

Digital Preservation Systems Survey:

Two (or three) years later

SUN PASIG

24 September 2009

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Gelman Library

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THE GEORGE
WASHINGTON
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Time & Bits (Getty) (1998)



DPS survey (DLF, April 2007)

- First survey of its kind
- DPS definition: compliance with OAIS and TRAC
- 316 responses (slide 11)
- In production (slide 16)

Systems

- Slide 30
- Consolidation : dspace + Fedora (not true DPS)
- New player Rosetta (Ex-Libris)
- IBM DIAS dying!
- DAITSS re-write

New [OLD] Players ERA subcontractors



- Tessella
 - Swiss Federal Archives chooses Tessella's Safety Deposit Box (Aug 2009)

New [OLD] Players ERA subcontractors



□ FileTek

- StoreHouse (+Tessella) for NAUK

New Hybrid: SPAR

- ❑ SPAR: BnF's digital preservation repository
- ❑ Contractor ATOS Origin
- ❑ Slide 21 (Ledoux SUN PASIG Malta 09)
- ❑ Proliferation of open source tools: Fedora, iRODS, JHOVE, etc.
- ❑ SUN Hardware (StorageTek)

IBM resurrected (2006!)

- ❑ Preservation DataStores -- a project of IBM Haifa (Israel)
- ❑ Infrastructure component of CASPAR, a European Union project.

RODA (2006!)

- ❑ RODA: Portugal's new open source digital preservation repository
- ❑ Fedora-based
- ❑ Andrew Woods (Aug 2009), DuraSpace technical lead and developer: "RODA stands out as an elegant effort addressing technical compliance with OAIS/TRAC."

DPS @ National Library of China

- <http://tinyurl.com/chinaDPS>
- **Slide 12**

FDSYS GPO is live



- ❑ Harris Corporation was awarded the contract on Aug 2006 (\$29 million)
- ❑ Runner on the ERA (NARA) vs Lockheed Martin
- ❑ ERA was awarded to Lockheed Martin in 2005 for (\$308 million) final deliverable 2012

British Library: Microsoft DOM

- Goal 2016

Not DPS per se

- DuraCloud Mellon: Q2 2010
- HathiTrust
- Etc.

SUN

- ▣ SUN is the hardware behind : Rosetta, Filetek, SPAR (BNF), etc.

Micro-Services Approach to Digital Preservation

- "Give us the tools, and we will finish the job":
The California Digital Library (CDL) is deploying a new micro-services approach to digital preservation in which the range of functions traditionally encapsulated into a single repository system is devolved into a set of independent but interoperable services. Since each of the micro-services is small and self-contained, they are easier to develop, maintain, enhance, and, when appropriate, discard and replace. The initial set of micro- (NDIIP 2009)

Preservation Planning a la OAIS

- Definition: The OAIS entity that "provides the services and functions for monitoring the environment of the OAIS and providing recommendations to ensure that the information stored in the OAIS remains accessible to the Designated User Community over the long term, even if the original computing environment becomes obsolete. Preservation Planning functions include evaluating the contents of the archive and periodically recommending archival information updates to migrate current archive holdings, developing recommendations for archive standards and policies, and monitoring changes in the technology environment and in the Designated Community's service requirements and Knowledge Base. Preservation Planning also designs IP templates and provides design assistance and review to specialize these templates into SIPs and AIPs for specific submissions. Preservation Planning also develops detailed Migration plans, software prototypes and test plans to enable implementation of Administration migration goals."
- **WHO HAS IT? None!!**
- **Many are working on it like Rosetta.**

Beyond the systems

- ❑ NSF DataNet: The Data Conservancy (DC); research, design, implement, deploy and sustain data curation infrastructure (JHU)
- ❑ NSF-Mellon: Blue Ribbon Task Force on Sustainable Digital Preservation and Access (Jan 2010)

MILLENNIATA (Ironic!)

- Write Once, Read Forever
- <http://www.millenniata.com>