



MEMORY OF THE WORLD

Towards an Open Source Repository and Preservation System

Recommendations on the Implementation of an Open Source
Digital Archival and Preservation System and on Related
Software Development



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FileEditViewHistoryBookmarksToolsHelp

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Archivemata



open archival information system

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navigation

- Main page
- Community portal
- Current events
- Recent changes
- Random page
- Help

search

GoSearch

toolbox

- What links here
- Related changes
- Special pages
- Printable version
- Permanent link

pagediscussionview sourcehistory

Main Page

What is Archivemata?

The Archivemata project is integrating a number of open source tools and applications to create a comprehensive digital archives system that is compliant with the ISO-OAIS standard and is able to implement [media type preservation plans](#) based on an analysis of significant properties.

The [overview](#) section provides a summary of Archivemata's functionality and technical architecture.

The project is also trying to establish an agile development methodology to assist with the ongoing 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](#)

Open source

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 licence is available on the [software page](#).

Download

- [Archivemata-0.5-alpha.tgz](#) (1.7 GB)
 - [Virtual appliance instructions](#)
 - [What is a virtual appliance?](#)

Development

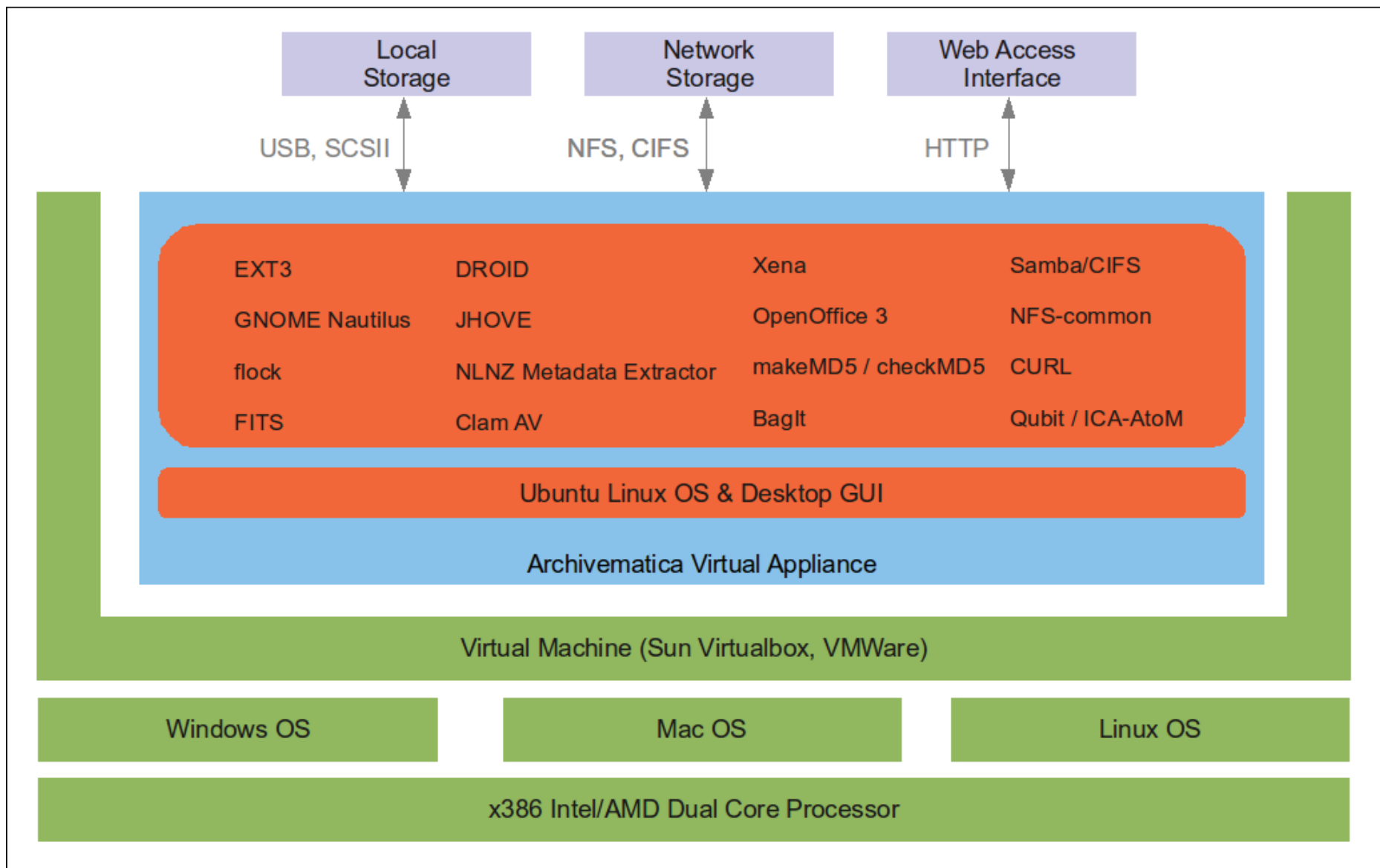
- [Discussion list](#)
- [Code repository](#)
- [Contribute code](#)
- [Developer resources](#)

About

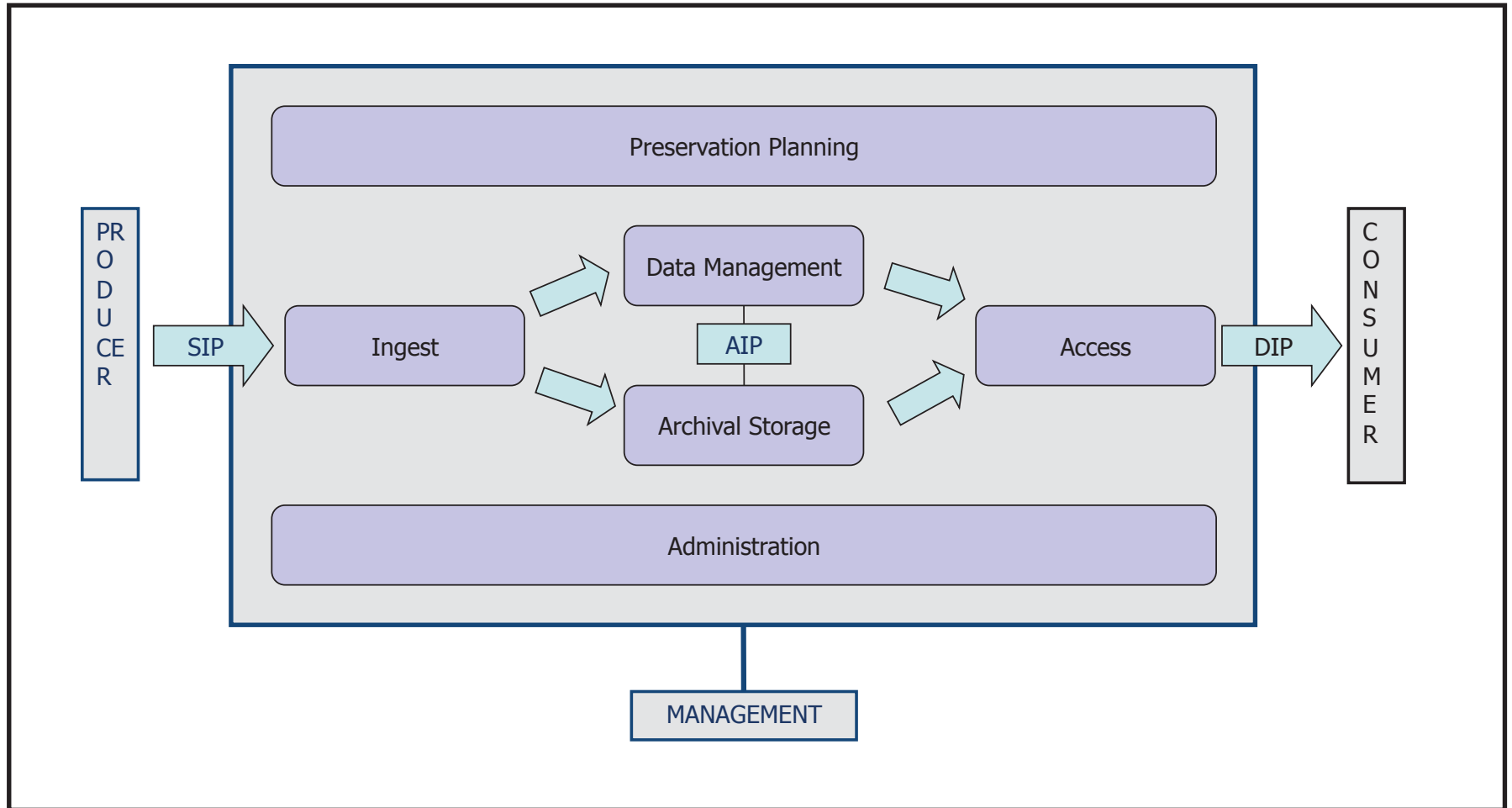
This project is managed by [Artefactual Systems](#) in collaboration with the [UNESCO Memory of the World](#)

Done

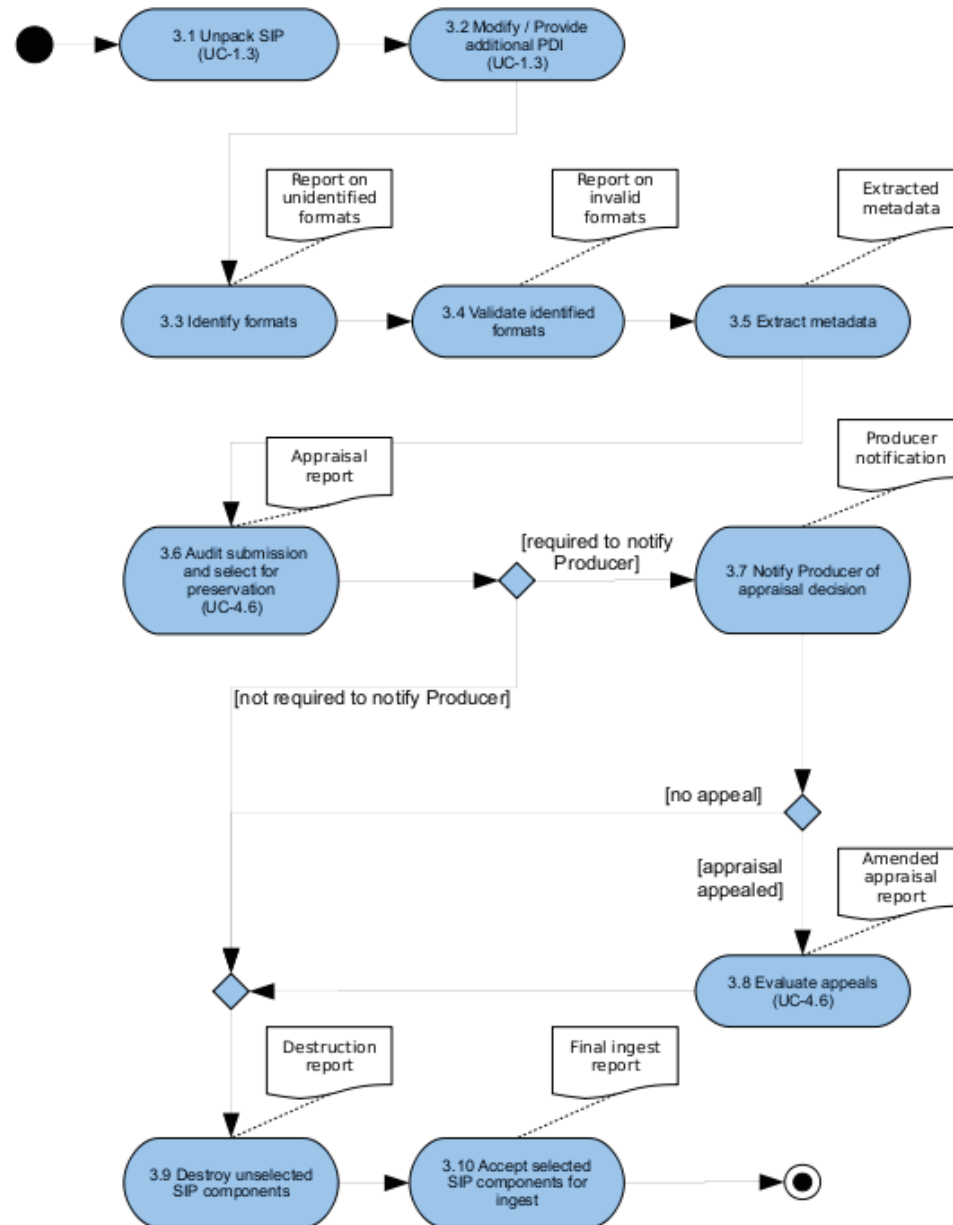
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Open Archival Information System (OAIS) reference model (ISO-STD 14721)



OAIS: Accept SIP for Ingest



Archivematica Dashboard - Mozilla Firefox





File Edit View History Bookmarks Tools Help










http://localhost/~peter/archivematica/index.php

Archivematica Dashboard

archivematica

Ingest SIP Store AIP Create DIP Monitor Preservation

SIP Status	Identifier	Title	Date received	Provenance
 quarantine	f08aac90-19b1-11df-8a39-0800200c9a66	TRIM transfer 2010-3	2010-01-27 15:24:22	City ERDMS system
 quarantine	f83f42a0-19b3-11df-8a39-0800200c9a33	Alfresco transfer 2010-2	2010-01-25 16:05:03	Public Works CMS system
 processing	292989c0-19b4-11df-8a39-0800200c9a44	Spearmonet Foundation transfer	2010-01-25 09:45:00	Spearmonet Foundation
 error	142569d0-29b4-11df-8a39-0800200c9b55	Franklin Family donation	2010-01-24 11:33:56	Franklin Family
 processing	99d432f0-1ffa-11df-8a39-0800200c9a66	TRIM transfer 2010-2	2010-01-19 14:12:47	City ERDMS system
 rejected	a49e5850-1ffa-11df-8a39-0800200c9c77	Alfresco transfer 2010-1	2010-01-18 10:17:21	Public Works CMS system
 completed	340c94ff-c62e-4ddd-a5f7-17016728fd0b	Parks and Recreation transfer 2010-1	2010-01-17 10:19:43	Parks and Recreation shared directories
 stored	66ab2273-cc87-464d-a1c6-81b632888c46	Fair Housing Society transfer	2010-01-16 13:34:06	Fair Housing Society transfer
 stored	91ce3f3d-20a8-4e42-825e-9cc1737dad6a	TRIM transfer 2010-1	2010-01-09 12:17:12	City ERDMS system

Done

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navigation

- [Main page](#)
- [Community portal](#)
- [Current events](#)
- [Recent changes](#)
- [Random page](#)
- [Help](#)

search

toolbox

- [What links here](#)
- [Related changes](#)
- [Special pages](#)
- [Printable version](#)
- [Permanent link](#)

[page](#) [discussion](#) [view source](#) [history](#)

Media type preservation plans

[Main Page](#) > [Documentation](#) > Media type preservation plans

Migration and emulation

Archivematica maintains the original format of all ingested files to support migration and emulation preservation strategies.

Normalization

Archivematica's primary preservation strategy is to normalize files to preservation and access formats upon ingest. The choice of access formats is based on the ubiquity of viewers for the file format. Archivematica's preservation formats are all [open standards](#). Additionally, the choice of preservation format is based on community best practices, availability of open-source normalization tools, and an analysis of the [significant properties](#) for each media type.

Media type preservation plans

Media type	File formats	Preservation format(s)	Access format(s)	Normalization tool
Application files	BAT , JS , JAR , PL , .PY , SQL , VBS			
Audio	AC3 , MP3 , WAV , WMA	LPCM/WAVE	MP3	FFmpeg
Portable Document Format	PDF	PDF/A	PDF/A	
Presentation files	PPT	ODF	PDF	Xena or OpenOffice Impress
Raster images	BMP , GIF , JPG , JP2 , PNG , TIFF , TGA	Uncompressed TIFF	PNG	ImageMagick
Raw camera files	NEF	DNG	PNG	DigiKam DNG Converter



<http://archivematica.org>

<http://artefactual.com/archivematica>