Digital Preservation at Columbia in the Old Days (2009)

By Eileen Clegg
Digital Preservation at Columbia Now

Columbia University Libraries / Information Systems
Digital Asset / Preservation Architecture

Digitization Projects ➔ Inst. Repository / Data Sets ➔ Archived Web Sites ➔ Born-Digital Archives ➔ Ingest Services ➔ Fedora Repository

Generation / remediation of:
- descriptive metadata
- technical metadata
- rights metadata
- structural metadata

Fedora Repository ➔ Preservation Repository Services

4-Node EMC Isilon Cluster (on campus) 384 TB ➔ EMC Isilon Cluster (Syracuse, NY) 384 TB ➔ Off-site Tape System (Indiana U.)

Auditing
Access management
Integrity checking
Content stabilization / transformation
Format migration

3/26/2014
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Consortial Solution?

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*Future* Digital Asset / Preservation Architecture

- Digitization Projects
- Inst. Repository / Data Sets
- Archived Web Sites
- Born Digital Archives

Ingest Services

Columbia Local Preservation Storage

Columbia Fedora Repository

APTrust

DPN: The Digital Preservation Network
“Trusted Digital Repositories”

- **Audit and Certification of Trustworth Digital Repositories**: CCSDS 652.0-M-1 (2011) “Magenta”

[CCSDS => Consultative Committee for Space Data Systems]
TRAC Compliance #1

**OAIS compliance**

Conformity with the OAIS Standard
TRAC Compliance #2

**Administrative responsibility**

A commitment to track and comply with current and emerging standards embraced by the preservation community.
TRAC Compliance #3

Organizational viability

Capacity to receive, store, preserve, and provide access to digital materials under its care, encompassing legal, fiscal, and ethical considerations and requirements.
TRAC Compliance #4

Financial Sustainability

Accounting and budget policies and procedures that are part of a business plan to define and protect requisite resources for the digital preservation program.
TRAC Compliance #5

*Technological Suitability*

Capacity to develop and maintain requisite hardware, software, expertise, and techniques to support and enable the digital preservation program, including adherence to relevant standards and industry best practice.
TRAC Compliance #6

*System Security*

A commitment to maintaining a constant and appropriate level of environmental and online protection; surveillance; and risk detection, response, and mitigation to safeguard the integrity of digital assets.
TRAC Compliance #7

**Procedural Accountability**

A means for documenting, sharing, and applying the set of policy statements and associated procedures and prevailing practice.
TRAC Compliance #8

Succession Plan / Exit Strategy

An appropriate, formal succession plan, contingency plans, and/or escrow arrangements in place in case the repository ceases to operate or the governing or funding institution substantially changes its scope.