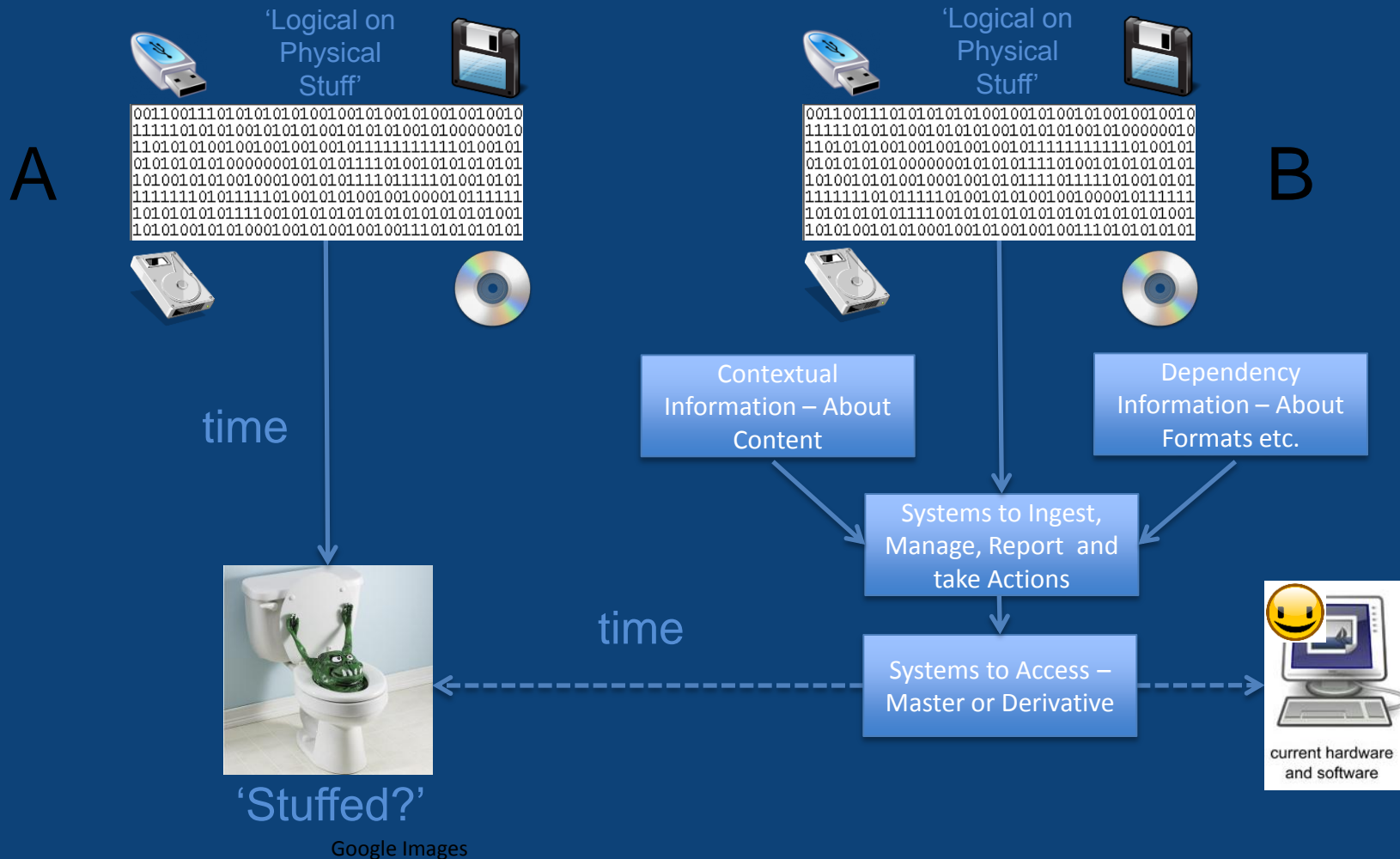


**‘If a tree falls in the forest’:
recording and sharing digital
preservation knowledge on formats,
software and dependencies at the
NLA.**

David Pearson
National Library of Australia -
CurateGear
6 January 2012 (UNC)



Mission: The primary objective of preservation activities within the NLA is to maintain the ability to meaningfully access digital collection content over time.



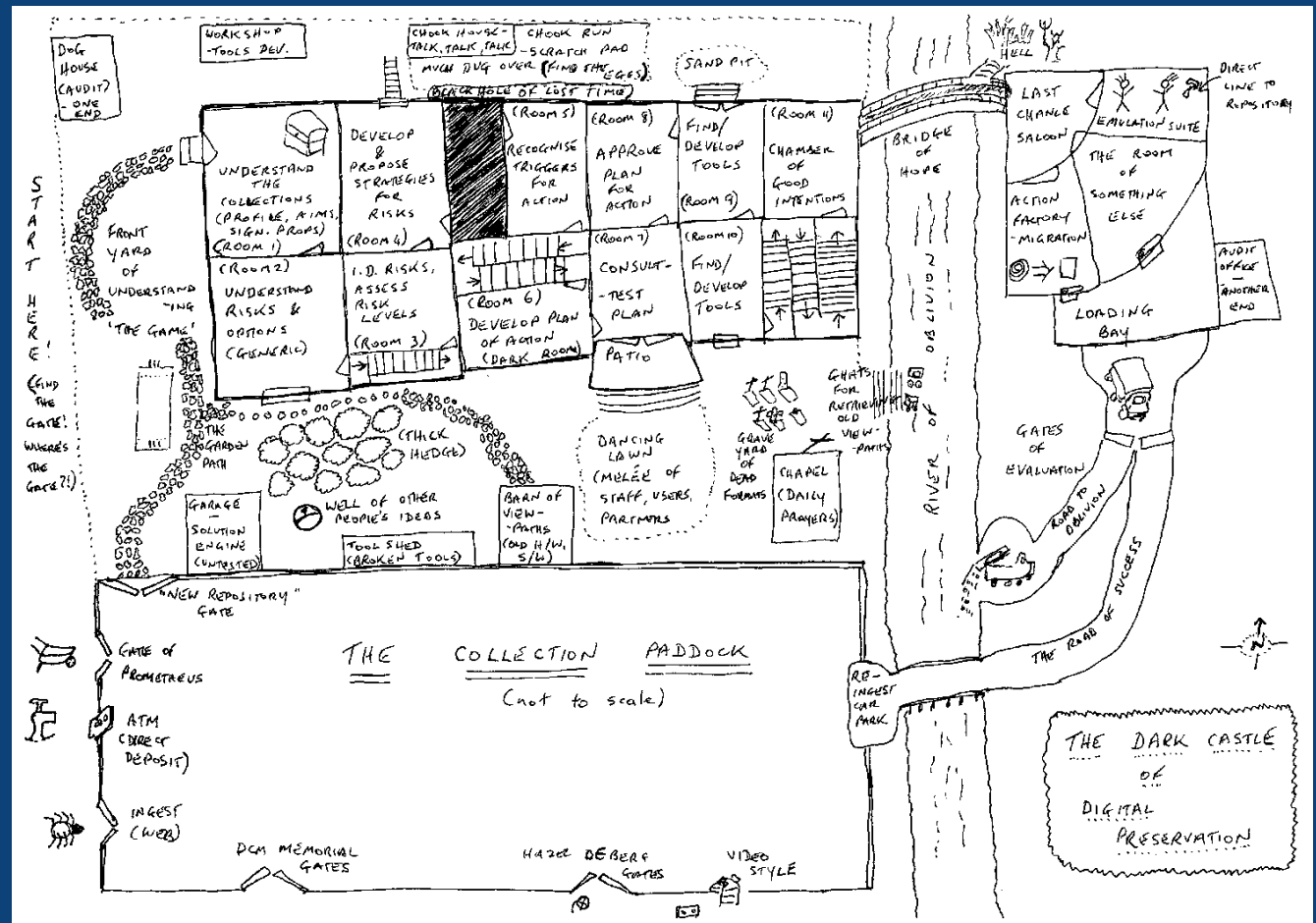


Required preservation processes

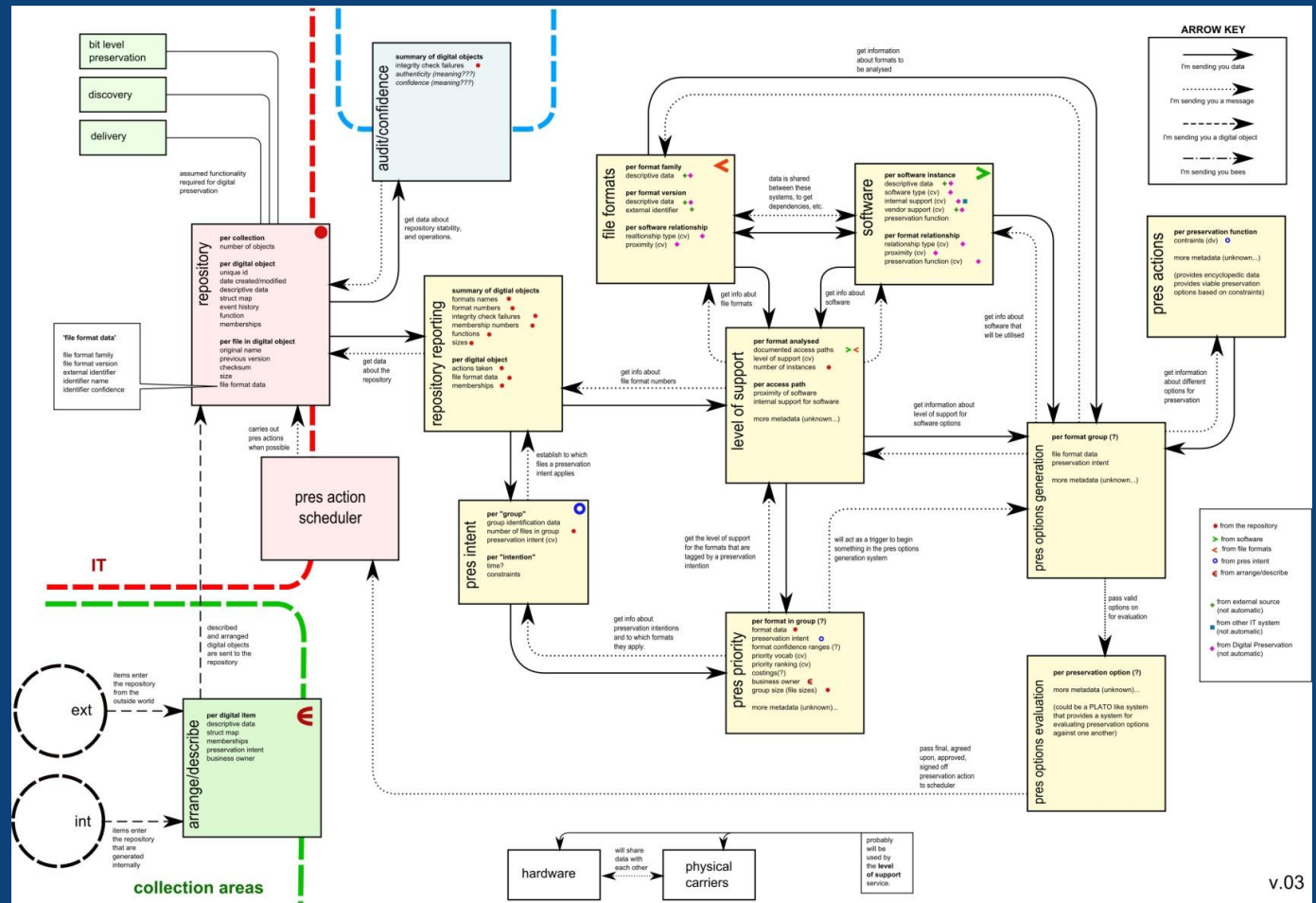
The Library must be able to:

- Understand what it holds in its collections;
- Understand what its preservation intentions are for every digital object and what it is entitled to do to realise its intentions;
- Understand what is required to provide access, existing inhibitors to access, and the current level of support the Library is able to provide;
- Evaluate and monitor the degree of risk arising from collection composition, preservation intentions and available level of support within the Library for digital collection content, and monitor for risk conditions arising during general Digital Library operations;
- Anticipate the effects of changes in support;
- Recognise planning triggers, and plan and take appropriate action on a scale appropriate to the size of the target; and
- Audit the effectiveness of its preservation arrangements and modify the arrangements if necessary.

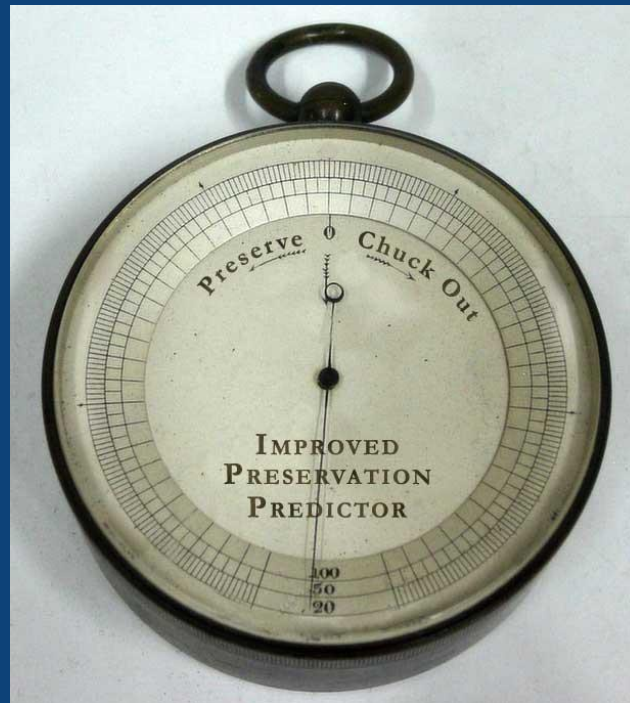
Given this we designed this data model for expressing some of these concepts:



Perhaps we will use this model instead?:



The Library expects to take into account indicators of 'preservation intent', 'significance', and 'level of support' within monitoring and reporting activities, and in evaluations of risk and prioritisation for preservation planning and action.





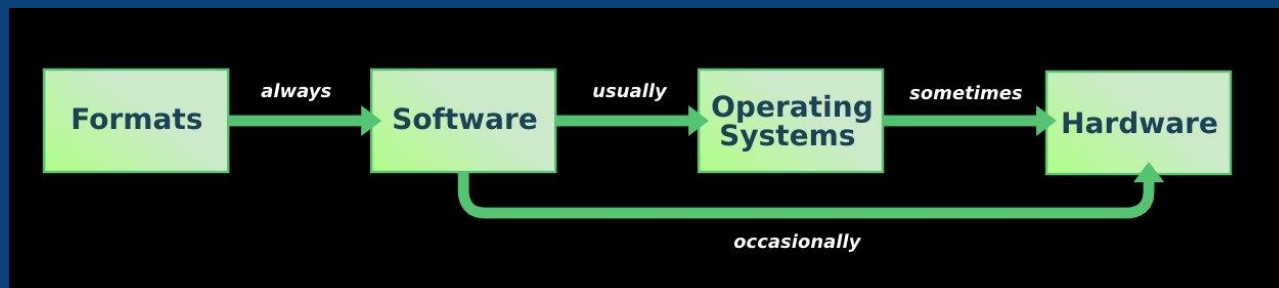
Preservation intent – indicates the expectations for preservation for content:

- whether content is to be preserved;
- who is responsible for preservation of the content;
- the period over which content must be preserved;
- the required level of support for access to the content over time; for example, that the Library intends to actively maintain the ability to both present and modify content, or only to present content, or does not intend to actively maintain access to content beyond its expected useful life.

Preservation intent may also extend to include more specific characteristics to be supported, based on curatorial input or constraints imposed by rights policies or agreements with rights holders.

Significance – indicates the relative priority required for taking preservation action to maintain access to content, as determined by collection curators; for example, content rated as highly significant would be prioritised for preservation planning and action before content of lower significance.

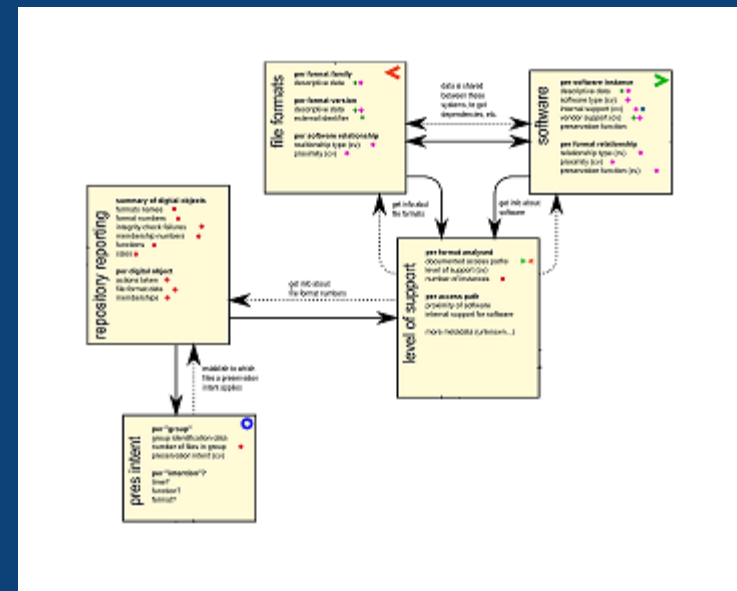
Level of support – indicates how well a digital collection object is supported within the Library, based on a combination of how much is known about the object and its components (including their file formats), and the degree to which supporting software or hardware environments are available.



Reference knowledgebases

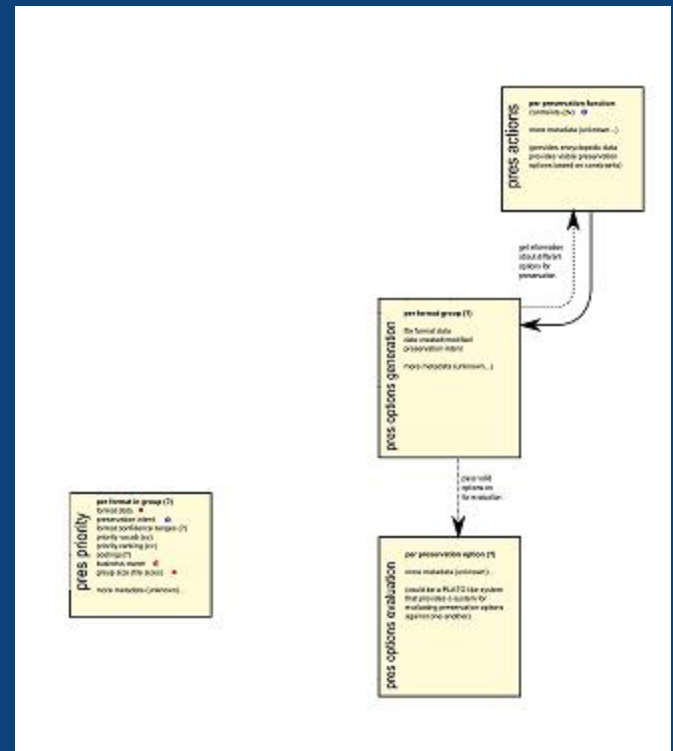
Enable staff to create, update and maintain reference information knowledgebases on:

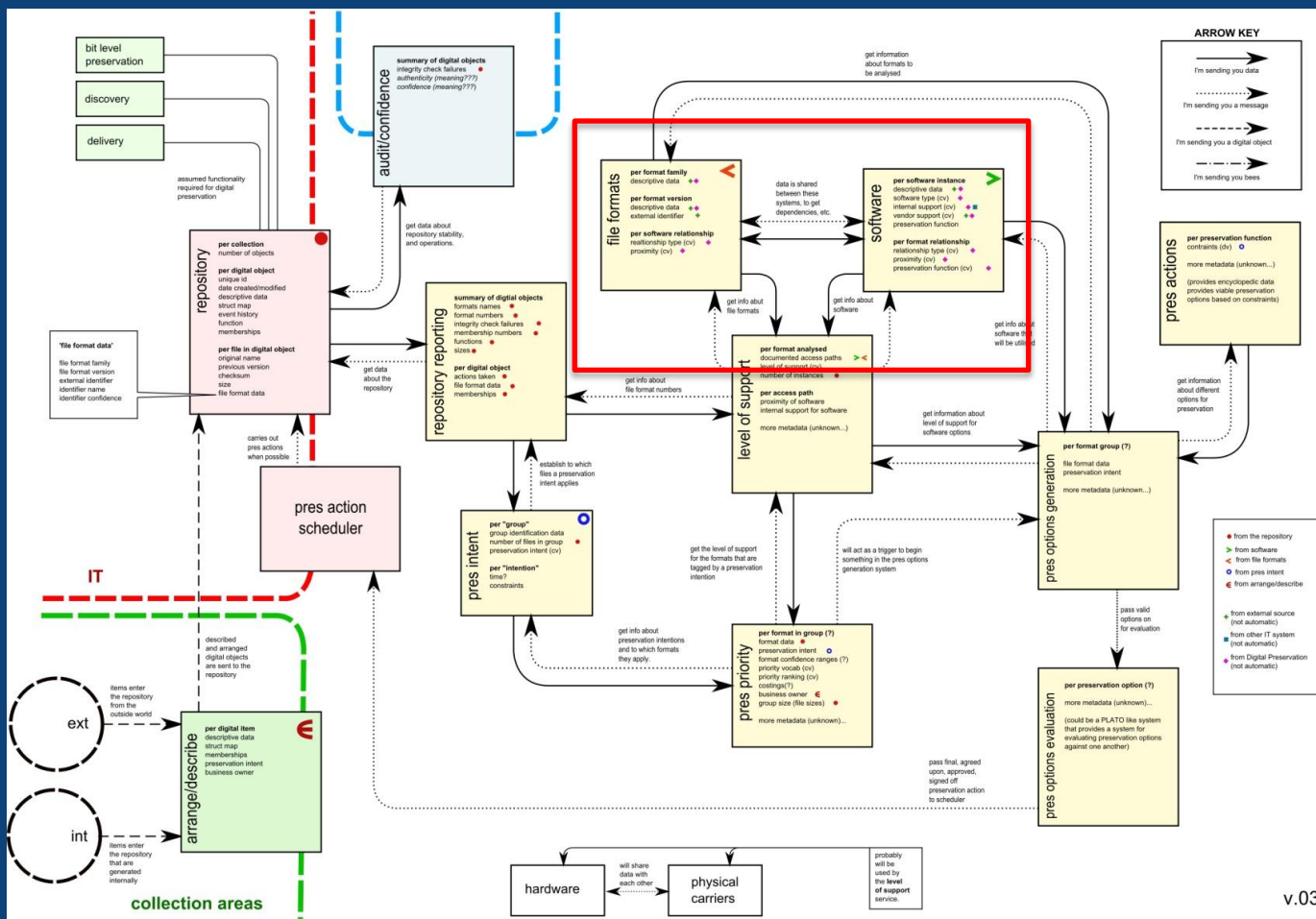
- a. File formats and versions
- b. Software and hardware components that support access to file formats and versions, for maintaining access to managed content;
- c. The level of support available for particular file formats and versions:
 - i. sets of software or hardware components available to support access to formats;
 - ii. functions supported, both for providing access to content and for use in preservation action – for example, presentation, modification, batch processing;
 - iii. fidelity of support – how well functions are supported; and
 - iv. known risks, including potential inhibitors to preservation, associated with formats or supporting software or hardware;
- d. Preservation intent descriptions and parameters for sets of content.

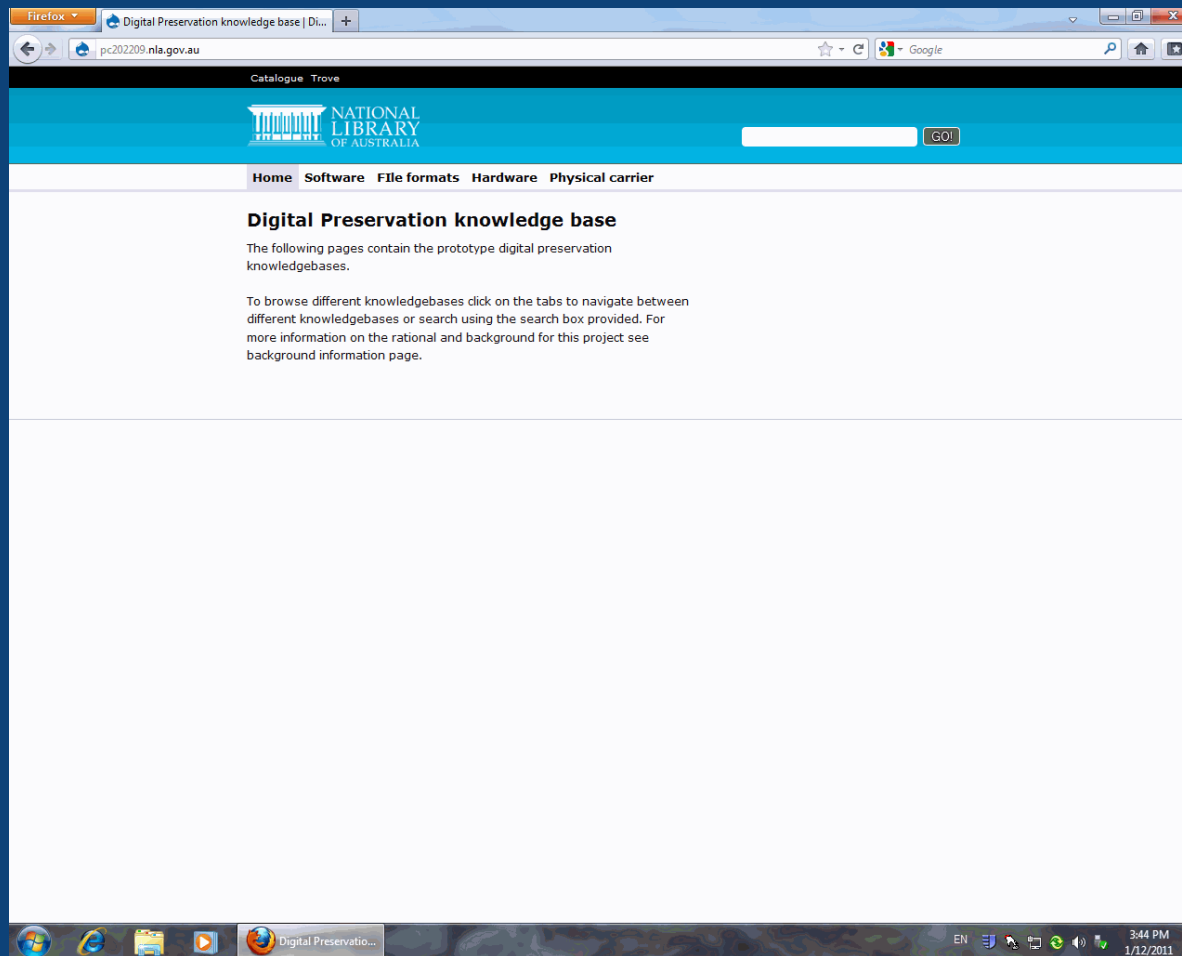


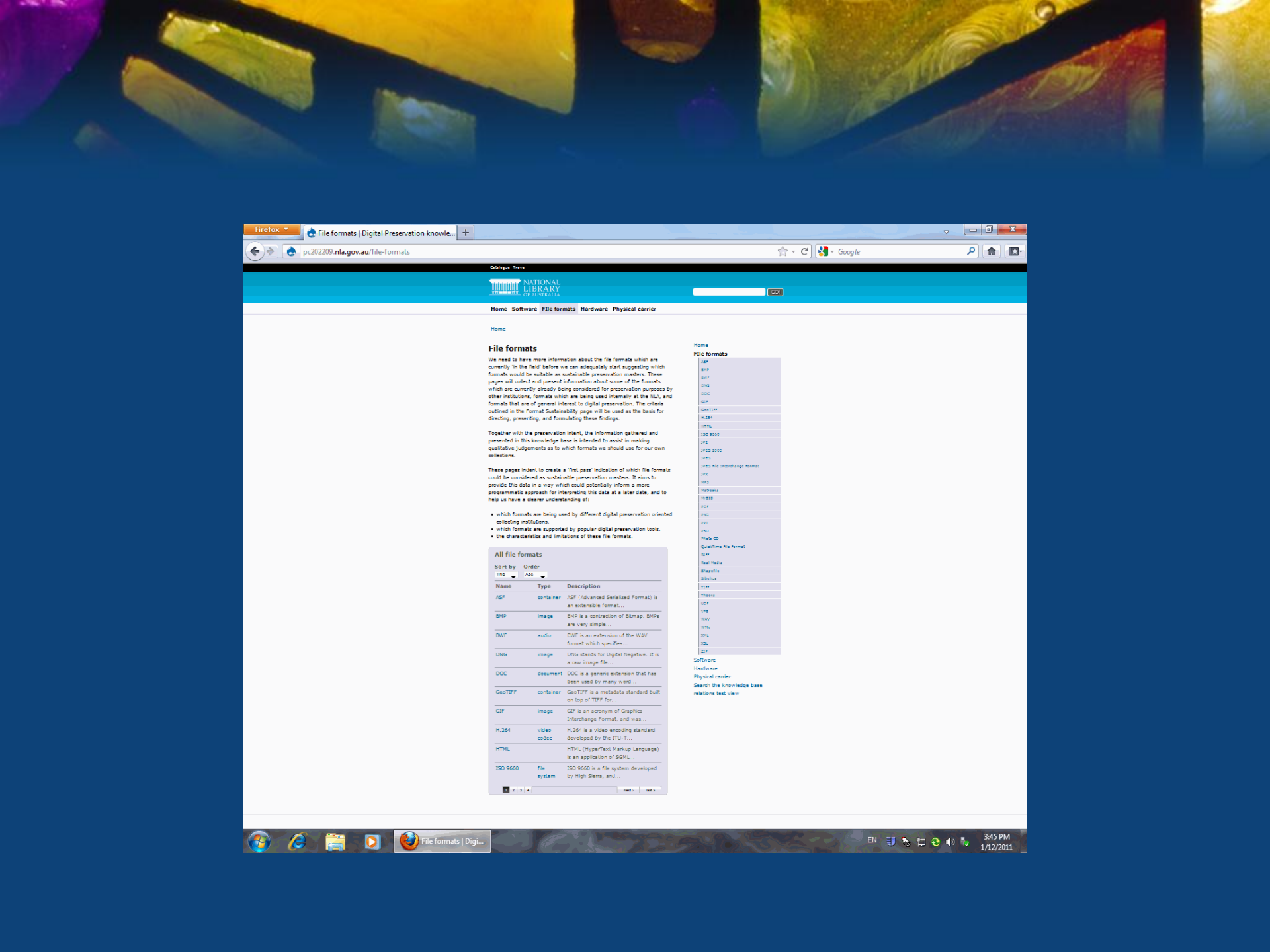
Other systems are also required to interrelate in this ecosystem such as:

- Preservation monitoring, reporting and prioritisation
- Preservation options and preservation action planning
- Preservation action evaluation









Firefox | BMP | Digital Preservation knowledge ba... | pc202209.nla.gov.au/file-format/bmp

BMP

General Information:
BMP is a contraction of Bitmap. BMPs are very simple containers for image based information. Even though they are practically ubiquitous, it can be difficult to pin point particular versions and release dates. Tentatively one can say the format was first released by Microsoft probably around 1986. Subsequent versions seem to have followed the release of new Windows operating systems.

Format type:
image

Vendor:
Microsoft

Extension:
.bmp

Technical capacity:
BMP is a raster image format that can support a variety of bit-depths, but only in the RGB colour space. It holds enough metadata to describe the version of the format being used, and the dimensions and bit-depth of the image, but no more than this. BMP is an uncompressed format.

Conditions of use:
The specification for BMP is widely available and appears free of restrictions.

Adoption:
Support for BMP is fairly ubiquitous. This probably has a lot to do with the specification being widely and easily available, and totally unrestricted in usage. It also probably has a lot to do with this being the de-facto choice of image format for many early Windows installations. However, usage of BMP is currently very limited, especially in preference of GIF or PNG.

Simplicity:
BMP is a very simple format. Given that it does not contain any superfluous metadata, and does not have support for compression schemes, it should be considered even more simple than other bitmap style raster images, such as TIFF, or PNG.

Stability:
BMP is a highly stable format, from the perspective that it has not seen any significant changes in some time, and is unlikely to undergo any drastic changes in the foreseeable future.

Specification:
<http://www.fileformat.info/format/bmp/spec/>
<http://www.fileformat.info/format/bmp/spec/27073c2463436f8a6fa789d8668e/view.htm>

Additional information:
[Wayback article on BMP](#)
[PrePressure entry on BMP](#)
[File Format Info entry on BMP](#)

File format versions for the BMP family

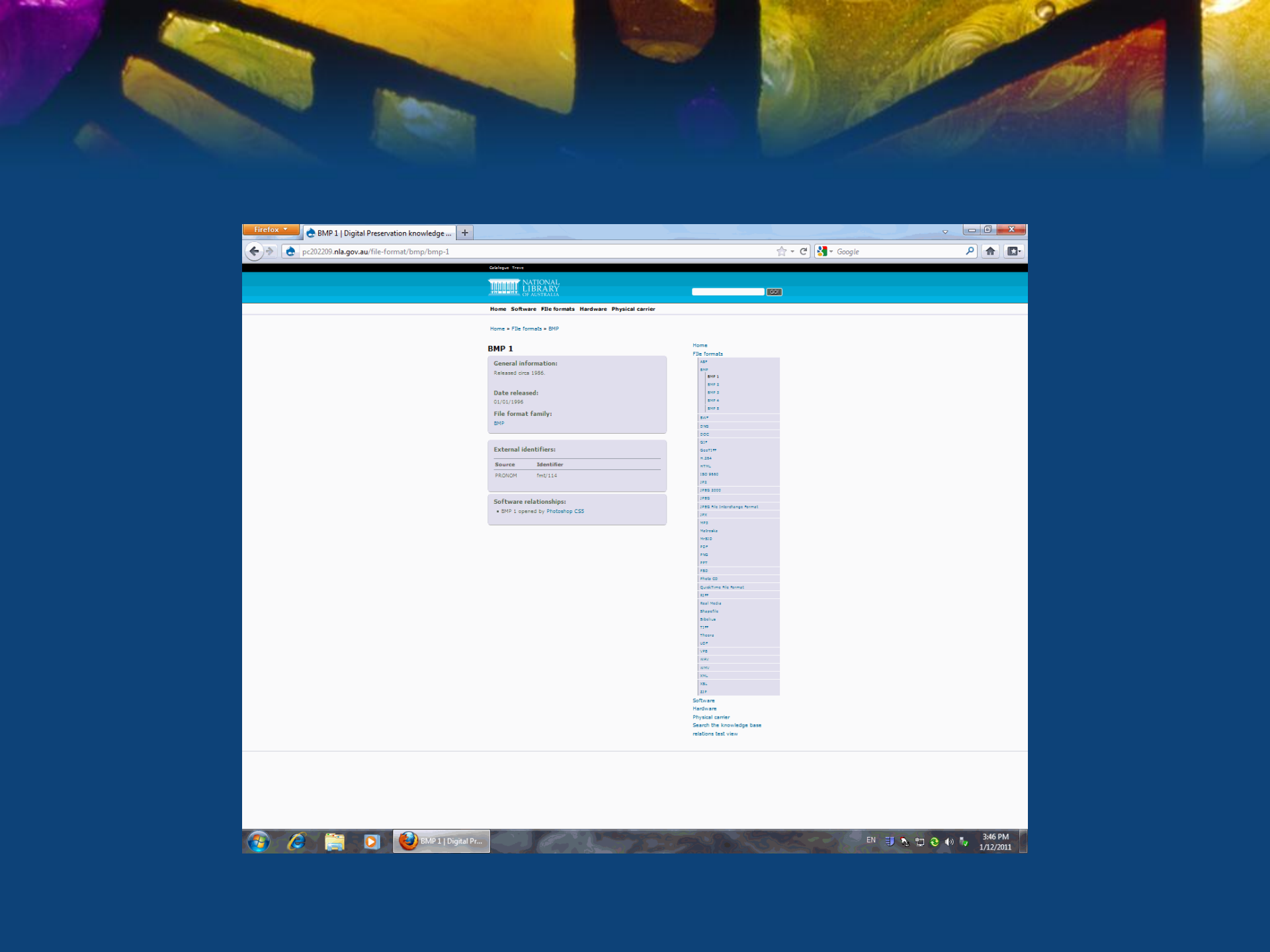
Version	Description
BMP 1	Released circa 1986.
BMP 2	Released circa 1986.
BMP 3	Released circa 1990.
BMP 4	Released circa 1993.
BMP 5	Released as contemporary with Windows 98, Windows ME.

File formats

- ADP
- BMP
 - BMP 1
 - BMP 2
 - BMP 3
 - BMP 4
 - BMP 5
- BMP*
- DWG
- DOC
- DOT
- Quattro
- 1234
- HTML
- ISO 8850
- JPG
- JPEG 2000
- JPEG*
- JPEG Xls Interchange Format
- JPG*
- KPS
- Matrox
- MSD
- PCT
- PIC
- PPT
- PBD
- Photo 3D
- QuickTime Xls Format
- SLM
- Real Media
- Shashto
- Shelvis
- TLM
- Theora
- UDP
- VPS
- WAV
- WMV
- XML
- YML
- ZIP

Software
Hardware
Physical carrier
[Search the knowledge base](#)
[relations test view](#)

EN | 3:46 PM 1/12/2011




Firefox

Software | Digital Preservation knowledg...

pc202209.nla.gov.au/software

Google



1220

[Home](#) [Software](#) [File formats](#) [Hardware](#) [Physical carrier](#)

Home

Software

Digital content is dependent on software in order to be meaningfully interpreted. These applications vary greatly in functionality and complexity. This page contains information about software that can be used to meaningfully access various file formats, as well as the operating systems that the applications are known to work on. At the NLA we will use this information to assess relative view-paths to maintain access to our digital content. For the sake of brevity and simplicity, more detailed information such as detailed dependency listings are not included. If more detail information is required at a later date, it will be added as required.

Where possible, information about how to obtain the software, or if there is a copy in the Digital Preservation software library, has been included.

All Software

Name	Software type	Description
Excel 2007	Application	Excel is a spreadsheet application developed by Microsoft...
Flash Player 10 Plugin	Application	Flash Player is a cross platform browser plugin that...
Photoshop CS5	Application	Photoshop is a very popular image manipulation and creation...
Reader 9	Application	Reader is a viewing program that is designed for accessing...
Real Player 14	Application	Real Player is a media player application developed by Real...
Sibelius 5	Application	Sibelius is a musical notation editing program developed by...
test software .dem	Application	some general info
VLC	Application	VLC is an open source media player developed by VideoLAN...
Windows 7	Operating system	Windows 7 is an operating system that was released by...
Windows XP	Operating system	Windows XP is an operating system produced by Microsoft...
Word 2007	Application	Word is a word processing program developed by Microsoft...

Home

File formats

Software


Adobe Reader 9
Excel 2007
Real Player 10
Photoshop CS5
Real Player 14
Sibelius 5
VLC
Windows 7
Windows XP
Word 2007


Hardware

Physical carrier

Search the knowledge base

relations test view



EN 

1:32 PM
7/12/2011

Firefox | Photoshop CSS | Digital Preservation kn... | +

pc202209.nla.gov.au/software/photoshop-cs5

Home Software File formats Hardware Physical carrier

Home » Software

Photoshop CS5

General information:
Photoshop is a very popular image manipulation and creation program developed by Adobe. The program itself is very complex, and provides support for a very broad range of functionality and uses. For example, it can be used as a tool to retouch photos, or to create a new image entirely from scratch. It has a very broad user base, particularly for those who work in the graphics or photographic industries. The default working format for Photoshop, PSD, is practically an industry standard, and can be opened in a variety of programs.

Software type:
[Application](#)

Current version:
CS5

Highest level of internal support:
SOE

Requirements:
Microsoft® Windows® XP with Service Pack 3; Windows Vista® Home Premium, Business, Ultimate, or Enterprise with Service Pack 1 (Service Pack 2 recommended); or Windows 7™ Intel® Pentium® 4 or AMD Athlon® 64 processor 1GB of RAM 1GB of available hard-disk space for installation; additional free space required during installation (cannot install on removable flash-based storage devices) DVD-ROM drive 1024x768 display (1280x800 recommended) with qualified hardware-accelerated OpenGL graphics card, 16-bit color, and 256MB of VRAM
Mac OS X v10.5.7 or v10.6 Multicore Intel processor 1GB of RAM 2GB of available hard-disk space for installation; additional free space required during installation (cannot install on a volume that uses a case-sensitive file system or on removable flash-based storage devices) DVD-ROM drive 1024x768 display (1280x800 recommended) with qualified hardware-accelerated OpenGL graphics card, 16-bit color, and 256MB of VRAM

Vendor availability:

Name	Vendor support
Photoshop CS5	Current supported
Adobe Creative Suite 5 Design Standard	Current supported

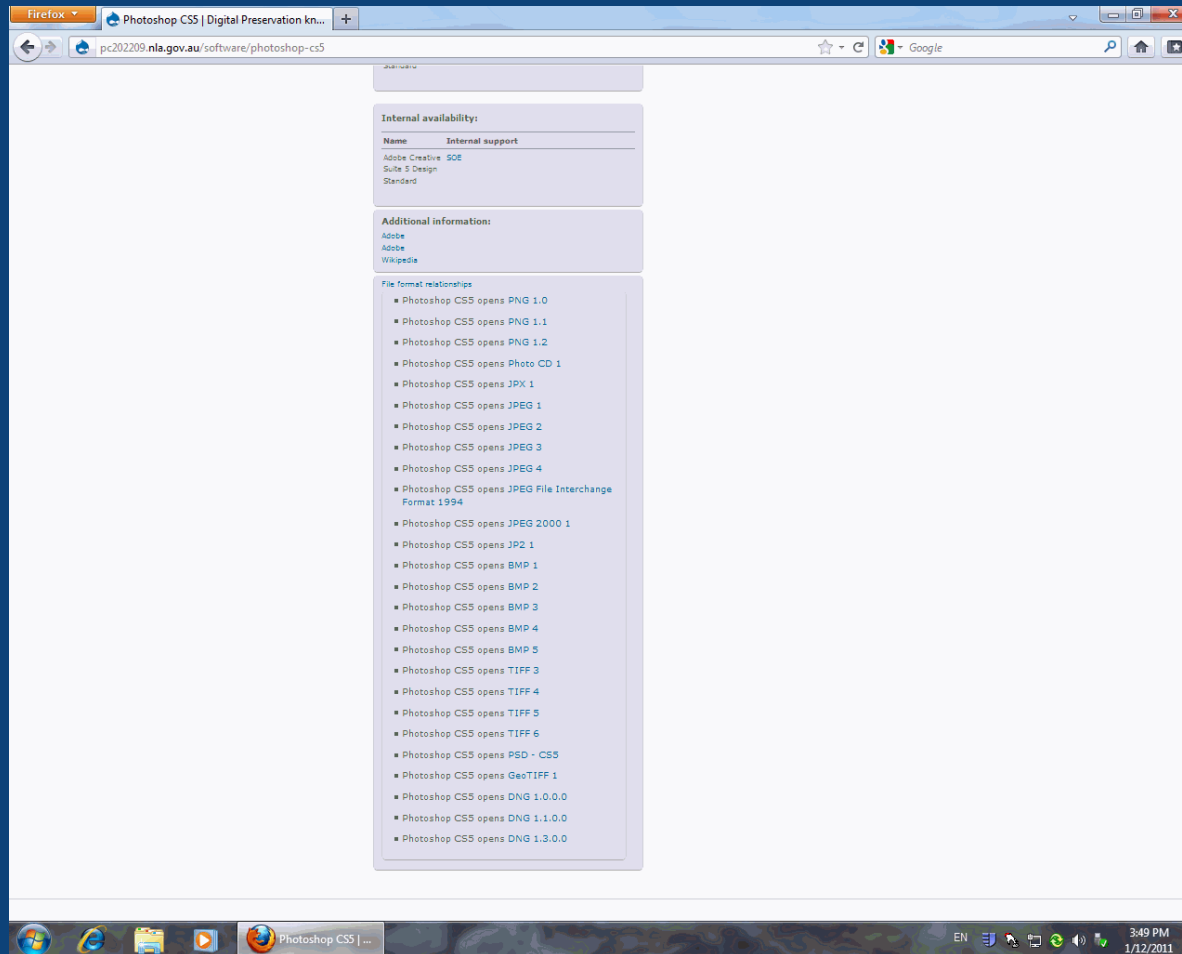
Internal availability:

Name	Internal support
Adobe Creative Suite 5 Design Standard	SOE

Additional information:
[Adobe](#)
[Wikipedia](#)

Home
File formats
Software
Adobe Reader 9
Invent 2007
Intel Power 10
Photoshop CS5
Hardware
Physical carrier
Search the knowledge base
relations test view

EN | 3:48 PM 1/12/2011




Firefox

Hardware | Digital Preservation knowled...

pc202209.nla.gov.au/Hardware

Google

Catalogue - Trove



GO!

[Home](#) [Software](#) [File formats](#) [Hardware](#) [Physical carrier](#)

[Home](#)

Hardware

The various hardware configurations that are considered to be relevant to accessing elements of the collection should be known and their dependencies understood.


All file formats

Sort by Order

Title Asc


Name	Description
Zip Drive	Zip Drives support Zip Disks, which are relatively low...

[Home](#)
[File formats](#)
[Software](#)
[Hardware](#)
[Zip Drive](#)
[Physical carrier](#)
Search the knowledge base
relations test view



Firefox Zip Drive | Digital Preservation knowledg...
pc202209.nla.gov.au/hardware/zip-drive

Catalogue: Trove

 NATIONAL LIBRARY OF AUSTRALIA

Home Software File formats Hardware Physical carrier

Home » Hardware

Zip Drive

General information:

Zip Drives support Zip Disks, which are relatively low capacity (less than 1GB) storage devices that were introduced into the market by Iomega in the mid '90s. Although they gained some popularity, they were soon superseded by the advent of lower cost storage mediums, such as CD-R, and later by removable USB flash memory. The market for Zip drives is now very low. Zip Drives come in both internal and external form factors, using a variety of connectors (USB, SCSI, Parallel, etc). External models use an external power pack.

Additional information:

[Wikipedia Zip Drive page](#)
[Iomega web site](#)

File format versions for the Zip Drive family

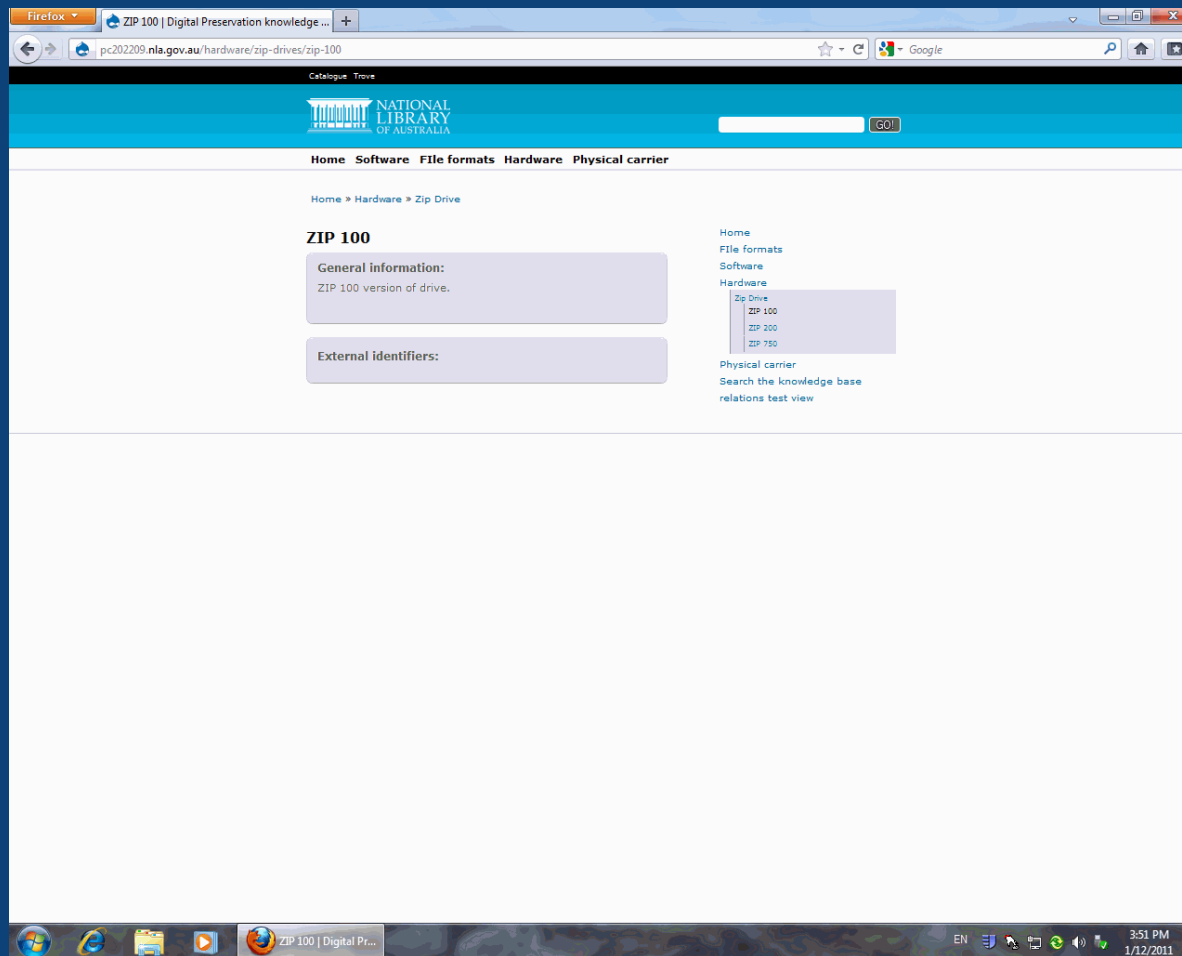
Version	Description
ZIP 100	ZIP 100 version of drive.
ZIP 200	ZIP 200 version of drive.
ZIP 750	ZIP 750 version of drive

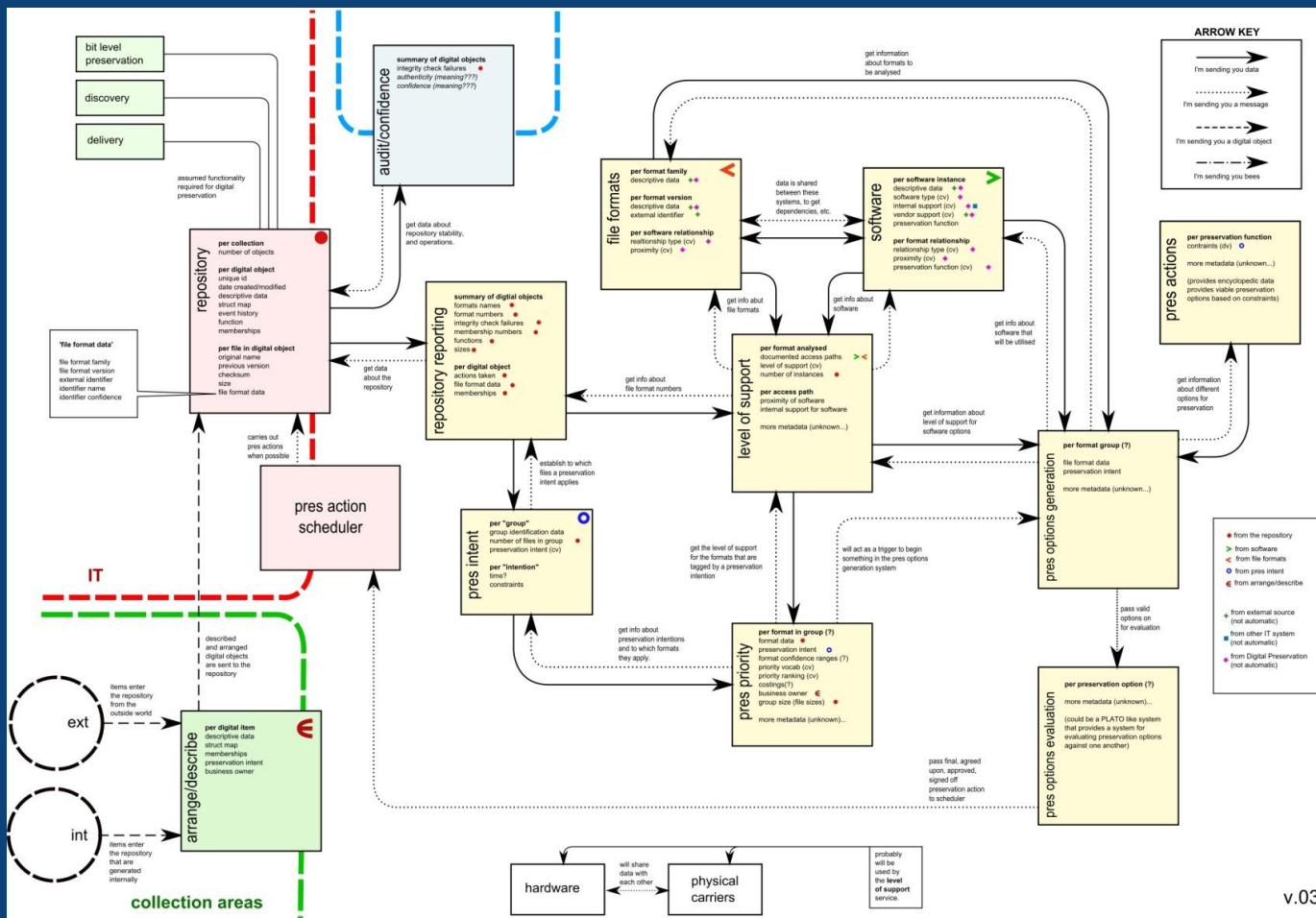
Home
File formats
Software
Hardware

Zip Drive
ZIP 100
ZIP 200
ZIP 750

Physical carrier
[Search the knowledge base](#)
[relations test view](#)

EN 3:50 PM 1/12/2011







amazingmutantrace4.blogspot.com

So what?



Thank you

*Everything, for Everyone
Forever*