



Project no. 269977

APARSEN

Alliance for Permanent Access to the Records of Science Network

Thematic Priority: ICT 6-4.1 – Digital Libraries and Digital Preservation

D16.1 SOFTWARE REPOSITORY

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<u>Abstract</u>: This document reports on the software repository that has been set up by APARSEN and is being populated with information about preservation-related software. It outlines the features that the repository offers, particularly for categorisation and associating evidence of effectiveness in preservation.



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Author(s)	David Giaretta
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Document Status Sheet

Issue	Date	Comment	Author
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0.2	2012-10-17	Updates to include details of repository	David Giaretta
1.0	2012-12-12	Updates based on comments from internal reviewer, adding details for software updates.	



Project information

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Project coordinator: Simon Lambert/David Giaretta				
Address:	STFC, Rutherford Appleton Laboratory Chilton, Didcot, Oxon OX11 0QX, UK			
Phone:	+44 1235 446235			
Fax:	+44 1235 446362			
Mobile:	+44 (0) 7770326304			
E-mail:	simon.lambert@stfc.ac.uk / david.giaretta@stfc.ac.uk			



CONTENTS

1	INTRODUCTION	5
2	DESCRIPTION OF THE SOFTWARE REPOSITORY	6
3	ENTERING DETAILS OF ADDITIONAL SOFTWARE AND EVIDENCE	10
4	UPDATING SOFTWARE DETAILS	14
5	FURTHER DEVELOPMENTS	15



1 INTRODUCTION

This document represents deliverable D16.1, 'Software repository'. The deliverable is classified as 'Other' rather than 'Report'—it is the repository itself—but this report is submitted to explain the intent behind the repository, the way it has been implemented, and to give a brief overview of it.

The repository is located on the APARSEN public website at:

http://www.alliancepermanentaccess.org/index.php/knowledge-base/existing-tools/tools-for-preservation/

According to the Description of Work, the objective of WP16 is simple: to create and populate a repository of preservation-related software. This is motivated by a perceived need to move away from a situation where preservation-related software (understood to be publicly available, at least in principle) is distributed across a wide range of locations and in diverse ways, making it very difficult to retrieve and reuse.

The Description of Work envisages the possibility of depositing software itself in the APARSEN repository. At the present stage of development this has not been found necessary, as the emphasis has been on building up a set of software that is already accessible and so only requires linking. What the APARSEN repository (strictly speaking it is a registry/repository since it is to contain both actual software as well as pointers to software) adds is a uniform analysis and categorisation of preservation software, with where possible a base of evidence for judging its effectiveness in reality. It thus fulfils the expectation in the DoW that it 'will contain the software or pointer to the software together with descriptions, categorisations and annotations which will allow users to find appropriate tools for their requirements. Of particular importance is information about the strengths and areas of applicability of each tool. The system will allow users to provide their own evaluations and annotations.'

The Dow also says 'We will adopt a repository system within which can be deposited the source code, service modules and executables together with the required documentation about requirements that have been addressed, application and user guides, prototypical implementation examples, and metadata sets that allows one to find and retrieve the stored information as well as the licensing and contact details about their originators', As described in section 2, we adopt SourceForge.

The repository is designed to have a growing amount of content that may be added by registered users of the website.

This deliverable was originally expected to be submitted in February 2012 (Month 14 of the project). However it was deferred because of the dependency on WP14 'Common testing environments' because it became clear that it would be sensible to include the rough classification for digital objects described in WP14 in the description of the software¹. In that way we could provide a view on the applicability of software and their test environments to the various types of data. Again it should be emphasised that this classification is not meant to be exhaustive or definitive, and indeed it will almost certainly evolve over time; it merely provides a guide to help to check that we are considering examples outside our comfort zone. Nor is a specific digital object necessarily pigeon-holed in one classification. However we believe that this at least gives some guidance to users.

Grant Agreement 269977

¹ See for example <u>http://www.alliancepermanentaccess.org/index.php/knowledge-base/existing-</u>tools/tools-for-preservation/rough-classification-of-digital-objects/



2 DESCRIPTION OF THE SOFTWARE REPOSITORY

The user view of repository has been implemented as a set of web pages under the APARSEN area of the website of the Alliance for Permanent Access. Much of the software we list are already homed in one or other repository and so while that is the case it seems sensible to leave it there. However for examples of orphan software (i.e. ones from closed projects and not being actively supported) we propose to use the SourceForge repository <u>http://digitalpreserve.sourceforge.net/</u> where we are not forbidden from doing so. Otherwise we will keep the source code in a dark repository associated with the website.

The following screenshots illustrate some of the important features, including the introductory page (Figure 1), and examples of: listing of software with basic information (Figure 2); detailed information for one piece of software (Figure 3) and example of the connection between software and evidence (Figure 4)

	Community Training	Consultancy and Services	Knowledge base	About APA	About APARSEN
		CPA CONTRACTOR OF CONTRACTOR O	Keeping digita understa		s accessible, easy to find
Evidence-	based tools	for preservat	ion		
Home / Knowledge base	e / Tools / Evidence-base	d tools for preservation			
It is an attempt to build an		is not just another such list. tion tools, and in particular to data.	Login try to USERN		
data and the evidence of		n related software, example tware to types of data. Some of from user scenarios.	PASSW	ORD	
-	for the evidence is being coll may contribute comments abo	ected and the average is displa ut all the above.	yed. In	MEMBER ME	
preserving a particular set has worked for similar dat or for data that has been	t of digital objects because he ta by searching for software used with selected softwa re	ne who has the responsibility o e/she can find information abou used with selected types of re, supported by the associated arios may also provide useful	t what or Reg data Sear	gister for an acco ch rch	unt

Figure 1 Front page of the repository

The aim is to provide more than just another collection of pointers to software. We aim to provide at least some indication of where that software has been found to be effective in preservation. A number



of different ways of searching are provided: select software to preserve a type of data; select data types which can be preserved with certain software; see the evidence which supports claims of effectiveness. A user rating scheme is also in place which will help users to prioritise the selection preservation strategies. Registered website users can also contribute comments and suggestions.



Link to more details	Short description	OAIS role	Objective
Text print software	Print simple text fie	Use – rendering	Render text
(PiM) Toolbox	The Library of Congress and the Florida Center for Library Automation developed the PREMIS in METS (PiM) Toolbox. The project provides PREMIS:METS conversion and validation tools that support the implementation of PREMIS in the METS container format.	Preservation description information	
PLATO - Planets Preservation Planning Tool	Preservation planning tool for migration strategies checked with significant properties (TBC)	Preservation Planning	
MIXED	Migrate content to XML format and then convert to new format.	Migration	Transform digital content to XML
Format Identification for Digital Objects (FIDO)	Format Identification for Digital Objects (FIDO) is a Python command-line tool to identify the file formats of digital objects. It is designed for simple integration into automated work-flows.		Tool to identify file formats of objects which can be used in an automated workflow.
Information Tool Set)	FITS identifies, validates, and extracts technical metadata for various file formats. It wraps multiple third-party open source tools (JHOVE, Exiftool, National Library of New Zealand Metadata Extractor, DROID, FFIdent, and the File Utility), normalizes and consolidates their output, and reports any errors.	Data management	
EZID	 EZID (easy-eye-dee) makes it easy to create & manage unique, long-term identifiers create identifiers for anything: texts, data, bones, terms, etc. store citation metadata for identifiers in a variety of formats update current URL locations so citation links are never broken use EZID's programming interface for automated operation at scale choose from a variety of persistent identifiers, including ARKs and DataCite DOIs 	Reference	
Preservation	The Digital Preservation Software Platform (DPSP) is free and open source software developed by the National Archives of Australia. The DPSP is a collection of software applications which support the goal of digital preservation.	Transformation - Nonreversible	
	DROID (Digital Record Object Identification) is a software tool developed by The National Archivesto perform automated batch identification of file formats.	Structure RepInfo	To identify the format (Structural Representation Information) of digital objects

Figure 2 Partial list of entries in repository with basic information



FITS (File Information Tool Set)

Posted SEP 4 2012 by APADIRECTOR

Overview:	FITS identifies, validates, and extracts technical metadata for various file
	formats. It wraps multiple third-party open source tools (JHOVE, Exiftool,
	National Library of New Zealand Metadata Extractor, DROID, FFIdent, and
	the File Utility), normalizes and consolidates their output, and reports any
	errors.
Brief description:	FITS identifies, validates, and extracts technical metadata for various file formats. It wraps multiple third-party open source tools (JHOVE, Exiftool, National Library of New Zealand Metadata Extractor, DROID, FFIdent, and the File Utility), normalizes and consolidates their output, and reports any errors.
Objectives:	
Full description:	The File Information Tool Set (FITS) identifies, validates, and extracts technical metadata for various file formats. It wraps several third-party open source tools, normalizes and consolidates their output, and reports any errors. FITS was created by the Harvard University Library Office for Information Systems for use in its Digital Repository Service (DRS).
	The current tools used are:
	Jhove (LGPL version 2.1 or any later version)
	 Exiftool (GPL version 1 or any later version; or the artistic license)
	 National Library of New Zealand Metadata Extractor (Apache Public License version 2)
	DROID (BSD (new version))
	FFIdent (LGPL)
	Note that the live site for ffident which was
	http://schmidt.devlib.org/ffident/index.html seems to
	have disappeared - we are now linking to Internet Archive's
	version of the ffident website.
	 File Utility (windows) (revised BSD)
Language:	Other
Author: Licence:	LGPL
From:	http://code.google.com/p/fits/
i i uni.	http://courseogration/p/nts/

Figure 3 Detailed entry information using the example of File Information Tool Set (FITS)

Information collected about each piece of software follows the SWO ontology².

Grant Agreement 269977

² <u>http://theswo.sourceforge.net/</u>



Link to more details	Description of evidence	TestbedEvidence	Attached evidence	Rating	Data link	Software link
ESA use of DRB	of satellite data in their archives, together with tools which extract the				lata -	DRB - Data Request Broker

Figure 4 Example of evidence relating to software

3 ENTERING DETAILS OF ADDITIONAL SOFTWARE AND EVIDENCE

After logging in to the website, an authorised user can click on the "Manage Page" button in the right hand panel.

n Dashboard		WordPress 3.5 is available! Please upda	de now.		
Updates Assemet Stata	Dashboard				
BuddyPress	Right Now		QuickPress		
and the second sec	Content	Discussion	Title		
Ø Posts	93 Posts	8 Comments	Upload/Insert (12)		
18 Media	235 Pages	8 Approved	Content		
🖗 Links	26 Categories	O Pending			
[] Pages	2 Taga	O Span			
Comments		2 Pending Pages			
P Software	Theme APA with 21 Widgets		Tags		
🖉 Data	You are using WordPress 3.3.2	(Update to 3.5)	Save Draft Reset		
🖗 Data searches	Akismet has protected your site from 11 spam comments already.	Conceptor (reset			
P Testbed evidence	There's nothing in your spam queue at the moment.				
🖉 Testbeda			Recent Drafts		
User scenarios	Recent Comments		Digital object identifier (DOI) be		
P FAQs	and the second se		ISO 26324 2012, Information and docu		
III, Stream Video	Incoming Links				
P Appearance	This dashboard widget queries Google Blog Search so that when an there is no rush.	other blog links to your site it will show up here. It has found no incoming links yet. It's ukay			
Plugins			WordPress Blog		
	Plugins		2012: A Look Back January 1, 201		
8 Users		Another year is coming to a close, and than ever, and some of the accomplish			
Ti Tools	Most Popular Advanced Custom Fields (metal)	[]			
IT Settings		ing a professional interface and a powerfull API, it's a must have for any web dev	WordPress 3.5 "Elvin" December		
Types	Newest Plugins		It's the most wonderful time of the y "Elvin" in honor of drummer Elvin Jor		

Figure 5 Manage page screen

Then select "Software" then "Add New"



🔒 Dashboard	
Home Updates 2 Akismet Stats	Dashboard
BuddyPress	Right Now
🔊 Posts	93 Posts
៊ែតូ Media	235 Pages
Links	26 Categories
Pages Comments	2 Tags
Software	Software
∠ Data	Add New OAIS keywords ess 3.3.2.
🖉 Data searches	Akismet has protected your site from 11 spam comments
A Testbed evidence	There's nothing in your spam queue at the moment.
A Testbeds	Recent Comments
☆ User scenarios ☆ FAQs	
Stream Video	Incoming Links
10	This dashboard widnet quaries Google Blog Search so th

Figure 6 Select "Add New" software

The following screenshots capture the input page in sections.

🚯 APA 😋 2	+ New	Howdy, APADirector 🕅
Dashboard	WordPress 3.5 Is available? Press update now.	Screen Options *
BuddyPress	Add New Software	
🖉 Posts	Enter title here	How-To Display Custom Content
🖓 Media	Curatione task	Views let's you create templates, query
Pages		content from the database and display it.
Comments	tpeanhavet 0) @ 0 ↓	Create View Templates for single pages »
 Software 		Create Views for content lists >
Software		Content Template
Add New OAIS keywords		Software single page template
P Data		
P Data searches		Publish
P Testbed evidence	Path p Word could be a set of the	Save Draft Preview
P Testbeds		Status: Draft Edit
🖉 User scenarios	Software description	Visibility: Public Edit
🖉 FAQs	Information about software - based on SWO project ontology (see http://theavo.sourceforge.net/)	101 Publish immediately Edt
🔣 Stream Video	Short description	
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D Event Espresso	Description of what this software does	
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	- Intel 400g - Instruct exclusion 	



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D16.1 Software Repository



relination specification erelination erelination erelination is a broad name for an output of an execution of a data mining algorithm on a specific dataset. A generalisation is an informational entity that specifies the type of the generalisation such as decision noise, decision noise, neural networks, termsets etc.	
08	
ber or name assigned to a piece of software used to Stated's State of Software	
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f Ber Alve e.g.: Onlige representation where earen direktigeer	

Figure 7 Form for adding new software

To add evidence one can click on "Testbed evidence" then "Add New"

Media	235 Pages		
de Links	26 Categora	n (
Pages	2 Tags		
Comments			
s? Software	Theme APA with	21 Widgets	
🖉 Data	You are using WordPress 3.3.2.		
🔊 Data searches	Akismet has prot	ected your site from 11 spam com	
A Testbed evidence	Testbed evidence	spam queue at the moment	
P Testbeds	Add New		
🖉 User scenarios	OAIS keywords Data types		
🖉 FAQs	Incoming Lin	iks	
	the sum is an		

Figure 8 Select "Add New" Testbed evidence

The form is as follows:

	+ New	Howdy, APADirector
BuddyPress	Add New Testbed evidence	
🖉 Posts		
Can Media		How-To Display Custom Content
and Links		Views let's you create templates, query content from the database and display it.
Pages	Upbadheer 📆 💮 🔇 🖡	Create View Templates for single pages »
Comments	B / m 日日 4 単本語 2 2 月 型・2 2 8 8 2	Create Views for content lists >
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🖉 Data searches		Evidence single template
📌 Testbed evidence		
Testbed evidence		Publish
Add New OAIS keywords	Patrip	Save Draft Preview
Data types	Word count: 0	Status: Draft Edt
🖉 Testbeds		
🖉 User scenarios	Evidence	Visibilty: Public Edit
🖉 FAQs	Testeed evidence about affectiveness of software with specific types of data.	Dubish immediately Edt
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Figure 9 Adding new evidence

After saving this the following appears at the bottom of the form:

	Fields table	
Data ESA teel data - vertices science files Explain	This testbedevidence beiongs to:	
	Software DRB - Data Request Broker	L Update
Testbeds Not selected 🔍 Update	Data ESA test data - various science files	(ippane)
	Testbeds Not selected Update	

Figure 10 Additional fields to link Data and Software to the Evidence

After selecting from each of the dropdown boxes in turn, the "update" button beside the dropdown should be clicked.

4 UPDATING SOFTWARE DETAILS

Details for any piece of software may be updated/edited by selecting "Software"

npa Q 2		
n Dashboard		
Nome Updates () Akamet Stata	@ Dasht	oard
	Right Now	
@ BuddyPress	Content	
🖉 Posts	93 Posts	
🚓 Media	235 Pages	
& Links	26 Categorie	
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🔊 Data	Add New OAIS keywords	ess 3.3.2
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& Testbeds		

Figure 11 Select "Software" for a list of all software



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	Appearance	Digital Preservation Services	9	2012/04/08 Published	
		DRB - Data Roquest Broker	0	2012/09/01 Published	

Figure 12 Select the software entry to edit

The software details can be edited and the changes saved by clicking on "Updated"

adverse advers	ashboard	WordPress 3.5 is available Peese update now.	Screen Option
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Figure 13 Form to edit software details

5 FURTHER DEVELOPMENTS

WP16 runs until the end of the project in Month 48. In future, the repository will be enhanced by the addition of further content – we aim to harvest information from as many of the extant lists of software and, with the help of comments from the community, to provide useful evaluations. Where we find orphan software which we have reason to believe fill a gap then we will do our best to take over the source code so that it is not lost, but we cannot provide any guarantees of support. We will also try to take source code snapshots even of software that does have a home and store a copy; this copy will be kept in the dark repository associated with the website rather than SourceForge, to avoid confusion.

We will ensure that the software and website can be continued by the Virtual Centre of Excellence.