



open-source software for archives
and libraries

digital preservation consulting
services

<http://artefactual.com>



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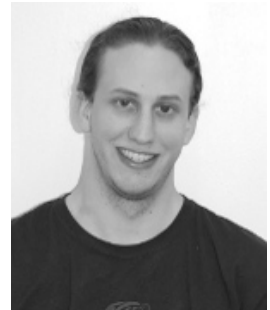
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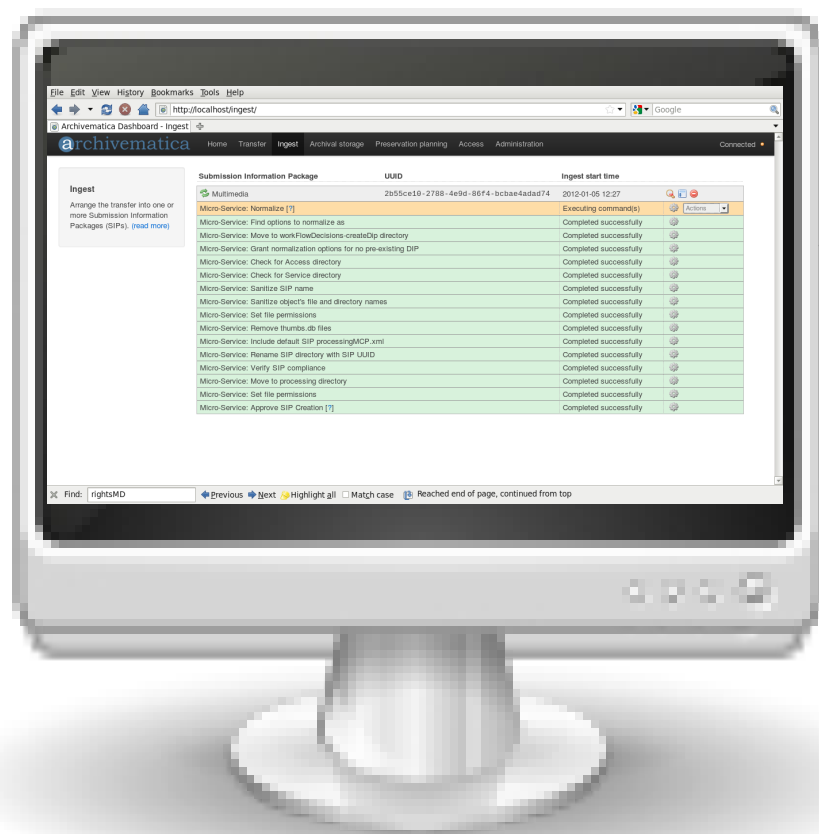
Joseph Perry
Software Engineer



Free Beer!

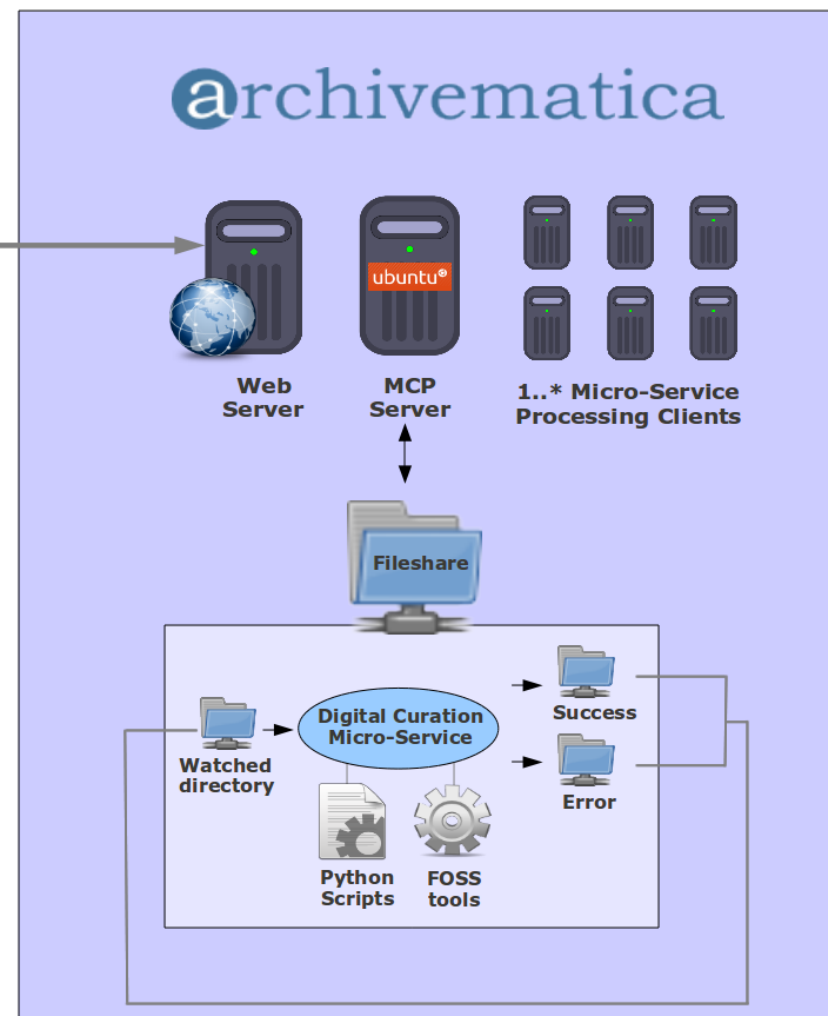
@archivematica

I C A A t o M



MANAGEMENT
Web Dashboard

monitor and control



or

digital files
& metadata



Transfer

Create a structured transfer director... [\(read more\)](#)

Transfer

UUID

Transfer start time

Multimedia	3dc766bb-de93-4067-b094-cc7f8ba412d5	2012-01-05 12:17	
Micro-Service: Characterize and extract metadata	Executing command(s)		
Micro-Service: Sanitize Transfer name	Completed successfully		
Micro-Service: Sanitize object's file and directory names	Completed successfully		
Micro-Service: Scan for viruses	Completed successfully		
Micro-Service: Extract packages	Completed successfully		
Micro-Service: Move to processing directory	Completed successfully		
Micro-Service: Workflow decision - send transfer to quarantine [?]	Completed successfully		
Micro-Service: Find type to process as	Completed successfully		
Micro-Service: Move to workFlowDecisions-quarantineSIP directory	Completed successfully		
Micro-Service: Designate to process as a standard transfer.	Completed successfully		
Micro-Service: Generate METS.xml document	Completed successfully		
Micro-Service: Verify metadata directory checksums	Completed successfully		
Micro-Service: Assign checksums and file sizes to objects	Completed successfully		
Micro-Service: Assign file UUIDs to objects	Completed successfully		
Micro-Service: Set file permissions	Completed successfully		
Micro-Service: Move to processing directory	Completed successfully		
Micro-Service: Workflow decision - create transfer backup [?]	Completed successfully		
Micro-Service: Find type to process as	Completed successfully		
Micro-Service: Move to workFlowDecisions-createTransferBackup directory	Completed successfully		
Micro-Service: Designate to process as a standard transfer.	Completed successfully		
Micro-Service: Include default Transfer processingMCP.xml	Completed successfully		

Find: rightsMD

Previous

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Highlight all

☐ Match case

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Archivematica Dashboard - Preservation planning - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost/preservation-planning/

Google

Archivematica Dashboard - ... PREMIS in METS Toolbox Gmail - Inbox (407) - epmc...

archivematicaHome Transfer Ingest Archival storage Preservation planning Access Administration

Preservation planning

Archivematica implements media-type preservation plans by launching default normalization paths... (read more)

Media type	Show advanced details			
	Extension	Normalization description	Command	Purpose
Audio	ac3	Transcoding to mp3 with ffmpeg	Show	access
	ac3	Transcoding to wav with ffmpeg	Show	preservation
	aif	Transcoding to mp3 with ffmpeg	Show	access
	aif	Transcoding to wav with ffmpeg	Show	preservation
	mp3	Transcoding to mp3 with ffmpeg	Show	access
	mp3	Transcoding to wav with ffmpeg	Show	preservation
	wav	Transcoding to mp3 with ffmpeg	Show	access
	wma	Transcoding to mp3 with ffmpeg	Show	access
	wma	Transcoding to wav with ffmpeg	Show	preservation
Office Open XML				
	pptx	Transcoding to pdf with openOffice	Show	access
Portable Document Format				
	pdf	Transcoding to pdfa with Ghostscript	Show	preservation

Find: rightsMD

Previous

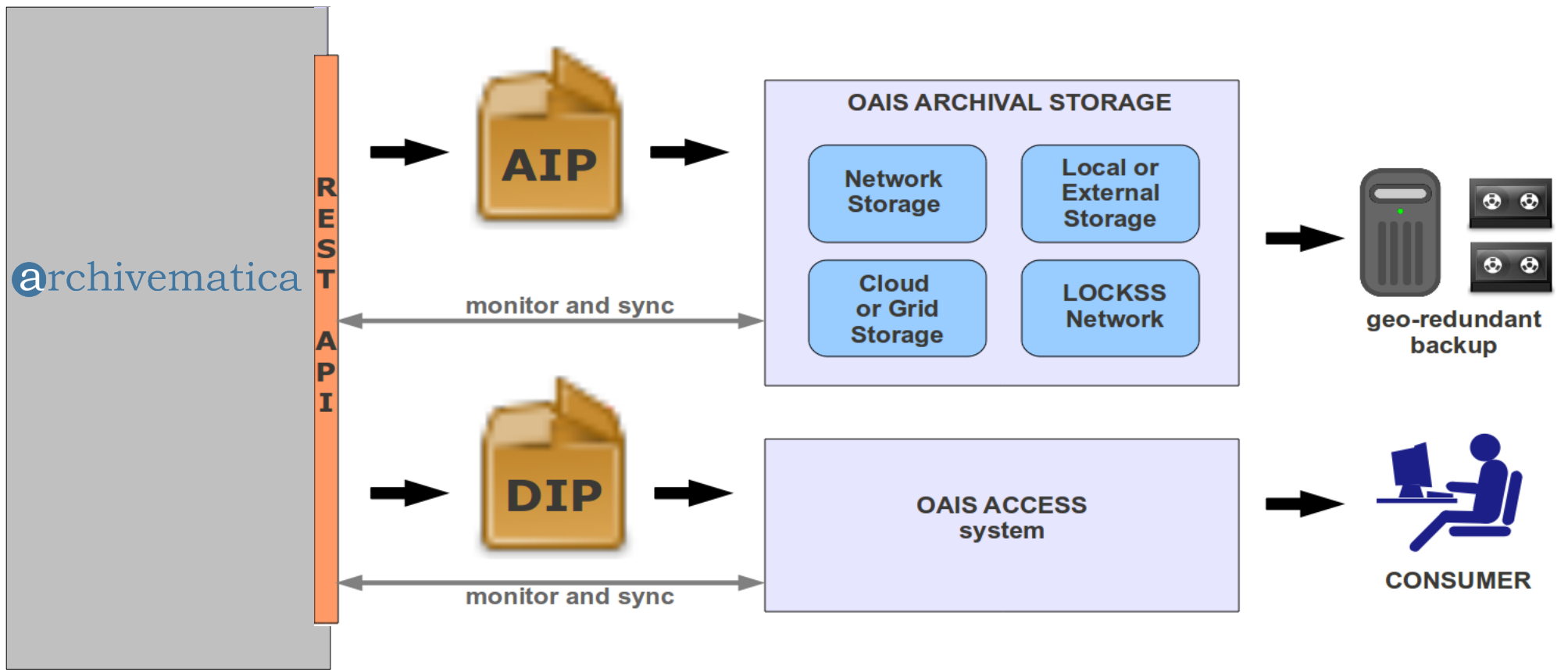
Next

Highlight all

Match case

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```
-< mets xsi:schemaLocation="http://www.loc.gov/METS/ http://www.loc.gov/standards/mets/version18/mets.xsd">
-  < amdSec ID="amdSec_1">
-    < techMD ID="techMD_1">
-      < mdWrap MDTYPE="PREMIS:OBJECT">
-        < xmlData>
-          < object xsi:type="file" xsi:schemaLocation="info:lc/xmlns/premis-v2 http://www.loc.gov/standards/premis/v2/premis-v2-1.xsd"
            version="2.1">
-            < objectIdentifier>
              < objectIdentifierType>UUID</objectIdentifierType>
              < objectIdentifierValue>cb9471be-dafa-4b80-8e67-56adb74fdb01</objectIdentifierValue>
            </objectIdentifier>
-            < objectCharacteristics>
              < compositionLevel>0</compositionLevel>
-            < fixity>
              < messageDigestAlgorithm>sha256</messageDigestAlgorithm>
-            < messageDigest>
              6fdf0dd461389b6716976ba7fd2e0082cd5f98fe68da95e1e1355ca5a594f8bd
            </messageDigest>
-          </fixity>
          < size>1818411</size>
-        </format>
-        < formatDesignation>
          < formatName>Advanced Systems Format</formatName>
          < formatVersion/>
        </formatDesignation>
-        < formatRegistry>
          < formatRegistryName>PRONOM</formatRegistryName>
          < formatRegistryKey>fmt/131</formatRegistryKey>
        </formatRegistry>
      </mdWrap>
    </techMD>
  </amdSec>
</mets>
```





Search



Advanced search

Archival institution

City of Vancouver Archives

Creator(s)

- Campbell Studios Inc.

Fonds

- Fonds - Campbell Studio fonds (draft)
 - Series - Qualicum Beach project files (draft)
 - Item 01 - Aerial June 30 (draft)
 - Item 02 - Beach stands (draft)
 - Item 03 - Awards Ceremony (draft)
 - Item 04 - Mayor Clark (draft)

Export

- Dublin Core 1.1 XML
- EAD 2002 XML

Browse

- Archival descriptions
- Authority records
- Archival institutions
- Functions
- Subjects

View archival description

Item 01 - Aerial June 30 (draft)

- Date(s) - This is a mandatory element.
- Extent and medium - This is a mandatory element.

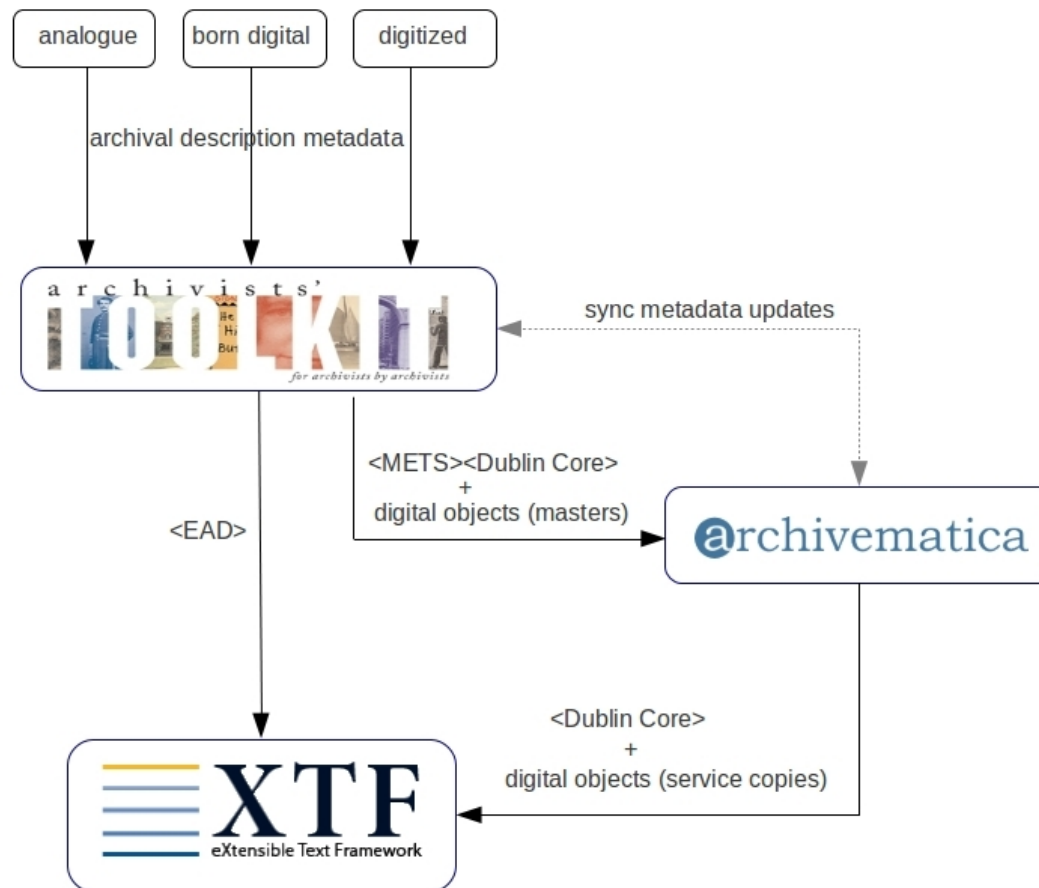


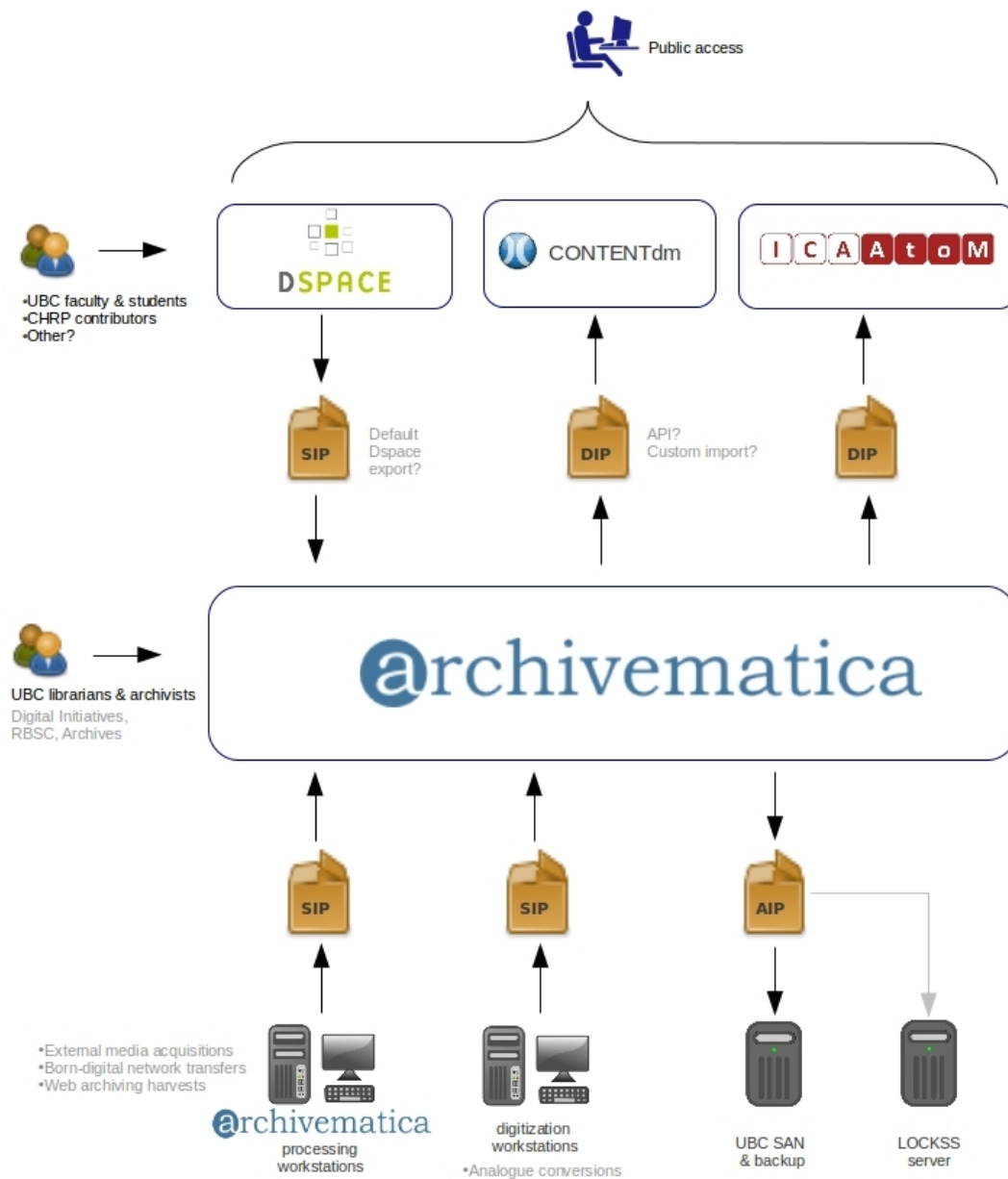
Identity area

Reference code CA CVA 01

Find: rightsMD

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Who is using Archivematica?

- Artefactual Systems clients
 - City of Vancouver Archives
 - International Monetary Fund Archives
 - Rockefeller Archives Center
 - University of British Columbia Library
 - Simon Fraser University Archives

Who is using Archivemata?

- Archivemata community
 - 20-30 pilot testers
 - Documentation contributions
 - Hydra fork: 'Rubymata'
 - Media preservation plan testing
 - 3rd party service providers
 - Education: University of Toronto, LSU, University College London, SAA
 - 10+ workshops in past 12 months

Agile development method

- Release early, release often
 - Feb 2009: Release 0.1-alpha
 - May 2010: Release 0.6-alpha
 - February 2011: Release 0.7-alpha
 - June 2011: Release 0.7.1-alpha
 - January 2012: Release 0.8-alpha
- Each iteration leads to updated and improved:
 - Requirements
 - Software
 - Documentation
 - Development resources

Key 2012 Development

- June 2012: 0.9-beta
 - transfer indexing & file visualizations
 - emulation
 - registry integration
- Dec 2012: production-ready release 1.0

archivemata.org

Archivemata

archivemata.org/wiki/index.php?title=Main_Page

archivemata
open archival information system

navigation

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- Permanent link

page

discussion

view source

history

Main Page

From Archivemata

What is Archivemata?

Archivemata is a comprehensive [digital preservation](#) system. Archivemata uses a [micro-services](#) design pattern to provide an integrated suite of free and open-source tools that allows users to process digital objects from ingest to access in compliance with the ISO-OAIS functional model.

Users monitor and control the micro-services via a web-based dashboard. Archivemata uses METS, PREMIS, Dublin Core and other best practice metadata standards. Archivemata implements [media type preservation plans](#) based on an analysis of the [significant characteristics](#) of file formats.

The [overview](#) section provides a detailed description of Archivemata's functionality and technical architecture. [This screencast](#) gives a demo of the Archivemata 0.7.1-alpha release.

archivemata

ingest

Archival storage

Preservation planning

Submission Information Package	UUID	Ingest start time
Special_projects	db72ba77-657f-4272-b321-f3311bc7a486	2011-06-16 14:23
Micro-Service: Appraise SIP for submission [?]		Requires approval
Micro-Service: Set file permissions		Completed successfully
Micro-Service: Create Dublin Core template		Completed successfully
Micro-Service: Remove thumbs.db files		Completed successfully
Micro-Service: Verify metadata directory checksums		Completed successfully
Micro-Service: Assign file UUIDs and checksums		Completed successfully
Micro-Service: Verify SIP compliance		Completed successfully
Micro-Service: Create SIP backup		Completed successfully
Planning Projects-jul-dec-04	23c49891-bf57-43a1-9118-2aa8d32ec63d	2011-06-16 13:55
Planning Projects-Jan-Jun-04	15c3ebd8-b263-4907-a393-9c7bd8889cc7	2011-06-16 13:50
Zoning hearings	c77aa7a2-b0be-413f-8908-64c7259ab085	2011-06-16 13:49

Archivemata 0.7.1-alpha Dashboard

Free and open source

Archivemata is free and open source software. The software applications integrated into Archivemata are each released under their own open source license. These are checked for license compatibility before they are integrated into the project. A full list of applications with their respective license is available on the [external software tools](#) page.

Any new software code created for the Archivemata project is released under a GPL version 2 license. The source code is available at [archivemata.googlecode.com](#). All the system documentation found on this wiki is released under a Creative Commons license.

[Code contributions](#), [bug reports](#), [wiki documentation updates](#) along with questions and feedback in the [chat room](#) and [discussion list](#) are strongly encouraged and welcomed.

Agile development

Digital preservation systems must implement strategies that deal with technology obsolescence and incompatibility to ensure that digital objects remain authentic, accessible and useable for future use. The technologies that create digital objects and the technology available to manage them are constantly changing. Therefore, the Archivemata project has established an [agile software development](#) methodology to manage the perpetual maintenance and development of the system. This methodology is focused on rapid, iterative release cycles, each of which improves upon the system's [requirements](#), [software](#), [documentation](#), and [development](#) resources.

About

This project is managed by [Artefactual Systems](#) in collaboration with the UNESCO Memory of the World's Subcommittee on Technology, the City of Vancouver Archives, the University of British Columbia Library, the Rodetelefer

Download Release 0.7.1-alpha

Release notes

Documentation

user manual
screencast demo

Developer resources

Development roadmap
Discussion list

Twitter

What people are saying about Archivemata

DublinCore The primary function of Archivemata is to process SIPs... and create Archival Information Packages (AIP)

6 minutes ago · reply · retweet · favorite

keyonlidsmith Archivemata: Creating a Comprehensive Digital Preservation System

http://t.co/OuX7gRe

3 days ago · reply · retweet · favorite

Totehe Great review of Archivemata via Practical E-Records

http://t.co/XyKmPgA Still in development - optimistic for future use.

4 days ago · reply · retweet · favorite

pjvangardenen Haha. DNA got into the XML configs and defined an alternate workflow RT @anarchivist @dedan There's an Archivemata pipeline joke in there

4 days ago · reply · retweet · favorite

anarchivist @pjvangardenen @dedan There's an Archivemata pipeline joke in there somewhere.

4 days ago · reply · retweet · favorite

pjvangardenen Yo! Likewise. Make it so Garlo RT @migslo @dml86

Join the conversation

News

November 21: Release 0.8-beta

October 19: Access 2011 (Vancouver)

August 22: Society of American Archivists 2011 conference presentation (Chicago)

August 15: CURATEcamp (San Francisco)

June 20: American Library Association 2011 conference. (New Orleans) (a) PREMIS in Archivemata (b) Digitizing Digital Preservation Systems