AUTHORITY CONTROL FOR DIGITAL COLLECTIONS
Preparing for Linked Data

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Backstage LIBRARY WORKS

ABSTRACT

One of the first steps to preparing for Linked Data is to identify existing controlled vocabularies with URIs that can be used for representing strings of data. This project demonstrates how an automated authority control project is being used to match names and subjects within the University of Utah's Digital Library with name and subject authority records available on the Library of Congress' Linked Data Service.
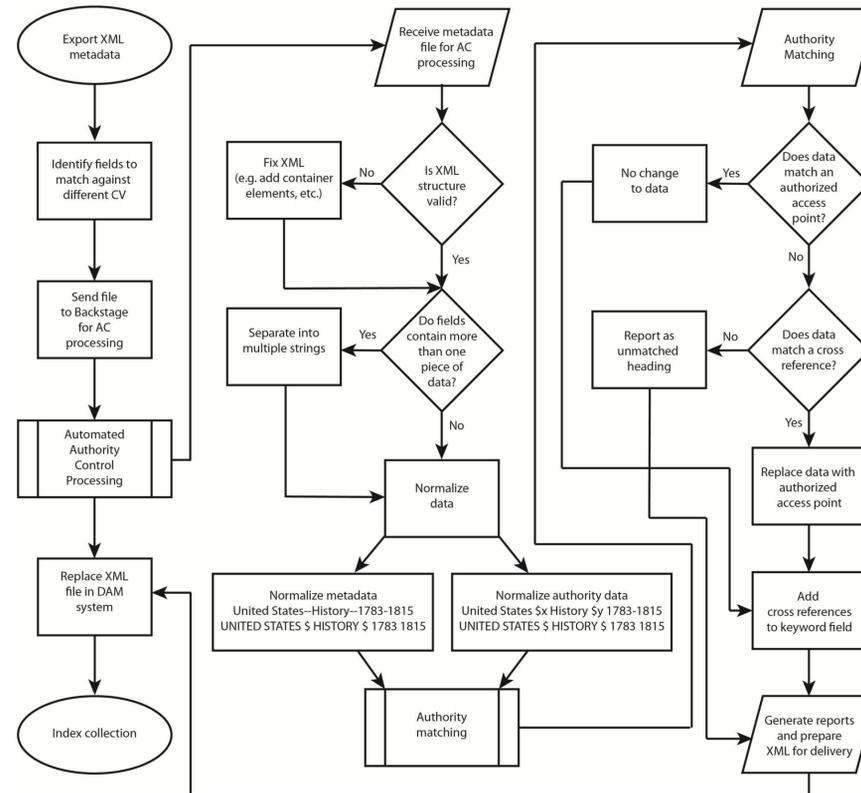
INTRODUCTION

Why should digital collections use automated authority control?
- Organize data in a more consistent way
- Improve cataloging efficiencies
- Standardize pieces of data across collections
- Identify inconsistencies in metadata
- Automate ongoing data maintenance
- Link to existing controlled vocabularies
- Prepare data for a linked environment

Metadata Inconsistencies

Navajo Indians	Beckwith, Frank A. (1876-1951)
Navaho Indians	Beckwith, Frank Asahel (1876-1951)
	Beckwith, Frank A.
Salt Lake	Beckwith, Frank A. (1876-1951)
Salt Lake City	Beckwith, Frank Asahel (1876-1951)
Salt Lake City (Utah)	Beckwith, Frank Asahel, 1876-1951
Bishop, Dail Stapley	Hansen, Henrie
Bishop, Dale Stapely	Hansen, Henry
Bishop, Dale Stapley	Hansen, Henry Daniel, 1896-1979

METHODS

RESULTS

Standardization of Semicolons and Double Dashes
Smith, John, 1932- United States–History–20th century;
Smith, John, 1932-; United States--History--20th century;

Standardization of Dates
1980-3; 20130526; May 26, 2013
1980; 1981; 1982; 1983; 2013-05-06

Change Report

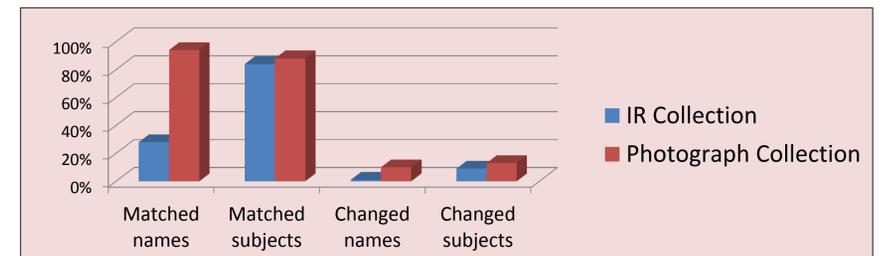| Old form	Authorized Form
Adachi, Zenkō, 1899-	Adachi, Zenkō, 1899-1990
Air pollution--Japan—Photographs	Air--Pollution--Japan—Photographs
Amanohashidate (Japan)	Ama no Hashidate (Japan)
Shanghai	Shanghai (China)
Tea ceremony, Japanese—Photographs	Japanese tea ceremony—Photographs

Near Match Report (Levenshtein-Distance Algorithm)

Unmatched Heading	%	Near Match
Tierney, Catherine	89.5%	Tierney, Catherine A.
Bennet Chandra Kumar, T. (Thankappa), 1954-	94.6%	Bennet Chandra Kumar, Thankappa, 1954-
Buddhist sculpture--Japan	75.0%	Buddhist sculpture
Crafts & decorating	86.4%	Crafts and decorating
Dong yuan dao guan li xiao xue (Hong Kong, China)	84.8%	Dong yuan dao guan xiao (Hong Kong, China)
Hiroshige III, 1842?-1894	82.6%	Hiroshige, 1842?-1894

CONCLUSIONS

- Benefits of automated authority control
  - Standardized data
  - Names and subjects match LC
  - Additional clean-up projects identified
  - URIs identified for Linked Data
  - Automated ongoing data maintenance via URIs

Statistics

URI Report

Heading	LC Linked Data Authorities	VIAF
Rainwater, Lee	http://id.loc.gov/authorities/names/n79090118	http://viaf.org/viaf/73924821
Zee, A.	http://id.loc.gov/authorities/names/n83311131	http://viaf.org/viaf/73931626
Burk, Raymond F.	http://id.loc.gov/authorities/names/n93042148	http://viaf.org/viaf/73940333
Mitiche, Amar	http://id.loc.gov/authorities/names/n94107194	http://viaf.org/viaf/74001559
Grinder, John	http://id.loc.gov/authorities/names/n81089426	http://viaf.org/viaf/74002742
Jin, Chunming	http://id.loc.gov/authorities/names/n83008440	http://viaf.org/viaf/74102826
Kukathas, Chandran	http://id.loc.gov/authorities/names/n88232472	http://viaf.org/viaf/7427966
Stone, Edwin M.	http://id.loc.gov/authorities/names/n88185272	http://viaf.org/viaf/7450939

REFERENCE

Myntti, J. & Cothran, N. (2013) Authority control in a digital repository: Preparing for linked data. *Journal of Library Metadata, 13*(2-3), 95-113.

ACKNOWLEDGEMENTS