The DiVA System: Current Status and Ongoing Development

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DiVA (Academic Archive Online)

- Project started 2000 at Uppsala University, Sweden

- Objectives of the DiVA Project:
  - Development of technical solutions and work flows supporting full text publishing, storage and dissemination of university research
  - Explore ways to ensure future access, usability and understanding of digital objects in the archive

- 2006 – cooperation within 17 universities in Sweden(15), Denmark (1) and Norway (1)

- Cooperation with the National Library from the very beginning

The DiVA System (1)

- fully operational since January 2003

- built on Java and XML technologies

- usage of open source where possible and appropriate

- consists of several modules

  - repository

  - publishing system

  - authoring tools

  - joint portal at http://www.diva-portal.org

  - search services

  - dissemination services

  - dark archive

The DiVA System (2)

- work flows for printing and electronic publishing

- reuse of metadata submitted by the creator/author
  - web pages
  - title page and cover for printed version
  - dissemination (National Catalogue, OAI-PMH and RSS)

- full-text publication from XML (public available TOC and references)

The DiVA Consortium

- open to all universities and publicly financed research departments (not only in Scandinavia)

- clear terms of participation and good communication for ensuring efficiency and sustainability

  – user group meetings twice a year

  – helpdesk for administrators

  – Wiki with documentation and FAQ

  – mailing list

  – newsletter

- development budget

Collaboration

- collaboration with the National Library of Sweden from the very beginning
  - resolution service http://urn.kb.se
  - archiving of metadata and documents
- research projects on the national and international level in these areas:
  - electronic publishing
  - long-term preservation, usability and access
  - content mark up in general

Ongoing Development

- new complex object format based on DIDL or METS

- extension of current metadata model for new document types and other digital objects

- advanced metadata description
  - rights metadata
  - technical metadata
  - administrative metadata

- web based, flexible work flow system

Future Development

- enhanced and flexible repository solution (e.g. Fedora) supporting OAIS

- improved and more flexible work flow system

- extended metadata description

- sophisticated search and browse functionality on the document level

- advanced module for print on demand services

- tools for semantic mark up

Summary

- DiVA has been operational for over tree years

- next generation of DiVA is about to be born

- coming version entirely based on open source software and will incorporate new modules for storage, indexing and searching

- forming a consortium to ensure future development and operation of DiVA has shown to be a success

- to share knowledge, experience and costs is of great value