infrae

The MOAI Server

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Agenda

- Introduction
- MOAI Server
- MOAI demonstration
- Silva OAI integration demo
- Questions

What is OAI?

- The Open Archives Initiative: http://www.openarchives.org/
- "A low-barrier interoperability framework for archives containing digital content"
- Extremely popular with librairies and research organizations that maintain institutional repositories

OAI-PMH

- Open Archives Initiative Protocol for Metadata Harvesting
- Allows people (Service Providers) to harvest metadata from Data Providers
- Assets are stored at the Provider
- The metadata is used to provide value-added services, often by combining different data sets

What is an OAI Server

- XML Feed
- Multiple Metadata Formats
- Selective Harvesting

Why MOAI

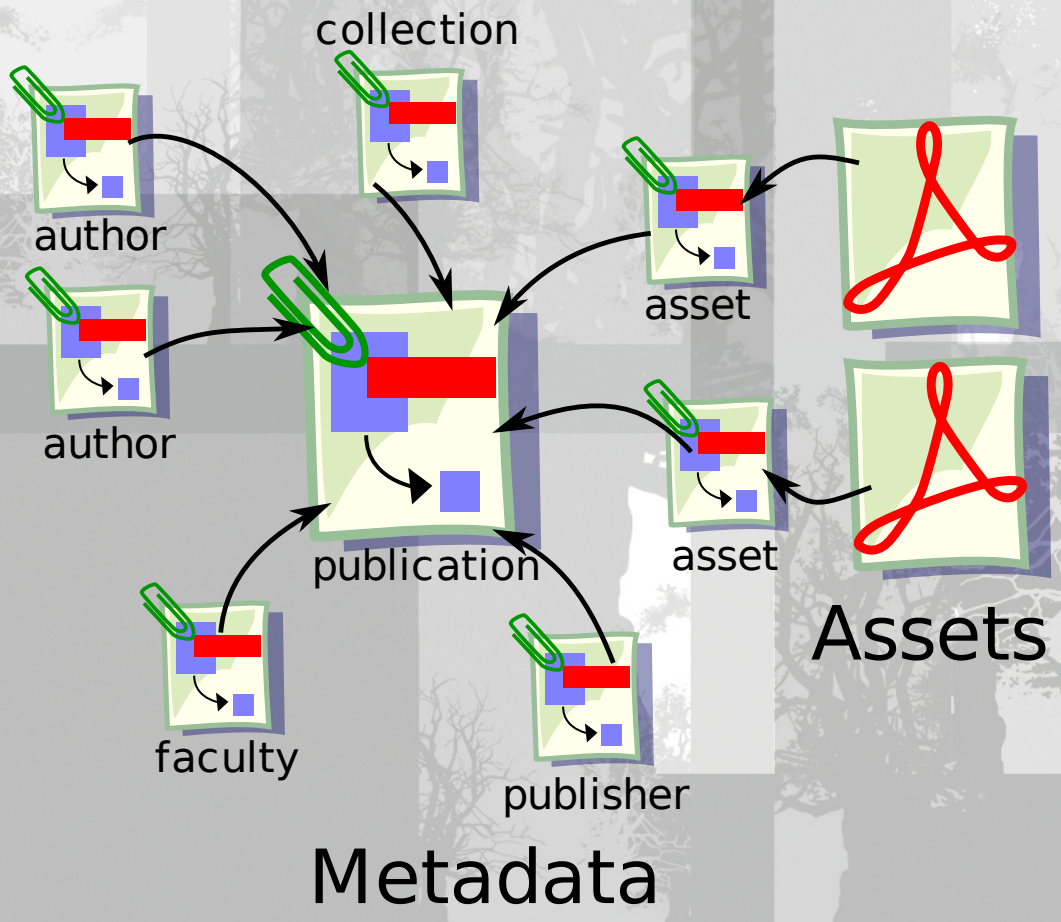
- Lot's of hard-earned wisdom
  - one server, many feeds
  - works well with relational data
  - dynamic sets
- Stand-alone system, can harvest
  - directory
  - SQL database
  - OAI feeds
  - Fedora repositories
- Re-use metadata prefixes

One server, many feeds

- Configuration per feed
- Filters based on sets
- Feed Authentication through Apache webserver
- Asset access controlled by feed
  .../oai?verb=ListRecords&...
  .../oai/handle/12345/some_asset.pdf

- Configurable asset download through Apache webserver

Current developments: OAI-ORE



Dynamic Sets

- What is an OAI Set
- Normal Sets (Collections)
- Dynamic Sets
  - type (Article, Thesis)
  - issue year (2007, 2008, 2009)
  - scope (public, internal, private)
  - faculty/school

Setting up MOAI

- Demonstration....

Integrating with Silva

- Demonstration....

Coming in Silva 2.2

- silva.app.oaiprovider
- Silva can also be an OAI Provider

Software preview

- See a demonstration of the Metro repository software (in use at Erasmus University Rotterdam and the University of Liverpool) on thursday at 14:00

Questions?

Thanks

http://moai.infrae.com/