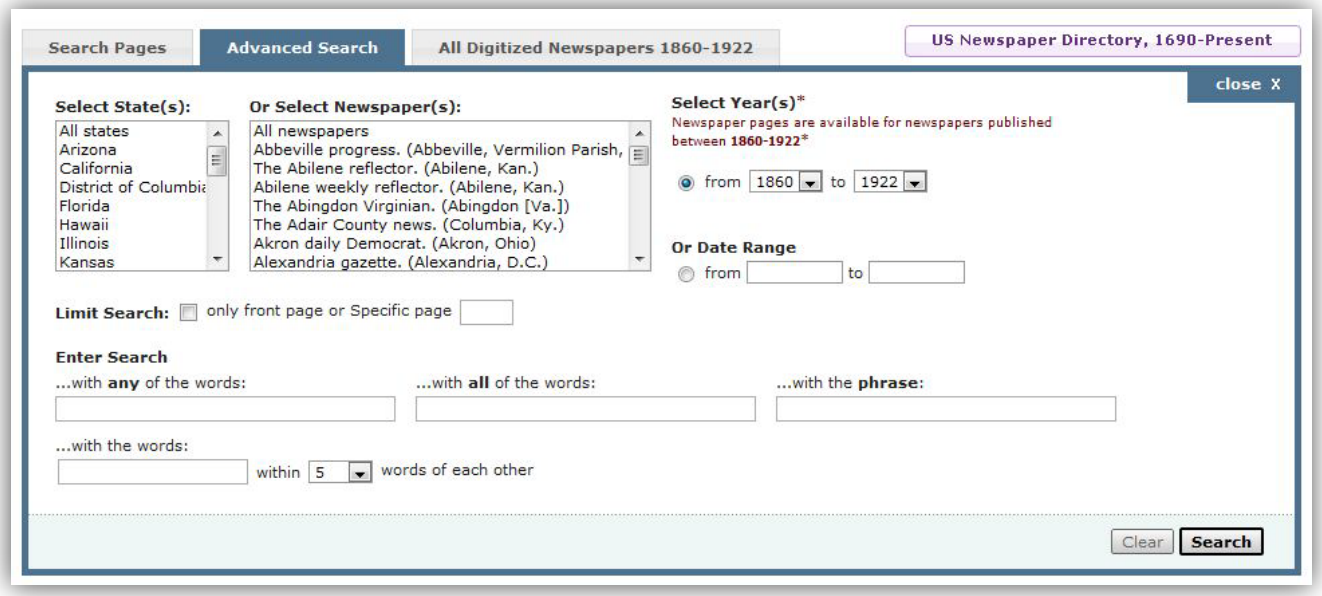
28 states (incl. D.C.)

Updated on rolling basis

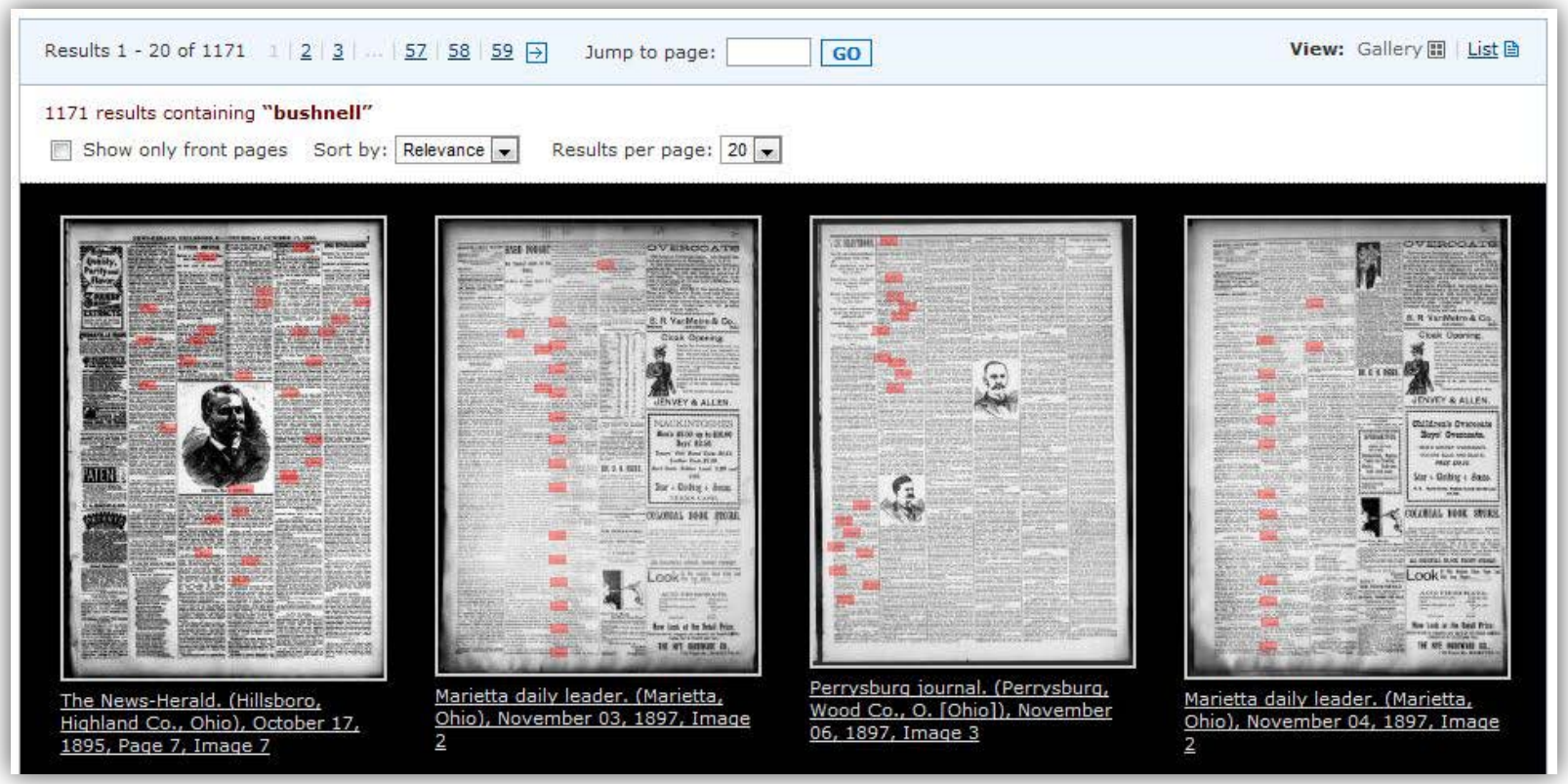


Chronicling America

Basic and Advanced Search Options



Chronicling America – Search Results



Chronicling America – Viewing An Image

Navigation Bar

View Options (Text, PDF)

Download

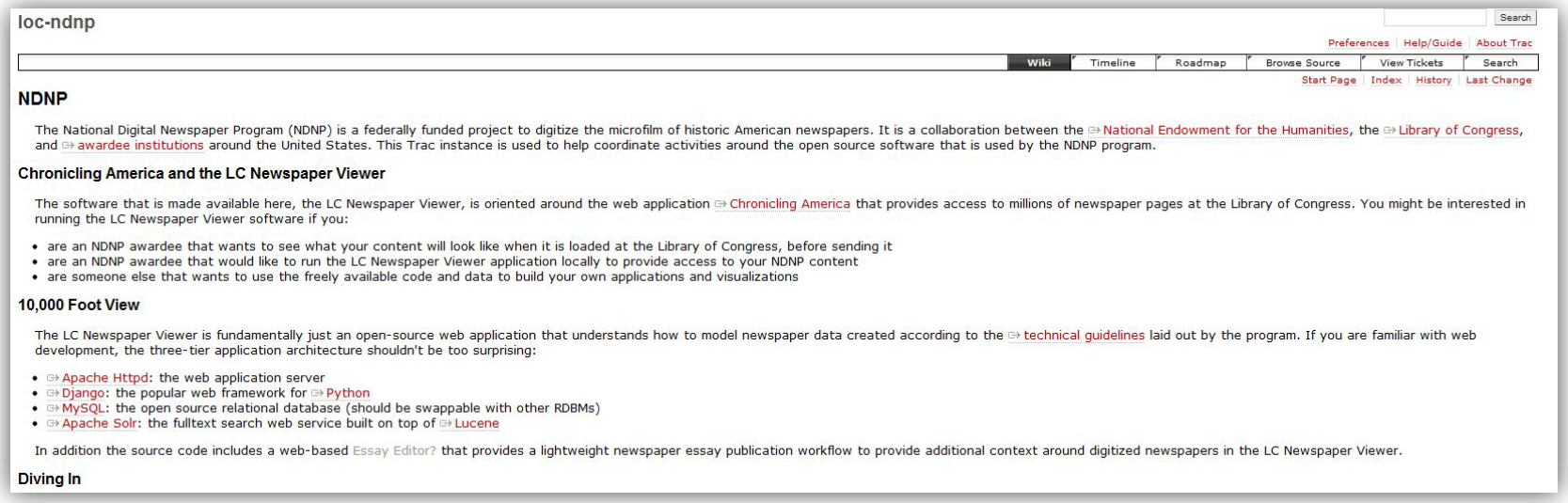
Zoom

Toggle Full Screen

Clip Image (Print)

For More Information and to Download the LC Newspaper Viewer….

http://sourceforge.net/apps/trac/loc-ndnp/



loc-ndnp

Search

Preferences | Help/Guide | About Trac

Wiki | Timeline | Roadmap | Browse Source | View Tickets | Search

Start Page | Index | History | Last Change

NDNP

The National Digital Newspaper Program (NDNP) is a federally funded project to digitize the microfilm of historic American newspapers. It is a collaboration between the National Endowment for the Humanities, the Library of Congress, and awardee institutions around the United States. This Trac instance is used to help coordinate activities around the open source software that is used by the NDNP program.

Chronicling America and the LC Newspaper Viewer

The software that is made available here, the LC Newspaper Viewer, is oriented around the web application Chronicling America that provides access to millions of newspaper pages at the Library of Congress. You might be interested in running the LC Newspaper Viewer software if you:

- are an NDNP awardee that wants to see what your content will look like when it is loaded at the Library of Congress, before sending it
- are an NDNP awardee that would like to run the LC Newspaper Viewer application locally to provide access to your NDNP content
- are someone else that wants to use the freely available code and data to build your own applications and visualizations

10,000 Foot View

The LC Newspaper Viewer is fundamentally just an open-source web application that understands how to model newspaper data created according to the technical guidelines laid out by the program. If you are familiar with web development, the three-tier application architecture shouldn't be too surprising:

- Apache Httpd: the web application server
- Django: the popular web framework for Python
- MySQL: the open source relational database (should be swappable with other RDBMs)
- Apache Solr: the fulltext search web service built on top of Lucene

In addition the source code includes a web-based Essay Editor? that provides a lightweight newspaper essay publication workflow to provide additional context around digitized newspapers in the LC Newspaper Viewer.

Diving In

Ohio Memory

Amherst News-Times

- Partnership with Amherst Public Library
- Use NDNP technical specifications

CONTENTdm FlexLoader

Utility allows loading of NDNP-spec content into CONTENTdm-hosted digital library

Advantages:

- Allows you to crosswalk a subset of NDNP elements to CONTENTdm fields.
- Ingests NDNP-formatted data ***as is***, including all word highlighting (which is the product of the ALTO files).

Disadvantages:

- Availability of elements available for crosswalking is statically determined (e.g. right now MIX data largely unmappable).
- Doesn't automatically read in image information like Project Client does.
- Assume it will take output from any vendor capable of producing valid NDNP output, but it should be tested.

CONTENTdm FlexLoader

CONTENTdm Flex Loader

View and update metadata fields

CONTENTdm Server URL: https://server16007.contentdm.oclc.org **Collection:** Amherst News Times

Compound-object level record | Page-level record

Select a field to update

- Title
- Subject
- Time Period
- Place
- Description
- Creator
- Date of Original
- Collection
- Source
- Submitting Institution
- Rights
- Type
- Digitization Information
- Image Height
- Image Width
- File Size
- Searchable Date

Edit metadata

Title

$(ISSUETITLE)

You can enter text and/or select auto data from the list

Add auto data

- $(DATE)
- $(DATEMMDDYYYY)
- $(DATEYYYYMMDD)
- $(EDITION)
- $(EDITIONLABEL)
- $(ISODATEYYYYMMDD)
- $(ISSUEDATE)
- $(ISSUEDAY)
- $(ISSUEMONTH)

Add

OK | Close

CONTENTdm FlexLoader

CONTENTdm Flex Loader

Add documents to your CONTENTdm collection

Help About

Step 1: Sign in to your CONTENTdm Server

CONTENTdm Server URL: https://server16007.contentdm.oclc.org

User name: cdm\267401admin

Password: **********

Sign In

Select the collection to add to: Amherst News Times

Collection Alias: /p15005coll31

View and customize metadata fields for this collection

Step 2: Add folders to the processing queue

Use the SHIFT and CTRL keys to select more than one folder

Import from folder: W:\Amherst News-Times\Batch 03 (1917-1940)\to_do\00000000012

..
1917110801
1917111501
1917112201
1917112901
1917120601
1917121301
1917122001
1917122002
1917122701

Import format: NDNP_Newspaper

Create print PDF

Add

Step 3: Manage the processing queue

You can process up to 500 folders at a time

Folders in queue | Transfer history

Folder	Status	Progress
1917110801	Not Started	
1917111501	Not Started	
1917112201	Not Started	
1917112901	Not Started	
1917120601	Not Started	
1917121301	Not Started	
1917122001	Not Started	
1917122002	Not Started	
1917122701	Not Started	

Access CONTENTdm Administration

Start Stop

Connected to https://server16007.contentdm.oclc.org

Ohio Memory – Viewing an Image

View Options (Image, Text)

Zoom/Rotate

Print

Thumbnails

Ohio Memory – Image Description

Object Description

Title	Amherst News-Times, 1932-08-04
Place	Amherst (Ohio)
Date of Original	1932-08-04
Source	LCCN: sn84028333, Amherst News-Times, 1932-08-04 15 38
Submitting Institution	Amherst Public Library
Type	Text
Digitization Information	300dpi, 8bit Grayscale, Model: SunRise 2000, Software: iArchives, Inc., 3.240
Format	newspapers
LCCN	sn84028333

Description

Title	page 1
Place	Amherst (Ohio)
Creator	Amherst News-Times, 1932-08-04
Source	Reel number: 00000000014
Submitting Institution	Amherst Public Library
Type	Text
Digitization Information	300dpi, 8bit Grayscale, Model: SunRise 2000, Software: iArchives, Inc., 3.240
File Size	3730.04KB
Full Text	v. the amherst news-times amherst, lore in county, ohio, thursday august 4, 1932 sandstone centecwrheworld' y- of fievu well, folks, day for big picnic is nearly here, ami it lip to people make most ot an opportunity that presented them by business men. people's picnic, with ruen acting us hosts. seems type being this year i- just suited conditions are facing at tills time.. haven't money pent woujd be required give our children a good time park like crystal beach, but ill cascade there plenty amusements free, and other forms entertainment provided full everyone. peems picnics designed primarily year, any rate "or children,.and mothers who need get out where they can spend quiet away from their.worries. type. co-operation or all men, attendance local people, suit success. http://www revelations made week community

Most of this information is not viewable on *Chronicling America* image-viewing screen!

Thank You!

Questions? Comments?

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