ISO 16363

Trustworthy Digital Repository Certification in Practice

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Open Repositories 2012

PURR and ISO 16363 Preparation

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PURDUE UNIVERSITY

Purdue University Research Repository | PURR

What is PURR?

The Purdue University Research Repository (PURR) provides an online, collaborative working space and data-sharing platform to support the data management needs of Purdue researchers and their collaborators.

Learn More

● ●

In the News: The National Science Foundation now requires all proposals to submit a Data Management Plan   Read More ›

Start Your Research Project

Read the DMP Requirements
Read the detailed requirements for your data management plan. The requirements are very specific and should help to clear up any confusion regarding your own data management plan. Get Started ›

Create a Group for Your Project
Groups are an easy way to share content and conversation, either privately or with the world. Create your new project group as a collaborative environment for sharing information and as a portal for your project team. Get Started ›

Upload Research Data to Your Project
Become a contributor and share your work with your team and the community! Contributing content is easy. Our step-by-step forms will guide you through the process. Get Started ›

Do you have a question?

Ask a Librarian

Your Question/Message

You will be prompted and required to enter an email address before your chat session begins.

Send

Chat Available

What is 'Trustworthiness'?

from *Trusted Digital Repositories: Attributes and Responsibilities* (*TDR*):

A trustworthy repository must implement "a mission to provide reliable, long-term access to managed digital resources to its designated community, now and into the future".

3 Important Qualities of Trustworthiness:

- Integrity
- Sustainability
- Support

-- In audit preparation, strive to 'map' these 3 qualities across each section of criteria.

Using ISO 16363 as a Preparation Tool

3 Sections of Criteria:

    3) Organizational Infrastructure

    4) Digital Object Management

    5) Infrastructure and Security Risk Management

-- approx. 109 criteria in all

-- not a 1-to-1 correspondence between criteria
     and evidence, or vice versa

PURR Gap Analysis Tool

1- meets criterion

2- small gap, can be easily closed

3- significant gap, known & viable options

4- large gap, viable options are not yet known

Chronopolis and TRAC

David Minor
Chronopolis Program Manager
Director, Digital Preservation Initiatives
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Chronopolis

- Digital preservation network based on geographic replication
  - UCSD/SDSC, NCAR, UMIACS
- Originally funded via NDIIPP
  - Focused on technology development
  - Original clients were also part of NDIIPP
- Management and finances via UCSD
- All nodes independent entities

Why do TRAC?

- Validation of work
  - Last step in our NDIIPP processes

- Learn about holes

- Hear community comments

- Get more business

Process logistics

- Summer of 2010 - Winter of 2012
- Equivalent of 3 FTE during process
  - Management
  - Finances
  - Metadata work
  - Security, system administration, etc.
- Discussions with users/customers
- Hundreds of pages of documentation

Comments and issues raised by auditors

- Strong on technology
  - Spent time commenting on connections with participant data centers
- Less strong on business plan
  - Good data on costs and plans
  - Need better projections for future adoption
- Discussion of preservation actions
  - Bit preservation vs. migration, normalization, etc.
  - Comments from users

Next steps and future plans

- Implement recommendations
  - Better identify new users and communities
  - Improve working with other networks
- How do changes impact audit?
  - "Re-audit" in 18-24 months
  - What if we change technologies?
  - What if management changes?
- We ARE hearing from people based on TRAC

Thanks

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The Center for Research Libraries

Origins and mission
1949 to the present
Supporting academic research
Permanence
U.S., Canada, Hong Kong

The Center for Research Libraries

Governance: the research community

Stakeholders: the research community

CRL Certification Program

Goals:
Informing investment by the community
Supporting advanced research

CRL Certification Program

Activities:

Repository audits and evaluations
Information sharing
Best practices

CRL Certification Program

Experience:
Portico
Chronopolis
PURR
PTAB test audits

CRL Certification Program

The Future:
TRAC certification
ISO 16363
Focus on humanities and social science data

Thanks!

Bernard Reilly

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The *Center* *for* **Research Libraries**
GLOBAL RESOURCES NETWORK

Resources

• *Reference Model for an Open Archival Information System (OAIS)*, (CCSDS 2002)

• *Trusted Digital Repositories: Attributes and Responsibilities* (RLG & OCLC, 2002)

• *Trustworthy Repositories Audit & Certification: Criteria and Checklist* (OCLC & CRL, 2007)

• *Audit and Certification of Trustworthy Digital Repositories (Recommended Practice)*, (CCSDS, 2011)

• Center for Research Libraries, *Certification and Assessment* (website)

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