Bridge2Hyku:
Tools and Strategies for Content Migration to Open Source Repository

Annie Wu, Santi Thompson, Andrew Weidner, Todd Crocken, Sean Watkins, Anne Washington, and Leroy Vallejo

2019 Open Repositories
Hamburg, Germany
Agenda

• Introduction
• Bridge2Hyku (B2H) project background
• B2H project needs, impact and goals
• B2H Toolkit Alpha release and pilot testing
• Communication and sustainability
• What’s next
UH Libraries Move to Open Source Digital Solutions

- Evaluated DAMS, digital preservation and archive landscape
- Recommended to implement open source digital solutions
- Develop an eco-system for systems integration
Samvera Community

35 partner institutions primarily in North America and Europe

Solution Bundles:
- Avalon
- Hyku
- Hyrax
Samvera Features

- Flexible, scalable and extensible
- Support multiple heads and special format applications
- Cutting-edge features extension
- Linked Data Platform (LDP)

**Samvera IS FLEXIBLE AND EXTENSIBLE**

The Samvera framework uses the best of current repository, search, and user interface technologies. The separation of data and display, within the Samvera framework, promotes flexibility and extensibility.

**Flexible**

Within the Samvera framework, one body, the digital repository, supports multiple heads or tailored, content type-specific applications. Additional heads can be implemented with the same repository to handle new forms of content as they emerge. All content stored in the repository can benefit from common curatorial functions and end-users benefit from tailored discovery and access interfaces.

**Extensible**

The Samvera framework is architected to extend features based on specific concerns and use-cases. Established features with long-term community commitment are available, such as:

- **Browse Everything** allows your data application to access user files from cloud storage, such as Dropbox, Skydrive, Google Drive, Box, and a server-side directory share
- **LDP** provides a Linked Data Platform and allows publication of RDF data

The agile and collaborative nature of the Samvera Community also enables experimentation with cutting-edge extensions, which can be added to address unique needs, explore usefulness and possibilities, and eventually gain community commitment. Experiments include:

- GeoMesh for linked data and geo-vocabularies
- International Image Interoperability Framework (III) manifest
- ORCID integration
- SHARE registry service
- Shibboleth authentication integration

[Image: Diagram showing connections between different types of data and a digital repository]
UNIVERSITY OF HOUSTON LIBRARIES PARTNER WITH SAMVERA

Posted on August 18, 2017 - News

The University of Houston Libraries (UHL) have become Samvera’s latest formal Partner.

UH Libraries has been actively involved in the Samvera Community through the Metadata Interest Group, CONTENTdm Migration Working Group, and Hyku efforts.

In addition to direct Samvera Community involvement, UH Libraries supports Samvera through activities in the Fedora repository community. UH Libraries helped initiate the South Central States Fedora Users Group (SCSFUG) with Texas Digital Library (TDL) to form a growing multi-state community of library faculty and staff who are actively working on or interested in Fedora-based repository projects. They have hosted events to continue to conversation and support for our base repository system.
IMLS National Leadership Grant

Bridge2Hyku Toolkit: Developing Migration Strategies for Hyku

LG-70-17-0217-17

Oct. 1st, 2017 – Sept. 31st, 2019
Bridge2Hyku – International Collaboration

Implementation Team

- University of Houston
- University of Victoria
- IUPUI

Community Stakeholders
- Stanford University
- DuraSpace
- Digital Public Library of America (DPLA)
- Indiana University – Bloomington

Recently Added Partner:
- Texas Digital Library (TDL)
Bridge2Hyku - Needs

- DAMS assessment
- Trend towards open source solutions
- Lack of migration tools and guidelines
- Lack of staff resources and expertise
Bridge2Hyku - Impact

- Fill current gaps in content migration practices
- Quicker and wider adoption of open source digital solutions
- Broaden access and expand use of digital content and collections
Bridge2Hyku – Goals and Outcomes

Bridge2Hyku Toolkit
website and Github site
  – Migration strategies and best practices
  – Migration software/tools
  – Hyku features and requirements

Community support and sustainability
Project Timeline

Phase 1
Oct 2017 - Apr 2018

- Conduct needs assessment (metadata and system requirements)

Phase 2
May 2018 - Apr 2019

- Develop and document B2H Toolkit (website, tools and guidelines)

Phase 3
May 2019 - Sept 2019

Project Design

Migration Software
Github Org:
- CONTENTdm tooling
- ...

Migration Framework
Website:
- Content Analysis
- Metadata Analysis
- Metadata Crosswalk
- Curation Ecosystem
- Preservation Plan

Target Repo:
Website: Hyku
- Data Modeling
- Metadata Schema
- File Types
- Configuration
- Branding
Bridge2Hyku Toolkit

- Migration Strategies
- Migration Tools
- Hyku Features

https://bridge2hyku.github.io/
Content Migration Strategies

Migration

Learn how to assess your current repository content and prepare it for a move to another system.

Migration Overview

Data migration for digital collections is a complex process. As with most difficult tasks, it can be helpful to break down what needs to be done into smaller blocks of work. In general, data migrations can be divided into four sub-tasks, each with their own sets of outcomes, tools, and techniques: Migration Planning, Metadata Normalization, Content Migration, and Content Verification.

The following sections describe the importance of each of these steps in more detail and provide resources for effectively planning and executing your next content migration. This page does not assume that you have chosen a target system for your migration or that you are migrating from a specific source platform. This information is intended as a general migration guide for both new and seasoned digital collections professionals.

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- Migration Planning
- Normalize Metadata
- Migrate Content
- Content Verification
- Migration Resources

- Migration Planning
- Normalize Metadata
- Migrate Content
- Content Verification
- Migration Resources
Content Migration Tools

- **CDM Bridge**
- **HyBridge**
- **CDM Migrator**

**Toolkit**
Use these tools to analyze your descriptive metadata and migrate your repository content to Hyku.

**Data Migration**
The tools below are available to help move your content out of CONTENTdm and into Hyku.

**CDM Bridge (Wiki)**
https://github.com/Bridge2Hyku/cdm-bridge/releases
An Electron desktop application for crosswalking and exporting CONTENTdm metadata. It also provides the option of exporting files from CONTENTdm. CDM Bridge connects to the CONTENTdm API and presents a custom crosswalking interface for each collection. Metadata specialists may use the application to generate lists of held values for cleanup and normalization prior to migration. When a collection is ready for migration CDM Bridge generates a CDM, with or without the final from CONTENTdm, that may be used to ingest the collection into Hyku with HyBridge.
CDM Migrator

Toolkit

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<table>
<thead>
<tr>
<th>Collection</th>
<th>Export Field</th>
<th>CDM Field</th>
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<tbody>
<tr>
<td>1850s and 1860s Hotel and Restaurant Menus</td>
<td>Title</td>
<td>Title</td>
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<tr>
<td>Andy Warhol - Celebutants, Groupies, and Friends</td>
<td>Creator</td>
<td>Creator (LCNAF)</td>
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<tr>
<td>Annual Reports from the Hospitality Industry Archi</td>
<td></td>
<td>Creator (HOT)</td>
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<td>Architectural Retail Catalog Collection</td>
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<td>Creator (ULAN)</td>
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<tr>
<td>The Astrodome, Eighth Wonder of the World</td>
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<td>Creator (Local)</td>
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<tr>
<td>Bebe Gow Scrapbooks</td>
<td>Keyword</td>
<td>Subject.Topical (LCSH)</td>
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<tr>
<td>Blanche Espy Chenoweth, Her Life, Her Times</td>
<td>Rights statement</td>
<td>Use and Reproduction</td>
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<td>Contributor</td>
<td>Contributor (Local)</td>
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<tr>
<td>Book of Hours, Use of Reims</td>
<td></td>
<td>Contributor (LCNAF)</td>
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<tr>
<td>Building Houston</td>
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<td>Contributor (HOT)</td>
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<tr>
<td>Burdette Keeland Architectural Drawings &amp; Photographs</td>
<td></td>
<td>Contributor (ULAN)</td>
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<tr>
<td>Captain O.C. McDavid World War II Letters</td>
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<td>Carlos (DJ Styles) Garza Drawings and Memorabilia</td>
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<td>City of Houston, Its Development and Evolution</td>
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<td>Civil War Letters</td>
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<td>Daily Cougar</td>
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<td>DJ Screw Photographs and Memorabilia</td>
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<td>Domestic Crude</td>
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<td>Abstract / Summary</td>
<td>Description</td>
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<td></td>
<td>Publisher</td>
<td>Publisher</td>
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### Works

#### Filter works:
- Visibility
- Status
- Admin Set

#### Show 10 per page

<table>
<thead>
<tr>
<th>Title</th>
<th>Date Added</th>
<th>Highlighted</th>
<th>Visibility</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parking lot one quarter mile from explosion</td>
<td></td>
<td></td>
<td>Private</td>
<td>Select</td>
</tr>
<tr>
<td>Oil tanks on fire three days later</td>
<td></td>
<td></td>
<td>Private</td>
<td>Select</td>
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<tr>
<td>Parking area one half mile from explosion</td>
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<td></td>
<td>Private</td>
<td>Select</td>
</tr>
<tr>
<td>Road to explosion area</td>
<td></td>
<td></td>
<td>Private</td>
<td>Select</td>
</tr>
<tr>
<td>Row of damaged houses</td>
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<td></td>
<td>Private</td>
<td>Select</td>
</tr>
<tr>
<td>Corner view of damaged houses</td>
<td></td>
<td></td>
<td>Private</td>
<td>Select</td>
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<tr>
<td>Damaged houses</td>
<td></td>
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<td>Select</td>
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<tr>
<td>Warehouse destroyed</td>
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<td>Private</td>
<td>Select</td>
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<tr>
<td>Freight cars one quarter mile from explosion</td>
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<td></td>
<td>Private</td>
<td>Select</td>
</tr>
<tr>
<td>Motor convoy for Texas City</td>
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<td></td>
<td>Private</td>
<td>Select</td>
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</tbody>
</table>
Hyku

Learn about what Hyku offers for your institution

**National Digital Platform**

Hyku, the repository software produced by the Hydra-In-a-Box project, was built as a part of the Institute for Museum and Library Services' National Digital Platform initiative. It strives to be "a feature-rich, robust, flexible digital repository that is easy to install, configure, and maintain."
Bridge2Hyku Github

Grow your team on GitHub
GitHub is home to over 31 million developers working together. Join them to grow your own development teams, manage permissions, and collaborate on projects.

Find a repository... Type: All Language: All

hybridge
A ruby gem to batch ingest digital objects into the Samvera Hyku application

Ruby ★ 1 3 Apache-2.0 Updated a day ago

Top languages
- Ruby
- Shell
- JavaScript
- TypeScript

People 1
Hibernation's End - Conference Season has Arrived

We haven't been sleeping, but we also haven't been posting. Find out where you can learn more about the Bridge2Hyku Project during this conference season! Read More ›
Bridge2Hyku

We're building a migration toolkit for digital archives/repositories to move into Hyku. This project was made possible in part by @US_ILMS.

Joined January 2018

Photos and videos

Pinned Tweet

Bridge2Hyku @Bridge2Hyku · Mar 15

we've heard back from all our submissions, and gosh, we have a busy spring coming up. Check out our conference schedule and come learn more about our project face-to-face soon.

Hibernation's End - Conference Season has Arrived

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bridge2hyku.github.io

Bridge2Hyku @Bridge2Hyku · Mar 27

If you took a Workshop entitled "Strategies and Tools for Digital Repository Selection and Migration", what would be the most important information to walk away from it with?

Bridge2Hyku @Bridge2Hyku · Mar 1

this is still true!
Other Toolkit Promotion Venues

- Conference presentations
- Workshops and online training
- Open access publications
Pilot Testing and Enhancement

- November 2018 – February 2019
- Testing rubric
- Pilot recommendations
B2H Project Partnership

- Digital Collections Report
- Tools Development
- Toolkit Promotion
Next Steps and Sustainability

- B2H Github Organization (UH)
- Samvera Community
- Third party hosted support
Thank You

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Image Credits:

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