KeepIt

Kultur, eCrystals, EdShare (and NECTAR) – Preserve It!

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Project Overview

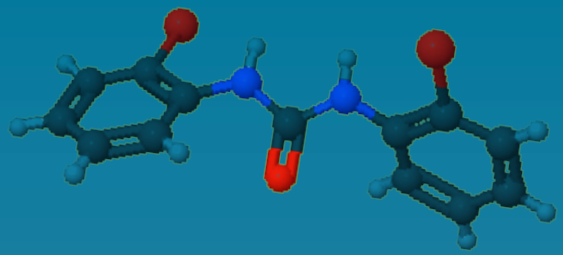
- Aim: To create a number of exemplar preservation repositories from which others can learn
- Small number of very diverse repositories

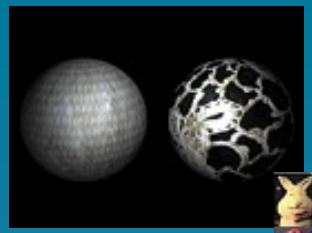
Training

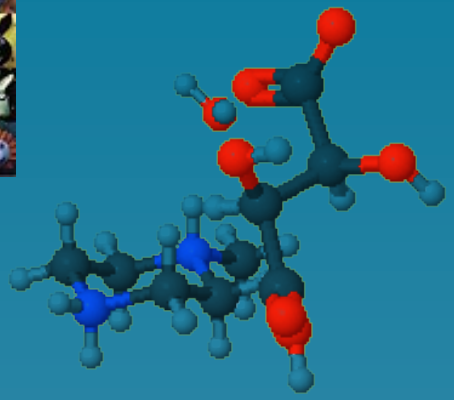
Development

Deployment

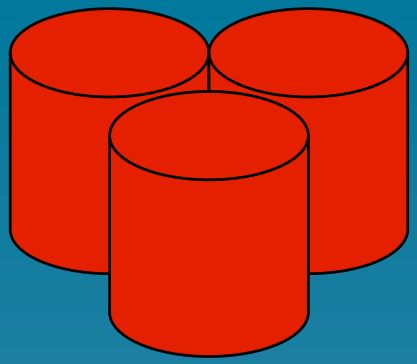
Repository Content







Preservation



Long Term
Reliable Storage

Risk Analysis

Mitigation / Action

Long Term Reliable Storage

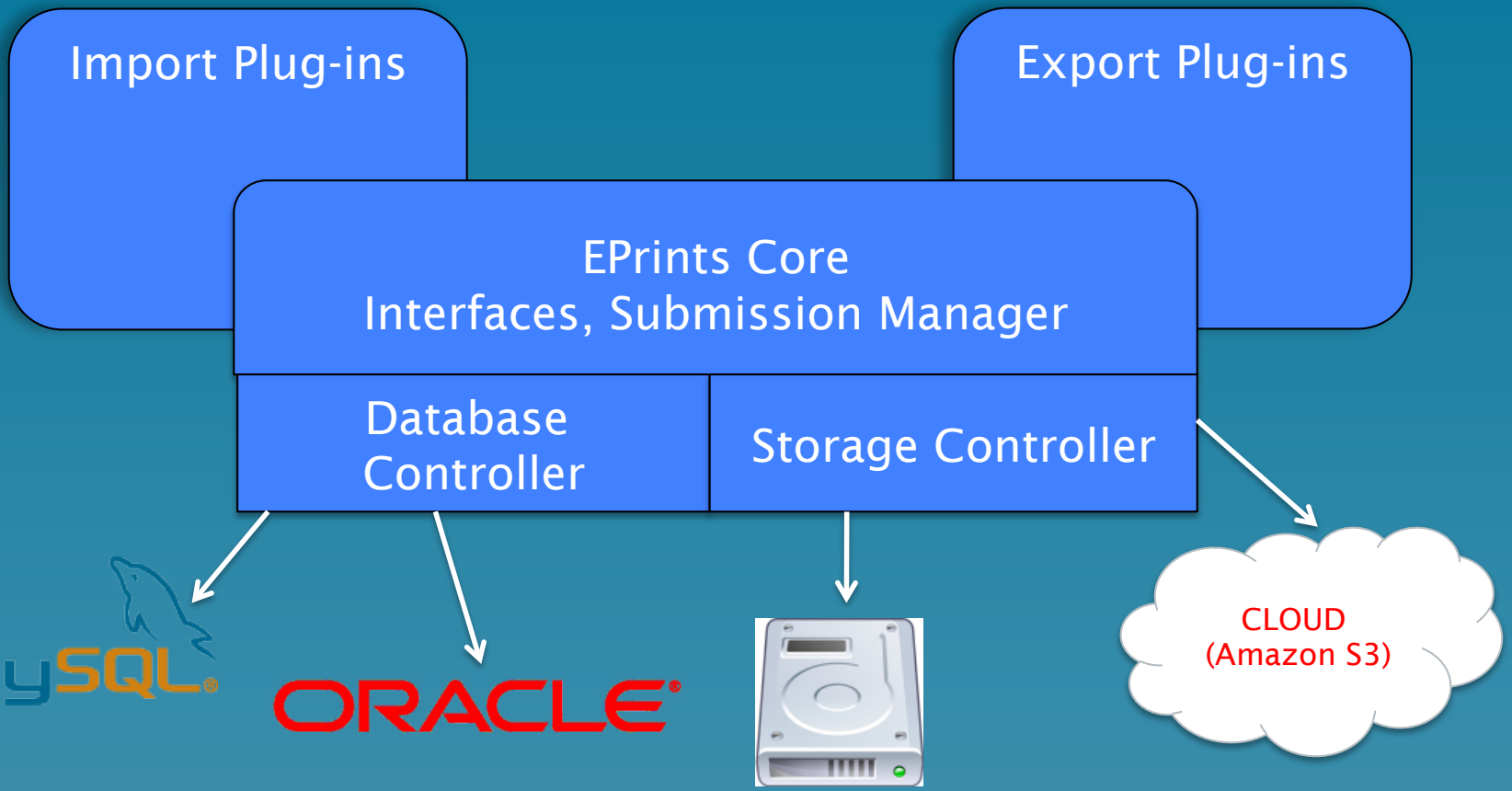
- Content specific storage
- Hybrid storage solutions
- Preservation aware storage

- Object orientated storage
- Smart storage
- Simple storage based preservation services

- (Hybrid) EPrints Storage Controller
- EC2 based preservation services (act on S3)
- Storage status reports

Long Term Reliable Storage

EPrints is expanding the number places
in which plug-ins can be utilised.



Risk Analysis

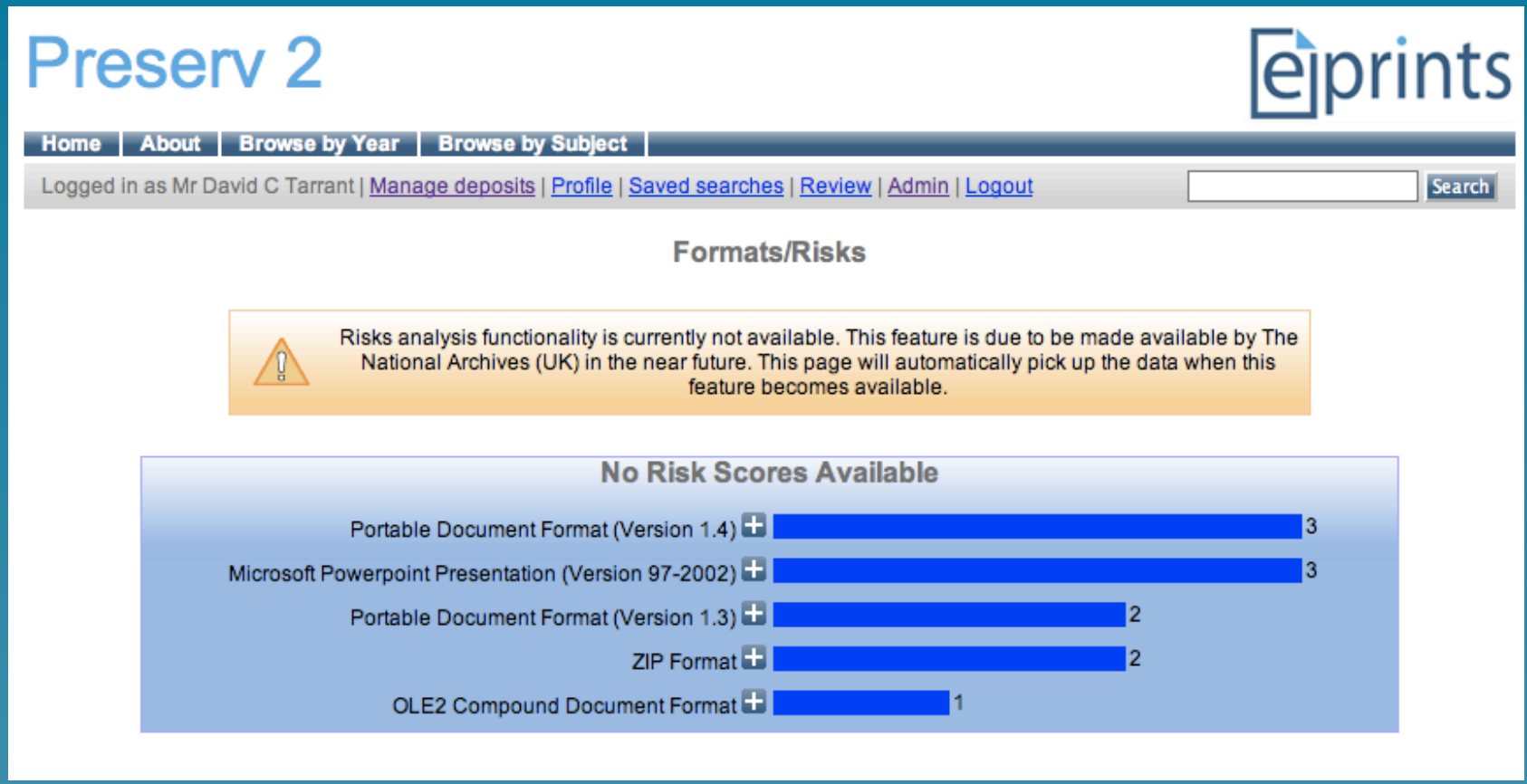
- File Formats
- Significant Properties
- Resolution policy

- Risk analysis policies
- Preservation registry (p2-registry)

- File format plug-in toolset EPrints
- Risk analysis for files in repository
- An open preservation registry

Risk Analysis

File format plug-in toolset EPrints



Risk Analysis

Preservation registry (p2-registry)

Risk Analysis - Portable Document Format (v1.3) (Default Profile)

Portable Document Format (v1.3)

- Format Age : Your format is 10 years old and there are 3 newer formats, the latest of which is PDF (1.6) (Released: 01 Jan 2004).
- ~~Software Tools (Open) : 3 tools can Open your format.~~
- ~~Software Tools (Save) : 1 tools can Save your format.~~
- Format Documentation? : Documentation exists for this format
- Documentation Quality : Documentation is complete and of a high standard
- Rights : Format is proprietary

Portable Document Format

- ~~Format Age : Your format is 16 years old but is the latest known version of this format.~~
- Ubiquity : Format is most widely adopted of type
- Stability : Format is not backwards compatible, but versions change infrequently
- Identification Type : Format can be positively identified (specific)
- Format Type : It is not possible to obtain the original document in the original context using this format
- Complexity : Medium complexity format
- Software Tools (Open) : 14 tools can Open your format.
- Software Tools (Save) : 39 tools can Save your format.

Risk Score: 3.73

Total = 41 / 11 properties

How is this calculated?

The data you see here has all come from the Preserv2 registry and more specifically the risk analysis service. Available here in RDF the risk analysis services selects specific information from the registry according to a profile (in this case the default one) and outputs in in RDF. This page displays a summary of this data which has also been process to find a score relating to this data.

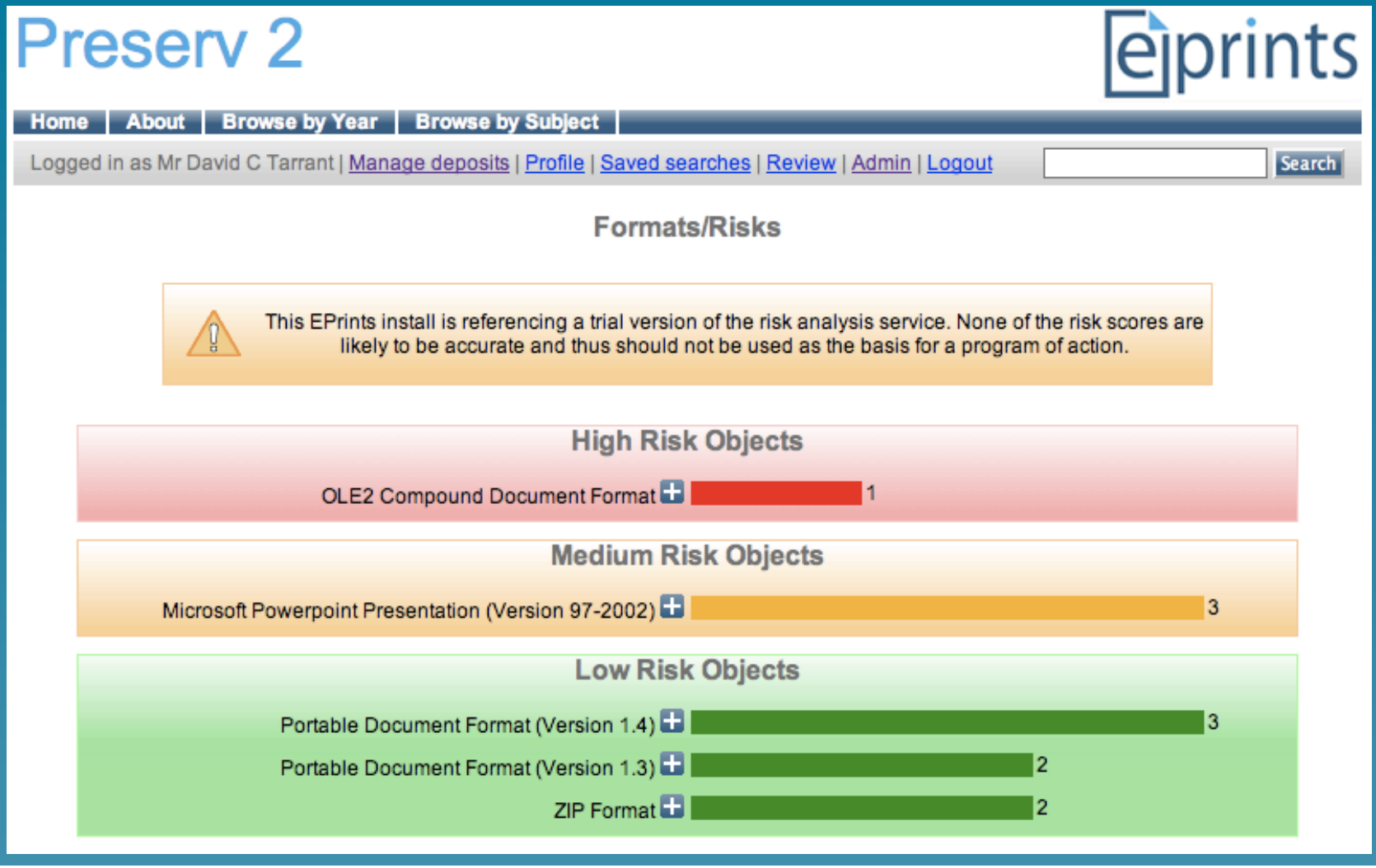
Each piece of select data is either about the format itself or it's related supertype format, e.g. PDF 1.6 is a type of PDF. From this point data is handled in 4 ways with all final risk levels being either low (green), medium (orange) or high (red). To calculate the final risk score low risks are worth 1 point, medium - 5 points and high - 10 points. The total is then divided by the number of properties which counted towards this score to give the final risk score. Items with ~~lines~~ through them are not counted due to better or more accurate overiding information being available in a different category.

The risk boundaries are:

- <3.51 = Low Risk
- >3.50 and <7.00 = Medium Risk
- >=7.00 = High Risk

Risk Analysis

Risk analysis for files in repository



Mitigation / Action

- Choosing storage platforms
- Migration vs Emulation
- The importance of policy

- Migration pathways
- Integration of simple migration services
- Using smart storage and cloud based services

- Risk Analysis -> Migration Integration

Mitigation / Action

Risk Analysis -> Migration Integration

High Risk Objects

OLE2 Compound Document Format 1

Medium Risk Objects

Microsoft Powerpoint Presentation (Version 97-2002) 3

hitchcock-ipres5-0908-11.ppt (2640Kb)
Title: Towards smart storage for repository preservation services
EPrint ID: 4 **User:** Mr David C Tarrant

dorsdl2.ppt (11Mb)
Title: Applying Open Storage to Institutional Repositories
EPrint ID: 1 **User:** Mr David C Tarrant

Passig2008_Eprints(97-04).ppt (10Mb)
Title: From open storage to smart storage: enabling EPrints repository preservation
EPrint ID: 2 **User:** Mr Test T User

User	No of Files
Mr David C Tarrant	2
Mr Test T User	1

Migration Tools

Tool	Preservation Level
PPT -> PPTX	
PPT -> PDF	

Low Risk Objects

Portable Document Format (Version 1.4) 3
Portable Document Format (Version 1.3) 2