



THE AUSTRALIAN NATIONAL UNIVERSITY

DSpace User Group Meeting

31 January – 1 February 2006

Open Repositories 2006

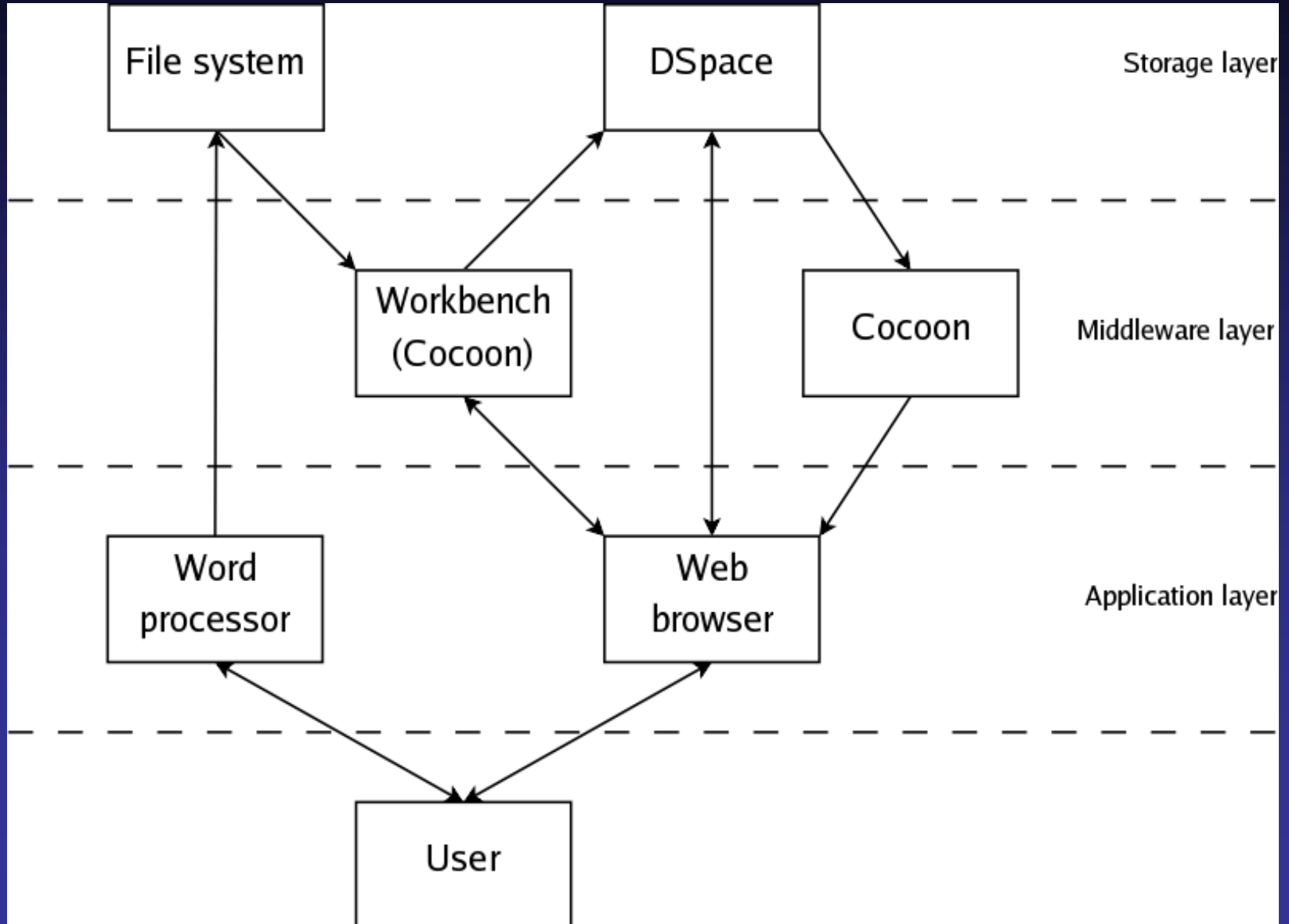
One-click DSpace Ingestion with the Digital Scholar's Workbench

Dr Ian Barnes

Scott Yeadon

- Environment to support seamless integration of academic document authoring with institutional repository
- Automatically generate archival version of documents
- Provide rendering environment via Cocoon
- Provide automatic metadata extraction
- Allow academics to use word processor of choice

High-level Architecture



Workbench View

- Cocoon-driven web-based interface
- Academic works in the filesystem using their favourite word processor
- Workbench provides PDF and XHTML previews (via Cocoon) of the document after converting from Word/OO to DocBook
- Academic can deposit DocBook to DSpace or publish in other locations (e.g. WebCT, personal website) from Workbench


Sample Ice document - Mozilla Firefox

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http://localhost:8888/workbench/ICE-sample.odt.html

Sample Ice document DSpace at The Austral...

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Digital Scholar's Workbench

Sample Ice document

Document Actions

- Blog this
- Version control - register
- Version control - revert/sync
- Version control - commit
- [Upload to DSpace](#)
- Upload to WebCT
- Publish to web site

View As

- Plain XHTML
- ANU HTML**
- PDF
- DocBook XML
- Open Document XML
- XSL-FO

Sample Ice document

Ian Barnes

Monday, 16 January 2006, 10:26:18 AM

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Find: Find Next Find Previous Highlight Match case

http://stdsdemo1.anu.edu.au:8080/deposit?stylesheet=/usr/local/apps/doc-deposit-demo/dc.xsl&userid=ian.barnes@anu.edu.au&collection=123456789/1096&url=http://stds...

- DSpace authorisation required
- DepositDocument servlet
 - uses XSLT to extract metadata from Docbook
 - DSpace API to load item and metadata
- Item page shows available formats (generated dynamically by Cocoon)
- DocBook is the ONLY version actually stored in the repository
- Metadata can be extracted from the document using XSLT

DSpace at The Australian National University: Log In - Mozilla Firefox

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http://stsdemo1.anu.edu.au:8080/password-login;jsessionid=63A12FDE2F78EAC883BDC0C61? Go

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DSpace™

[About DSpace Software](#)

Log In to DSpace

[Help...](#)

[New user? Click here to register.](#)

Please enter your e-mail address and password into the form below.

E-mail Address:

Password:

[Have you forgotten your password?](#)

Valid XHTML 1.0! DSpace Software Copyright © 2002-2005 MIT and Hewlett-Packard - [Feedback](#)

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Done

DSpace at The Australian National University: Item 123456789/1122 - Mozilla Firefox

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http://stsdemo1.anu.edu.au:8080/handle/123456789/1122?mode=full&submit_simple=Show+full- Go

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[Authors](#)

[By Date](#)

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authorized users

[Edit Profile](#)

[Help](#)

[About DSpace](#)

date.issued 2006-01-24T04:34:43Z

identifier.uri http://hdl.handle.net/123456789/1122

format.extent 18163 bytes

format.mimetype application/docbook+xml

language.iso en_US

title Sample Ice document

date.published 2006-01-16T10:26:18+11:00

author.affiliation The Australian National University

Appears in Collections: [Dr Ian Barnes](#)

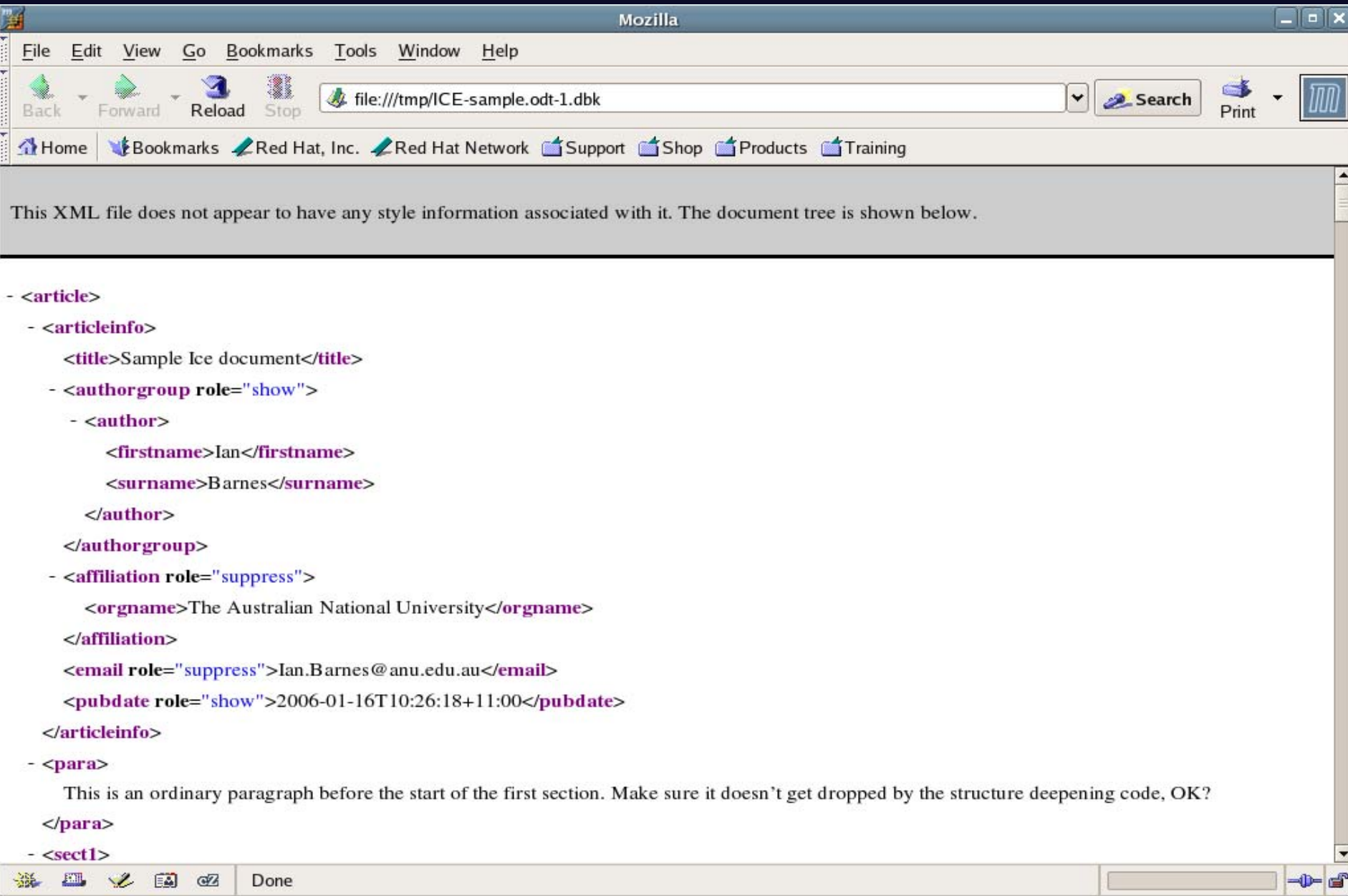
Files in This Item:

File	Size	Format	
ICE-sample.odt.dbk	17Kb	DocBook XML	View/Open
ICE-sample.odt.html		HTML	View/Open
ICE-sample.odt.pdf		PDF	View/Open

[Show simple item record](#)

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Done



Mozilla

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Back Forward Reload Stop file:///tmp/ICE-sample.odt-1.dbk Search Print

Home Bookmarks Red Hat, Inc. Red Hat Network Support Shop Products Training

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
- <article>
  - <articleinfo>
    <title>Sample Ice document</title>
  - <authorgroup role="show">
    - <author>
      <firstname>Ian</firstname>
      <surname>Barnes</surname>
    </author>
  </authorgroup>
  - <affiliation role="suppress">
    <orgname>The Australian National University</orgname>
  </affiliation>
  <email role="suppress">Ian.Barnes@anu.edu.au</email>
  <pubdate role="show">2006-01-16T10:26:18+11:00</pubdate>
</articleinfo>
- <para>
  This is an ordinary paragraph before the start of the first section. Make sure it doesn't get dropped by the structure deepening code, OK?
</para>
- <sect1>
```

Done

DSpace at The Australian National University: Home - Mozilla Firefox

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http://stdemo1.anu.edu.au:8080/render?format=html&handle=123456789/1122&id=1677

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DSpace™

[About DSpace Software](#)

Logged in as [scott.yeadon@anu...](#) (Logout)

DSpace at The Australian National University >

Sample Ice document

Ian Barnes

Monday, 16 January 2006, 10:26:18 AM

Search DSpace

[Advanced Search](#)

[Home](#)

Browse

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- [Authors](#)
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Sign on to:

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What is DSpace?

The ANU's institutional repository, ANU DSpace, aims to preserve and provide access to the University's research and teaching accomplishments.

ANU DSpace is a tool for collecting, disseminating, and preserving collections including technical reports, working papers, student projects, research data, images, etc.

Contribute to DSpace

If you are a member of the ANU community and would like to be a contributor to the repository see the [Digital Resources Program website](#).

Find: Highlight Match case

Done

ICE-sample.odt-4.pdf

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 - 6.1.1.1.2. Second sub-sub-subheading 5
 - 6.1.1.2. Second sub-sub-subheading 5
 - 6.1.2. Second sub-subheading 5
 - 6.2. Second subheading 5
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es

n/docbook+xml

e document

6T10:26:18+11:00

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nes

Format

ICE-sample.odt.dbk	17Kb	DocBook XML	View/Open
ICE-sample.odt.html		HTML	View/Open
ICE-sample.odt.pdf		PDF	View/Open

Show simple item record

- Support for Multimedia Publications
- Archival issues (what and how to archive – DocBook, OpenDocument, both?)
- Production-level Development and Deployment



Supported By:

- Dr Adrian Burton – APSR Program Manager
- Support and direction:
 - Dr Peter Sefton (RUBRIC Technical Manager, ICE Developer)
 - Dr Peter Raftos (Program Leader, Digital Resource Services (DRS))
 - Leo Monus (DRS Software Engineer)