

Digital Repositories

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Digital Preservation Service Levels

Bit preservation

At the Bit preservation service level, the repository ensures that an object can be *delivered* in the exact form in which it was originally deposited; in other words, the original bits in their original formats.

Content preservation

At the Content preservation service level, the repository ensures that an object can be delivered in a non-obsolete format that is *renderable* by an appropriate external application. Note, however, that at this service level, the user community rather than the repository may be obligated to identify, provide, or maintain such applications.

Functional preservation

At the Functional preservation service level, the repository ensures that an object can be *rendered* by either an institutionally-supported or commonly-deployed rendering application. Commonly-deployed rendering applications are construed to be those available in widely-used pre-configured open-source or commercial web browsers.

Readings

Arts and Humanities Data Services (AHDS) Depositing Resources, <http://ahds.ac.uk/depositing/>. See, in particular, their categorization of *preferred*, *acceptable*, and *problematic* formats, <http://ahds.ac.uk/depositing/deposit-formats.htm>.

LeFurgy, William. "Levels of Service for Digital Repositories," *D-Lib Magazine*, May 2002, <http://www.dlib.org/dlib/may02/lefurgy/05lefurgy.html>.

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Repositories – study documentation to become acquainted with evolving service (and business) models, as well as use of technology, to provide robust, centralized digital archiving services; institutions listed below likely candidates for certification as trustworthy repositories

- AHDS Repository, <http://ahds.ac.uk/depositing/>
- Florida Center for Library Automation (FCLA), <http://www.fcla.edu/digitalArchive/daInfo.htm>
- Harvard University Library Digital Repository Service, <http://hul.harvard.edu/ois/systems/drs/>
- Library of Congress (digital formats), <http://www.digitalpreservation.gov/formats/>
- OCLC Digital Archive, <http://www.oclc.org/digitalarchive/about/default.htm>
- Portico, <http://www.portico.org/about/approach.html>

Communities – selected forums in which to frame problems, set agendas for research and for standards development, define parameters of service, vet practices, and develop tools

- Digital Library Federation forums, <http://www.diglib.org/forums.htm>
- Society for Information Science & Technology Archiving Conference, <http://www.imaging.org/conferences/archiving2006/>
- European community
 - Digital Preservation Coalition forums and meetings, <http://www.dpconline.org/graphics/events/>
 - UKOLN conferences and workshops (example: <http://www.ukoln.ac.uk/events/delos-rep-workshop/intro.html>)
 - International Conference on Preservation of Digital Objects (iPRES), <http://www.langzeitarchivierung.de/ipres/>

Readings

Chapman, Stephen. “Counting the Costs of Digital Preservation: Is Repository Storage Affordable,” *JoDI*, Vol. 4, Issue 2, 2003, <http://jodi.ecs.soton.ac.uk/Articles/v04/i02/Chapman/>.

Lavoie, Brian and Lorcan Dempsey. “Thirteen Ways of Looking at...Digital Preservation,” *D-Lib Magazine*, July/August 2004, <http://www.dlib.org/dlib/july04/lavoie/07lavoie.html>.

RLG, “Digital Repository Certification” site, http://www.rlg.org/en/page.php?Page_ID=580.

Portals

- **DLF**, <http://www.diglib.org/preserve.htm>
- **DPC**, <http://www.dpconline.org/>
- **NDIPP**, <http://digitalpreservation.gov/>
- **PADI**, <http://www.nla.gov.au/padi/>