

# Technical Report

4th CERN Workshop of Innovations in Scholarly  
Communication (OAI4)

# What's new in OAI?

- OAI-PMH for resource harvesting
  - Harvest metadata formats designed for digital objects, e.g., METS, MPEG-21 DIDL
- mod\_oai
  - An Apache 2.0 module to automatically answer OAI-PMH requests for an http server

# What's new in OAI?

- OAI-rights
  - Encapsulating rights for harvested metadata, not the resource: authoritative at the record level
- OAI Best Practices
  - DLF initiative to establish best practices for shareable metadata
  - Comments on draft welcome!

# Identifiers

- Persistence is only as long as the lifecycle of the information object
- Different layers to identifiers
  - social, business, policy, application, functional, technology
- The only guarantee of the usefulness and persistence of identifier systems is the commitment of the organisations that assign, manage and resolve identifiers
- “info” URI scheme
  - separation of identifier and resolution

# Repository Interoperability

- Future will have many repositories
  - Repositories are the starting point of value chains
- aDORe repository architecture
  - Standards-based modular architecture
  - Interoperability through OAI-PMH and OpenURL interfaces
- Pathways InterDisseminator Service Overlay

# Access to structured data

- OCKHAM - using “lightweight” protocols
  - Such protocols are easy to use and do one thing well, e.g., OAI-PMH, SRW/U
- Glue them together to build services
  - OCKHAM Alert, Harvest2Query
- WikiD(ata)
  - Lightweight front-end to an OpenURL 1.0 resolver
  - Convenient management of structured data

# Measuring and facilitating use

- Analysis of network access and usage web logs to assess ranking and impact
- Standards-based exposure of logs as OpenURL ContextObjects using OAI-PMH
  - Exposed logs can be used for services, e.g., recommender systems
- Making institutional repositories citation-aware
  - OpenURL links provide connections from harvested record

# Trends?

- OAI-PMH 2.0 is stable (over 3 years now)
  - Looking more at what we do with harvested data - building services
  - Refining and extending harvesting capability
- Combining standards
  - Become greater than the sum of their parts
  - Open up access to information in a powerful way