

Archivematica

The logo for Artefactual Systems Inc. features a stylized lowercase 'a' in white inside an orange circle. To the right of the circle, the word 'artefactual' is written in a blue serif font. Below this, the words 'systems' and 'inc.' are written in a smaller, blue, spaced-out serif font, separated by a thin horizontal line.

Digital Preservation 2012

July 25, 2012

Courtney C. Mumma, Systems Analyst
and Archivematica Community Manager

What is Archivematica?

- A comprehensive digital preservation system
- Free and open-source software (FOSS)
- Uses a micro-services design pattern to provide an integrated suite of free and open-source tools
- Allows users to monitor and control the micro-services via a web-based dashboard

What is Archivematica?

- Implements format normalization upon ingest and preserves originals to support emulation and migration strategies
- Generates PREMIS event entities as audit logs to maintain authenticity of ingested objects
- Allows users to process digital objects from ingest to access in compliance with the ISO-OAIS functional model

archivematica.org

Archivematica

archivematica.org https://www.archivematica.org/wiki/Main_Page

Artefactual Projects Blogs Tools Archivematica Artefactual Records Calls for Proposal Provenance WG Wiki Open Planets Foun...

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Page Discussion

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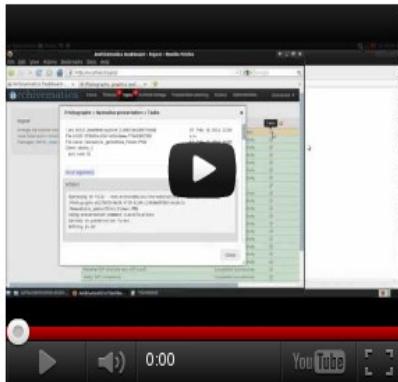
Main Page

What is Archivematica?

Archivematica is a free and open-source [digital preservation](#) system that is designed to maintain standards-based, long-term access to collections of digital objects.

Archivematica uses a [micro-services](#) design pattern to provide an integrated suite of software 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. Archivematica uses METS, PREMIS, Dublin Core and other best practice metadata standards. Archivematica implements media type preservation plans based on an analysis of the significant characteristics of file formats.

The overview section provides a detailed description of Archivematica's functionality and technical architecture. This [Archivematica 0.8-alpha screencast](#) gives a demo of the core features in the current release.



Free and open source

Archivematica is free and open source software. Any new software code created for the Archivematica project is released under an [AGPL3](#) license. The source code is available at [archivematica.googlecode.com](#). All the system documentation found on this wiki is released under a Creative Commons license.

The software applications integrated into Archivematica 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.

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

Commercial licenses and commercial use of the Archivematica name and logo [trademarks](#) may be negotiated with [Artefactual Systems](#) on a case-by-case basis.

Alpha development

Download Release 0.8-alpha

- Release notes

Documentation

- User Manual
- Screencast demo

Developer resources

- Development roadmap
- Discussion list

Twitter

What people are saying about Archivematica

- Bibiolo RT @AAO_Archeion: Mention of Archivematica's list of file preservation and access formats: [archivematica.org/wiki/Media_type...](#) #TAATU #ACA2012 2 hours ago · reply · retweet · favorite
- 1 new tweet
- VanArchives RT @archivematica: here's the mockup @tjyvangardenen showed + some more [archivematica.org/wiki/File_Brow...](#) #aca2012 5 hours ago · reply · retweet · favorite
- AAO_Archeion Mention of Archivematica's list of file preservation and access formats: [archivematica.org/wiki/Media_type...](#) #TAATU #ACA2012 5 hours ago · reply · retweet · favorite
- mistydemco @archivematica Fantastic - for recurring ingests of similar content of known provenance? #taatu #aca2012 5 hours ago · reply · retweet · favorite
- mistydemco So while the new web browser interface for SIP creation in @archivematica looks great - is automated SIP building possible? #taatu #aca2012 5 hours ago · reply · retweet · favorite

Join the conversation

News

- September 26: UNESCO Memory of the World In the Digital Age International Conference; *Tutorial: The Archivematica project;

Who is using Archivemática?

- Archivemática community
 - 30-40 pilot testers
 - Documentation contributions
 - Media preservation plan testing
 - 3rd party service providers
 - Training: University of Toronto, LSU, University College London, SAA
 - 10+ workshops in past 12 months

User groups

Inbox (7) - courtney.mumm... | HootSuite | (99+) archivematica - Googl... | google.com | https://groups.google.com/forum/?fromgroups#!forum/archivematica | Google

Artefactual Projects | Blogs | Tools | Archivematica | Artefactual Records | Calls for Proposal | Provenance WG Wiki | Open Planets Foun... | +Courtney | Search | Images | Maps | Play | YouTube | News | Gmail | Documents | Calendar | More -

Google | Search for topics | Courtney Mumma | 0 | + Share | Members | Filters

Groups | NEW TOPIC | Mark all as read | Filters

My groups | Home | Starred | Announcements | Google Groups Anno... | Recently viewed | archivematica issues | Archivists' On to Ott... | ICA-AtoM Users | archivematica | Recently posted to | Archivists' On to Ott... | Favorites

Click on a group's star icon to add it to your favorites

archivematica | My membership | Showing 30 of 216 topics (99+ unread)

★	Linking AM to catalog - looking for a simple solution	By ARCW Digital Preservation - 1 post - 2 views - updated Jun 6 (1 day ago)	
★	[archivematica] Folder name sanitizing fails on second level.	By Nick Krabbenhoef - 2 posts - 2 views - updated May 31 (6 days ago)	
★	implementations	By Heather Yager - 2 posts - 6 views - updated May 17	
★	Version 8 Installation on VMware (ESXI 5) (12)	By Jeryn - 12 posts - 14 views - updated May 11	
★	Workflow (4)	By Stefan Gutten - 4 posts - 5 views - updated May 9	
★	Prepare AIP fails after skipping normalization (6)	By Tim Hutchinson - 6 posts - 2 views - updated May 3	
★	Integrating existing metadata (3)	By Tim Hutchinson - 3 posts - 2 views - updated May 2	
★	Re: Overview Page edits - wiki (1)	By Joseph Perry - 1 post - 0 views - updated May 1	
★	starting ingest again after failure (4)	By tcatapano - 4 posts - 2 views - updated Apr 30	
★	reloading Virtual Appliance 0.8 fails (5)	By Joseph - 5 posts - 1 view - updated Apr 30	
★	JhoveMIX output to METS.xml (5)	By aaroncolleie - 5 posts - 2 views - updated Apr 17	
★	set databaser credentials - db settings (6)	By ARCW Digital Preservation - 6 posts - 13 views - updated Apr 17	
★	SIP and AIP (2)	By Stefan Gutten - 2 posts - 6 views - updated Apr 13	
★	virus check taking a long time (14)	By tcatapano - 14 posts - 7 views - updated Apr 10	
★	Process testing & Revision: r2410 (1)	By berwin22 - 1 post - 1 view - updated Apr 3	
★	Automating Workflows		

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<https://groups.google.com/forum/?fromgroups#!forum/archivematica>

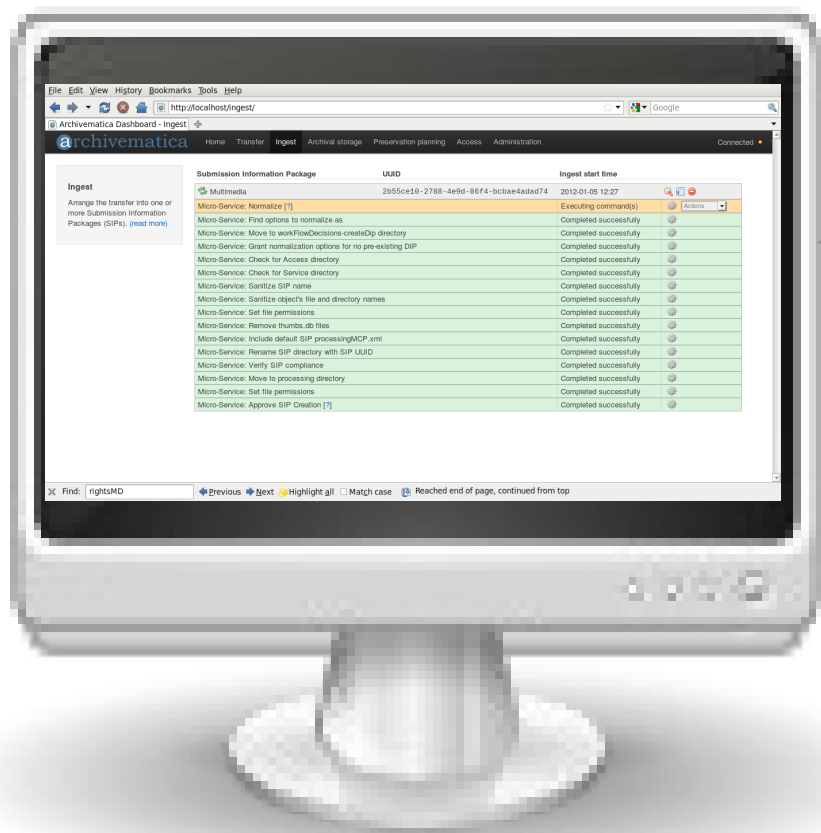
Agile development method

- Release early, release often
 - Feb 2009: Release 0.1-alpha
 - June 2011: Release 0.7.1-alpha
 - January 2012: Release 0.8-alpha
 - August 2012: Release 0.9-beta
 - January 2013: Release 1.0
- Each iteration leads to updated and improved:
 - Requirements
 - Software
 - Documentation
 - Development resources

Archivematica issues list

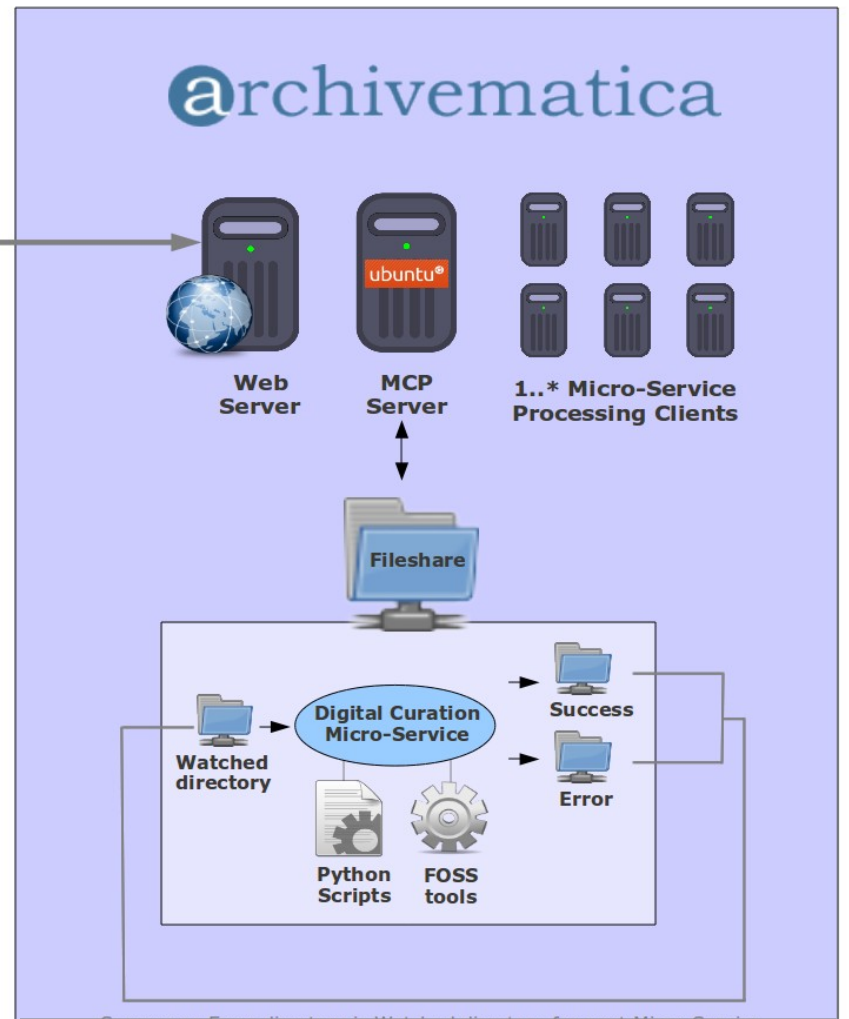
ID	Milestone	Component	Type	Status	Priority	Owner	Summary + Labels
1011	Release-0.9	METS, Sponsored	Enhancement	New	High	joseph@artefactual.com	Add default Archivematica structMap label to distinguish from user-supplied structMap
1010	Release-0.9	----	Defect	Accepted	High	joseph@artefactual.com	Resolve: two "CREATE TABLE StandardTasksConfigs"
1009	Release-0.9	----	Defect	QA-Review	High	courtney.mumma	Include empty directories in BAG.
1008	Release-0.9	----	Defect	Accepted	Medium	courtney.mumma	Contact BAGIT spec organization - Empty directories should be included.
1007	Release-0.9	----	Defect	New	High	courtney.mumma	Create premis event regarding empty directories included in BAG
1004	Release-0.9	Dashboard	Enhancement	Accepted	High	mcantelon	Eliminate side info panels from dashboard and all home page
1003	Release-0.9	Sponsored	Defect	New	High	austin@artefactual.com	Investigate tools to convert PST to maildir
1002	Release-0.9	Administration	Enhancement	Accepted	High	austin@artefactual.com	Nightly MCP mysql dump
1000	Release-0.9	Workflow	Defect	Accepted	High	josephperry.artefactual2	empty directories are removed from Maildir during SIP processing
999	Release-0.9	Dashboard	Defect	Accepted	High	mcantelon	sub jobs to appear under parent jobs in dashboard.
998	Release-0.9	MCP	Defect	Accepted	Medium	josephperry.artefactual2	Log MCP normalization output
997	Release-0.9	MCP	Defect	Accepted	High	josephperry.artefactual2	microservice of submission documentation normalization
996	Release-1.0	PREMIS, Sponsored	New-Feature	New	High	josephperry.artefactual2	User that approves processing to be captured as PREMIS agent
994	Release-0.9	----	Defect	Accepted	Medium	mcantelon	Implement AJAX-based viewing of subjobs
993	Release-0.9	ArchivalStorage, Dashboard	Enhancement	New	High	mcantelon	Add View normalization report and View normalized files option at Approve normalization task
992	Release-0.9	ArchivalStorage, Dashboard	Enhancement	New	High	mcantelon	Add View METS and View AIP option at Store AIP task
991	Release-0.9	----	Defect	Accepted	Medium	mcantelon	Make sure blank value doesn't generate NaN in task popup data fields
990	----	----	Defect	New	Medium	----	Secure mysql connections
988	Release-0.9	MCP	Enhancement	Accepted	High	austin@artefactual.com	Update to gearman
986	Release-0.9	Documentation	Other	New	High	courtney.mumma	Consolidate technical documentation into an administrator's manual
985	Release-0.9	Packages	Enhancement	QA-Feedback	Medium	austin@artefactual.com	Use ffmpeg.org version of ffmpeg instead of avconv
984	Release-0.9	Transcoder	Defect	QA-Feedback	Medium	josephperry.artefactual2	Access normalization fails in digitization workflow when filenames have periods in them
982	Release-0.9	Forms, PREMIS, Sponsored	Enhancement	New	High	mcantelon	Update rights module
981	Release-0.9	DataManagement, Qubit	Defect	New	Medium	mcantelon	Export PREMIS rights to Qubit rights module
980	Release-0.9	Dashboard	Enhancement	New	Medium	courtney.mumma	Check tasks, microservices and dropdown menus for naming clarity and consistency

<http://code.google.com/p/archivematica/issues/list>



**MANAGEMENT
Web Dashboard**

monitor and control



or

digital files
& metadata

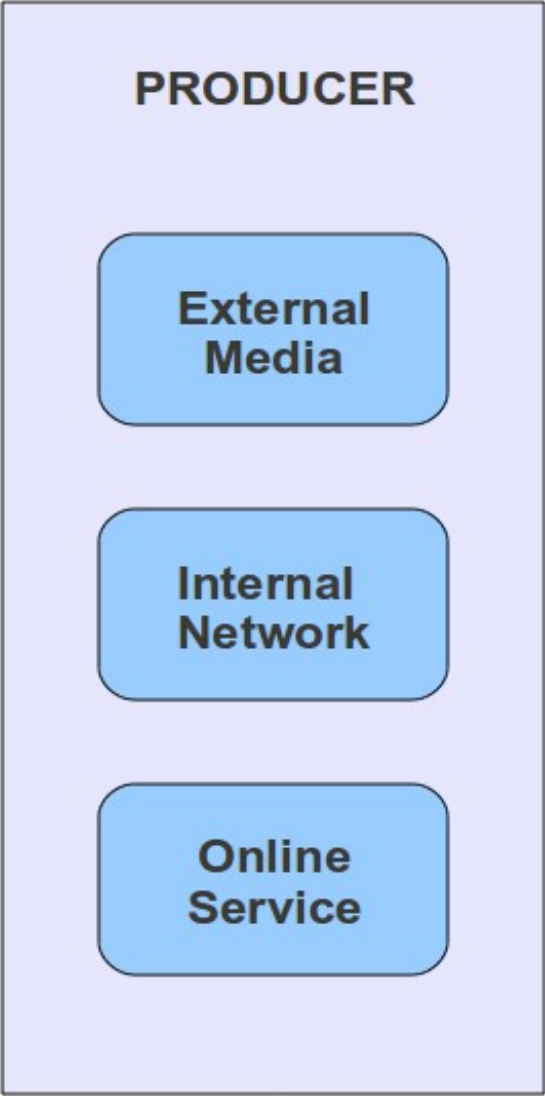


Micro-Services

receiveSIP
verifyChecksums
generateChecksums
reviewSIPcompliance
quarantineFiles
extractPackagedFiles
assignUniqueIdentifiers
removeProhibitedCharacters
virusScan
identifyFormat
validateFormat
identifyPreservationPlan
transcodeFormat
parseMetadata
generatePREMIS
generateMETS
createAIP
createDIP
storeAIP
uploadDIP

FOSS Tools

UUID
EasyExtract
Detox
MD5
ClamAV
FITS
Jhove
Droid
FFident
File
Unoconv
OpenOffice
Ghostscript
FFmpeg
ImageMagick
DigiKam
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FITS
Jhove
Droid
Bagit
ICA-AtoM
Incron
Django
Twisted

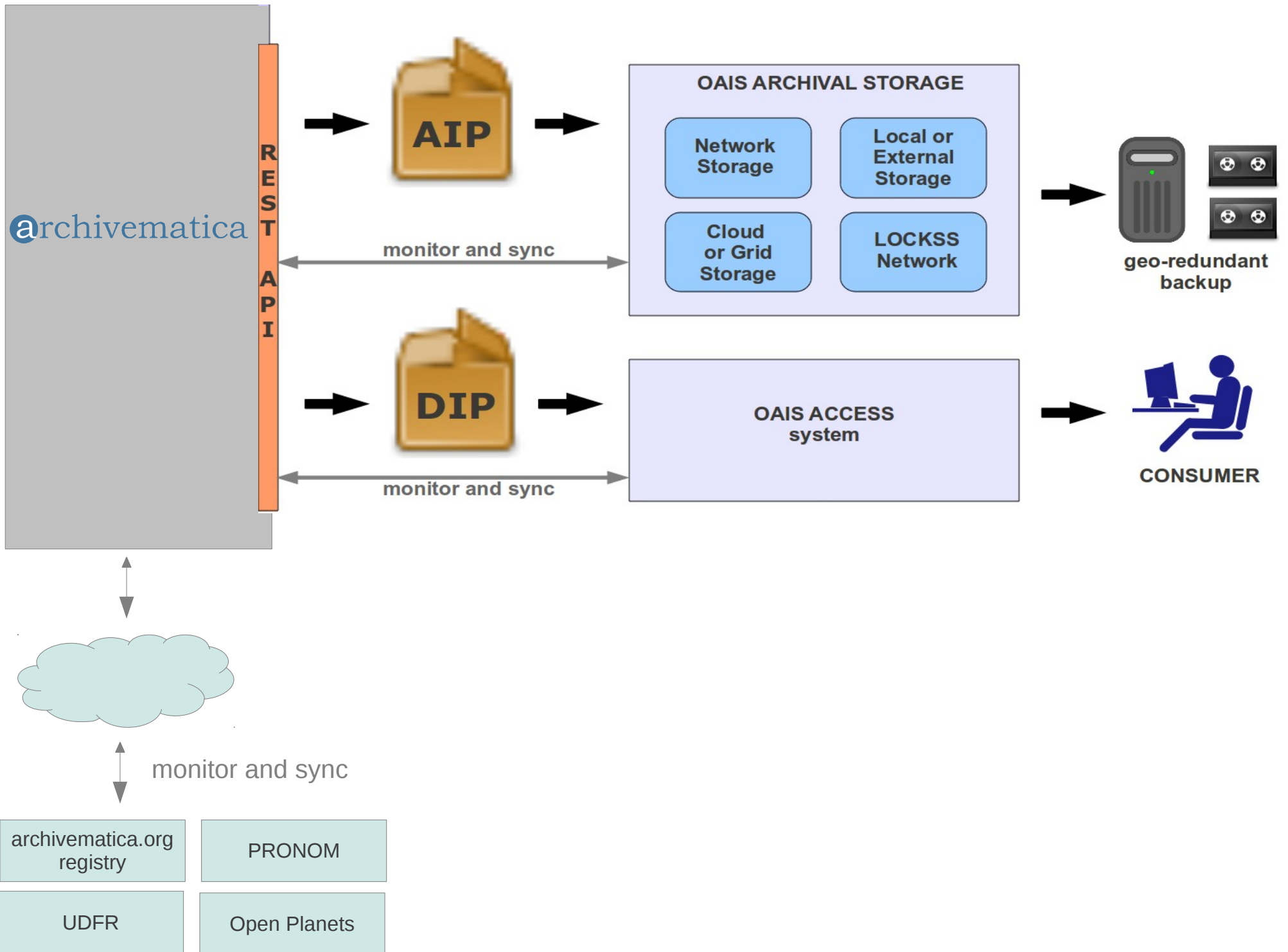


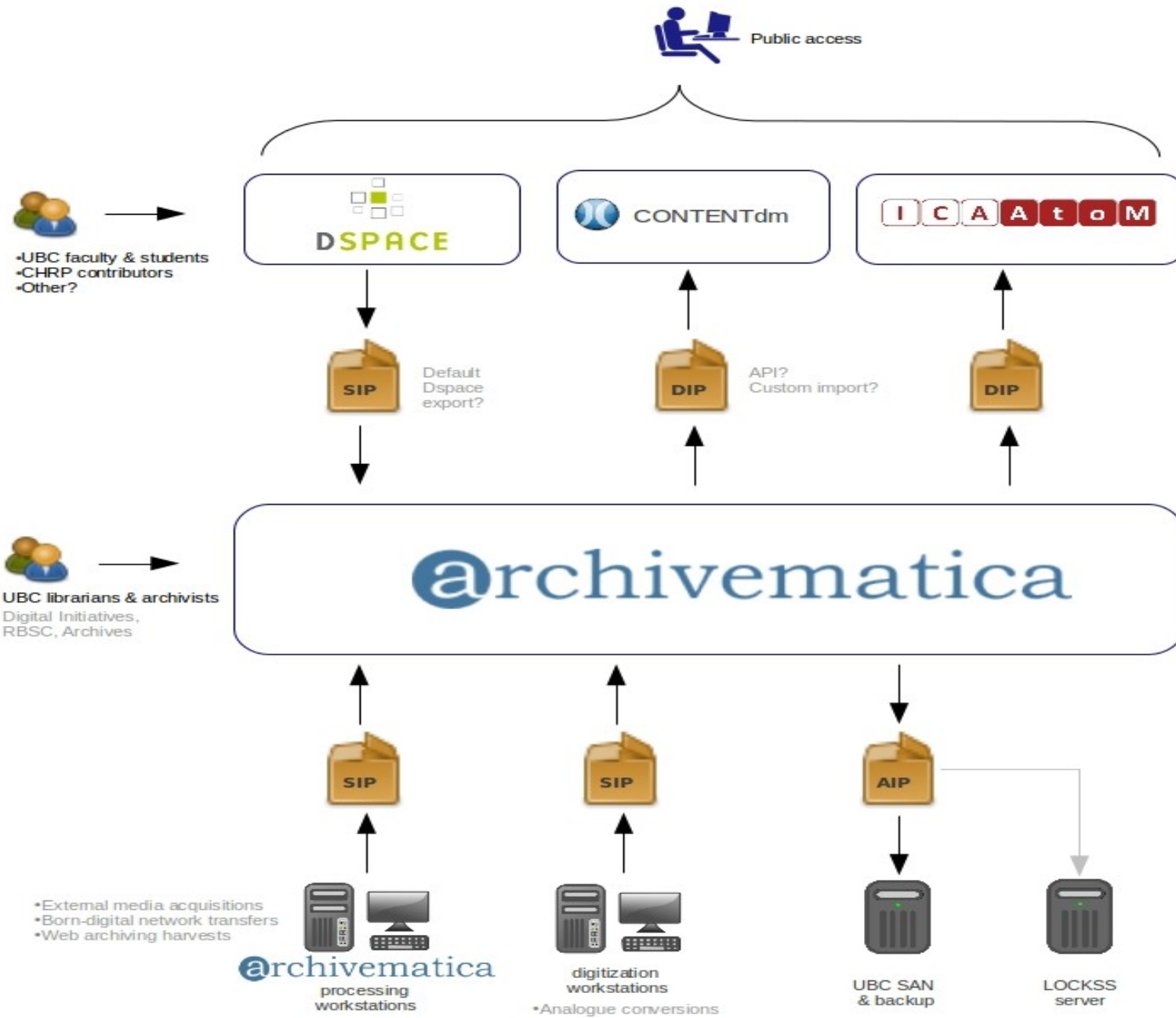
Curator's Workbench
Fiwalk
Guymager
Digital Forensics Framework



Pre-Ingest Processing Workstation







Archivematica Demonstration and Discussion

**[https://www.archivematica.org/
wiki/User_Manual](https://www.archivematica.org/wiki/User_Manual)**