

DigCCurr 2009 Digital Curation Tools and Demos II

Mediapedia:

managing the identification of media carriers.

Prometheus:

managing the ingest of media carriers at the NLA.



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Digital Preservation Section, National Library of Australia.



The Problem

Context originally behind these two tools:

- The Library has a relatively small but important collection of digital materials stored on 'common' media carriers such as floppy disks, CDs and DVDs.
- This includes both published and unpublished manuscripts in digital form.
- Content stored on these carriers is at-risk and needs to be ingested into the NLA managed storage system in a systematic manner.















Obsolescence





Factors such as obsolescence of the technology required for access and carrier deterioration already make it difficult for digital preservation solutions to preserve access to digital content.



The Digital Preservation Section at the NLA divided this particular problem into two main components.

- 1. Understanding the problem. Having mechanisms in place to:
 - understand the consequences for collecting content on problematic carrier types;
 - identify the carriers types;
 - identify the requirements for access each of these carrier types;
 - have a place to record information that we found out; and
 - share it with others.

Hence Mediapedia.

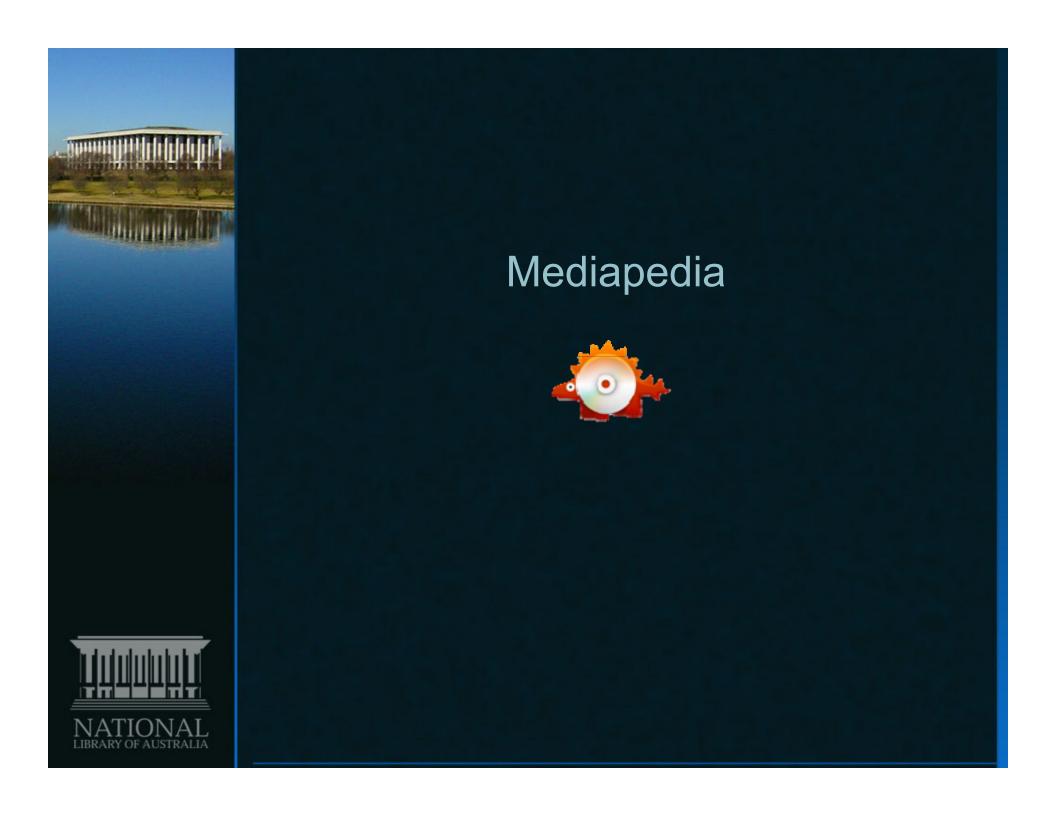
- 2. Do something about the Problem. Having mechanisms in place to deal with the less problematic media carriers by designed a system and processes which are:
 - semi-automatic;
 - modular; scalable (able to deal with multiple carrier types); and
 - to automatically harvest and generate appropriate metadata for future access.

Hence Prometheus.

The acquisition of digital materials on carriers is a constantly growing problem. Therefore, the NLA had to address:

- whether to collect content on particular carriers in the first instant;
- processing the carrier backlog; and
- adding to the backlog.









Mediapedia



Mediapedia (soon to be a community web-base service for carrier identification and knowledge) aims to:

- be a curated repository for business knowledge and be a 'trusted' sources;
- enable the identification with a low level of audience knowledge;
- cater for both general and specialists audiences;
- contain additional information about dependencies (such as hardware, connectors, interfaces, software, etc.) and access paths for usage which are not currently represented in other sources such as Wikipedia; and
- be a web based service which can be integrated internally or externally to other services.



















































Media Genre is a categorisation of the carrier(s) of a resource, reflecting in general terms the type of content.

 Data, Microform, Moving Image, Sound, Still Image & Unmediated.

Type of carrier is a categorization of the carrier(s) of a resource, reflecting in general terms the format of the physical storage medium which when in combination with the type of intermediation device enables accessing the resource.

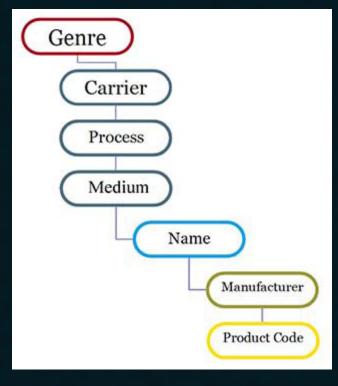
 e.g. tape reel, disc, disc / disk cartridge, cylinder, paper, etc.

Type of process is a categorisation to record the type of process used to record the information on the physical media.

 e.g. magnetic, magnetic/optical, mechanical, optical, photo chemical, photo mechanical, photo digital, solid state, etc.

Form of the recording medium is a categorization of the recording medium, reflecting in general terms the instance of the form of the underlying recording medium.

Name of carrier is a categorization of the common name or registered trademarked name of the physical media carrier utilised to store a resource.



























Home Mediapedia

Mediapedia Modules

1.2.058 - based upon SP1.0v5



Notes Log



Genres

Timesheets

Preferences

















Common Processes

Misc. Modules

Secondary Modules

Documents

Candidate Line Items

> To Do Items

Holotype Line Items The buttons contained on this tab are not "primary" modules of Mediapedia

Once pressed, each of these "secondary" module buttons will navigate to a basic Table View screen for that specific module.

Add: Glossary, Data Dictionary and Standards (aka Help pop-up)















Based upon open source FileMaker template - FM Starting Point 1.0v5 • © 2009 Copyright All Rights Reserved























Search

Mediapedia 💨

"Hold the SHIFT key to select multiple Genres"

Press 'Enter' to start Search!



Media Genre

Carrier Type Process Type

Medium Type

Name Product

Manufacturer

Product Code

Market Sector

Physical Dimensions: Height Units = mm Width Diameter Depth

Running Length

Distinguishing Features

Marketted Capacity

Materials

Conservation Assessment































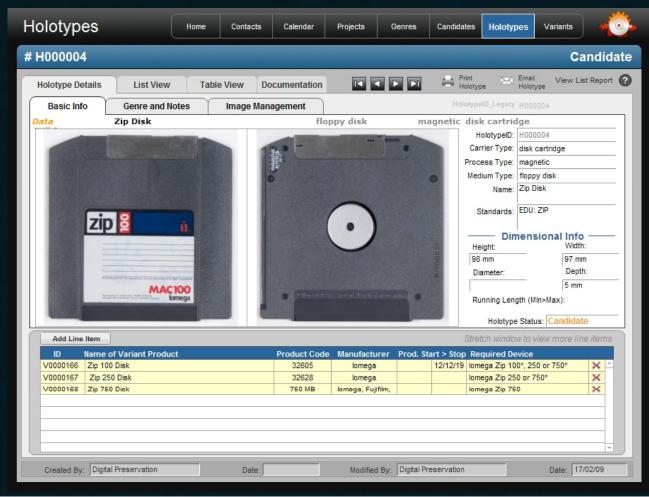


























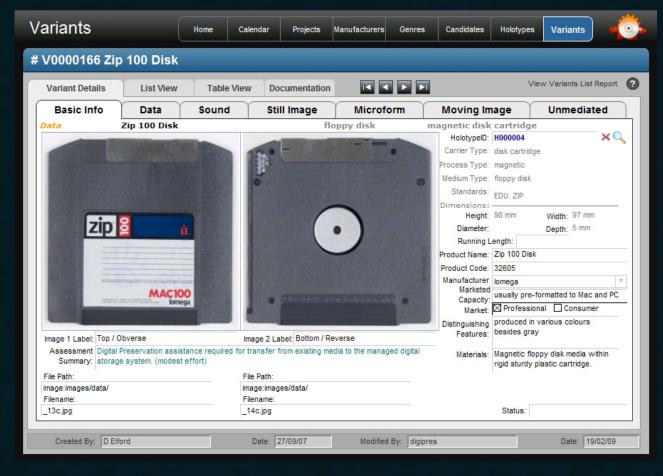




































	_	00 Disk			_				View \	/ariants List Report
Variant Details Basic Info		List View	Table	Table View Documentation				New Variants List Rep		
		Data Sound		Still Image		Microform		Moving Image		Unmediated
	Zip	100 Disk			1/2" ope	n reel	m	agnetic tape ree	el	1001
Additional	Requirements	Asseted	Devices	Magnetic Disk/Car	rtridges	Magnetic Tape	e	Magnetic-Optical	Optical	Solid State
DP AssetID	Process	Carrier	MFG	Model	Manifestati	on Interface F	Form Factor	READ	WRITE	
P00022	magnetic	disc cartridge	lomega	Zip 250 USB	External	USB 1.0		250 Mb. 100 Mb.	250 Mb. 10	00 Mb.
P00159	magnetic	disc cartridge	lomega	ZIP 100 USB #31714	External	USB 1.0		100 Mb.	100 Mb.	
P00387	magnetic	disc cartridge	lomega	ZIP SKU# 32328 750	Internal	APATA 5	5.25"	750 Mb. 250 Mb. 100 I	Nb. 750 Mb. 25	50 Mb.
P00388	magnetic	disc cartridge	lomega	ZIP SKU# 32328 750	Internal	APATA 5	5.25"	750 Mb. 250 Mb. 100 I	Mb. 750 Mb. 25	0 Mb.
P00395	magnetic	disc cartridge	lomega	ZIP 100 Internal	Internal	IDE 3	3.5"	100 Mb.	100 Mb.	
P00414	magnetic	disc cartridge	lomega	ZIP SKU# 32324	Internal	APATA 5	5.25"	750 Mb. 250 Mb. 100 I	Mb. 750 Mb. 25	50 Mb.
P00415	magnetic	disc cartridge	lomega	ZIP 100 Z100USB	External	USB 1.0		100 Mb.	100 Mb.	
P00473	magnetic	disc cartridge	lomega	Zip 100 Z100S2 SCSI	External	SCSI		100 Mb.	100 Mb.	















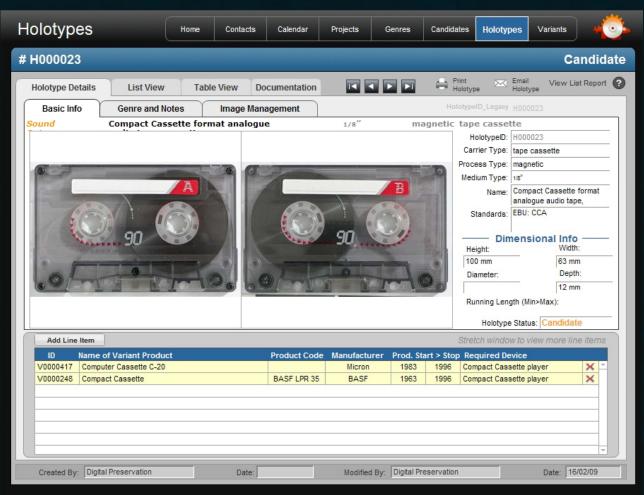


























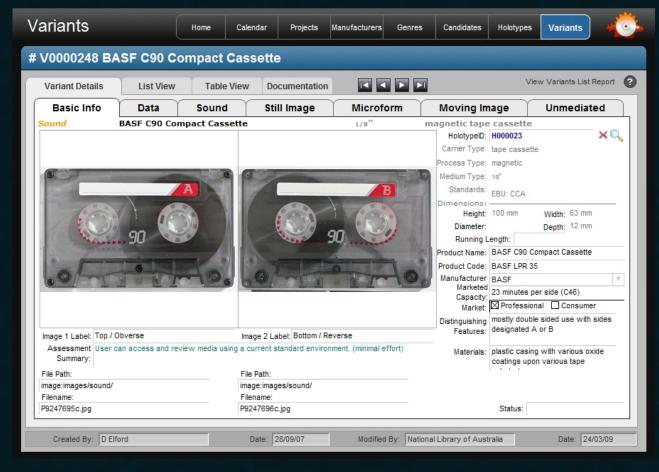




































ariant Details	List View	Table Viev	Documentation		View Variants List Rep			
Basic Info	Data	Sound	Still Image	Microform	Mo	oving Image	Unmediated	
BA	SF C90 Com	pact Cassette	1/2"	open reel	magn	etic tape reel		
Additional Requirements	Assete	d Devices	Materials: Tape Variants	Materials: Disc	Variants	Materials Issues	Tape Digitisation	
Sound Tape II	V0000248			BaseThickness	20			
Product Nam	e BASF C90 Con	BASF C90 Compact Cassette			11			
Product Cod	e BASF LPR 35			TotalThickness	35			
Proces	5				4 / black			
Prod Star					320			
ProdSto					25			
Application_Binde	Domestic Tape			Retentivity				
Oxid			▼	Retentivity mT Remanence	165			
Bas	,			Remanence SatFlux	1800			
Life Expectanc	y Life MFG	100 Life	Community 50	Remarks	1000			
							w	
					Web Refe	erence - Materials		









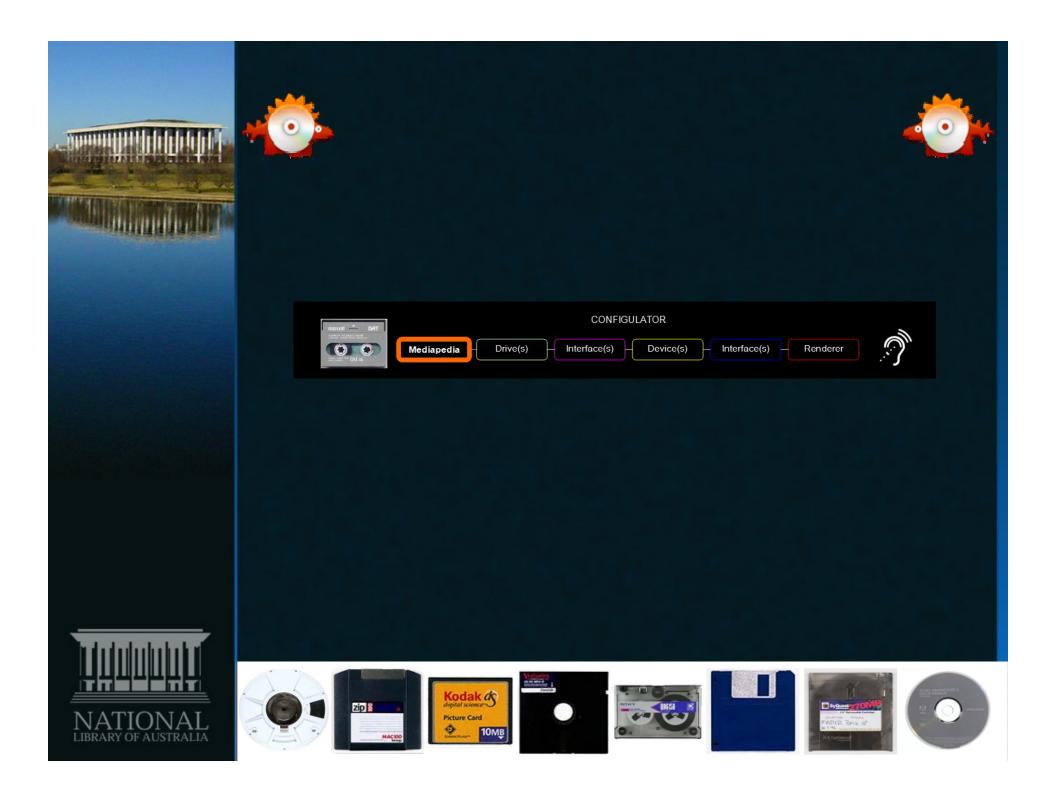














Prometheus







Centralised Model





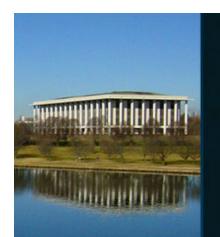






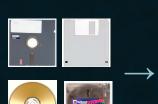






De-Centralised Model









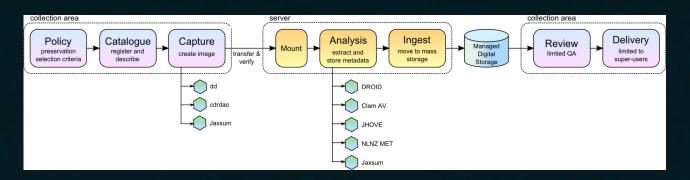








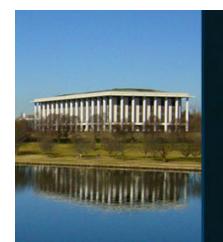
Data Model

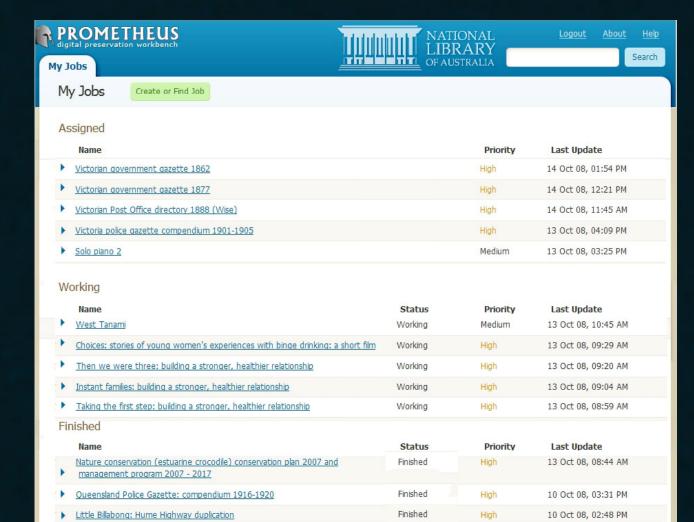


- dd for Windows, at http://www.chrysocome.net/dd
- cdrdao, at http://cdrdao.sourceforge.net/
- Jaxsum Java checksum utility, at http://sourceforge.net/projects/jacksum/
- DROID automatic file format identification tool, at http://droid.sourceforge.net/wiki/index.php/Introduction
- JHOVE object validation environment, at http://hul.harvard.edu/jhove/
- National Library of New Zealand Metadata Extraction Tool, at http://meta-extractor.sourceforge.net/



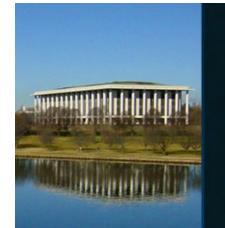












Create or Find Job

Confirm Details

Bib ID	4502292
Author	Cronin, Stephen, 1960-
Title	Vocalise [music] : for choir and audio track/ Stephen Cronin.
Description	1 vocal score (9 p.) ; 30 cm. + 1 CD-ROM
Holdings	Choose holdings: MUS Nmt 783.16 C947

Start again

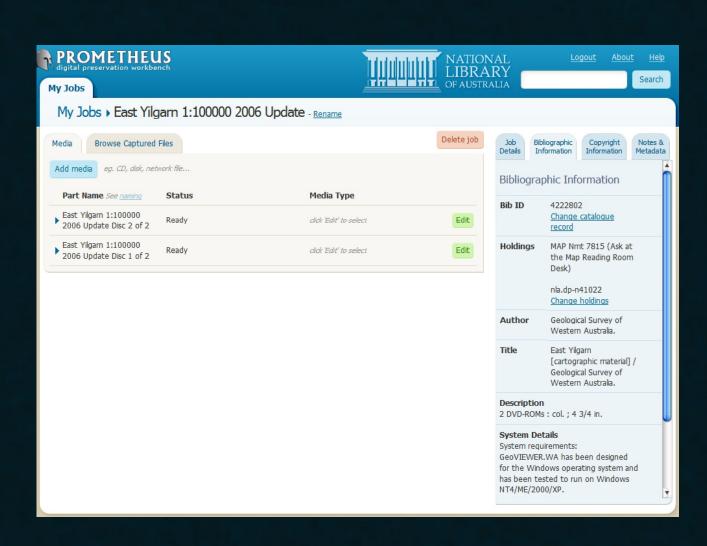
Cancel

Check for Existing Jobs



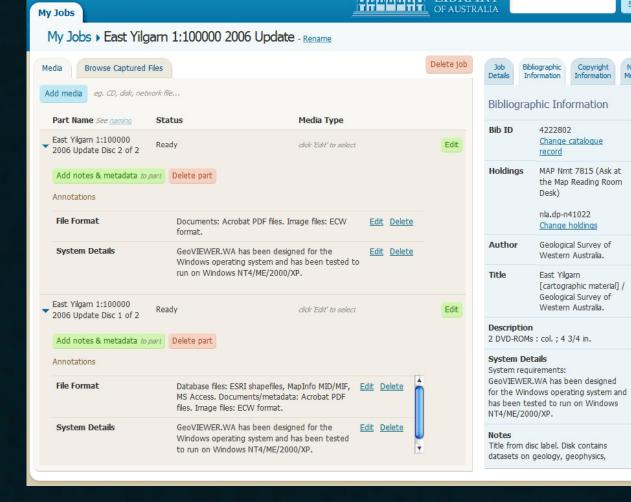












PROMETHEUS



Search

Notes & Metadata

Bibliographic

4222802

record

Desk)

nla.dp-n41022

Change holdings

Geological Survey of

Western Australia.

Western Australia.

East Yilgarn [cartographic material] / Geological Survey of

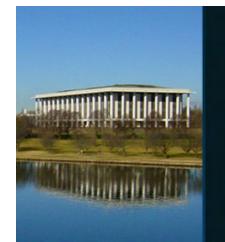
Change catalogue

MAP Nmt 7815 (Ask at

the Map Reading Room

Information

Copyright



Select Media Type

Please contact Digital Preservation if your media is not listed here.



CD-ROM or DVD-ROM



External Hard Disk or USB



Floppy Disk (3.5 inch)



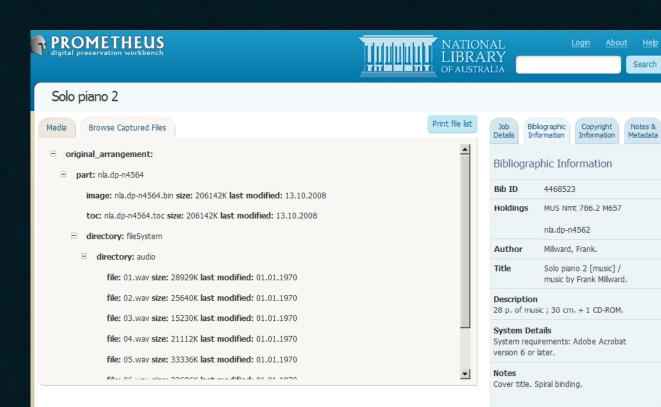
File

Cancel









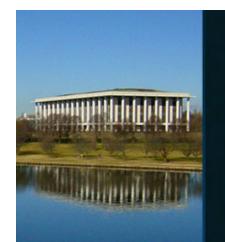










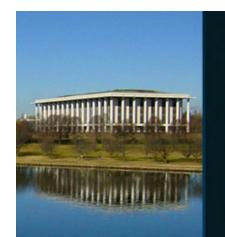


Problems so far

- Even though it is 'open source', it would only work for others with significant effort. It is linked to NLA specific closed databases/services
- Too much redundant metadata
- In some cases cataloguers are not entering meaningful data
- Web service bottlenecks
- Database bottlenecks







The Project Status

Current Status:

- Version 1.0 beta finished July 2008
- User acceptance testing and bug-fixing July-August 2008
- Handed to IT for further enhancements August 2008 (Versions 1.1-1.3)
- Version 1.4 for release June 2009 (to include: reporting, system optimisation, metadata review, part-stubs)







The Incredible Team











Everything, for Everyone Forever

Mediapedia Mediapedia Information http://www.nla.gov.au/mediapedia/



Prometheus Sourceforge Website:

http://prometheus-digi.sourceforge.net/

Prometheus Articles:

Elford, D., del Pozo, N., Mihajlovic, S., Pearson, D., Clifton, G. and Webb, C. 2008. Media Matters: developing processes for preserving digital objects on physical carriers at the National Library of Australia. In World Library and Information Congress: 74th IFLA General Conference and Council 10-14 August 2008, Québec, Canada www.ifla.org/IV/ifla74/papers/084-Webb-en.pdf.

Pearson, D. 2008. Titans in the Library: Prometheus Unbinds At-risk Data. In Gateways Dec 2008. http://www.nla.gov.au/pub/gateways/issues/96/story02.htm.



