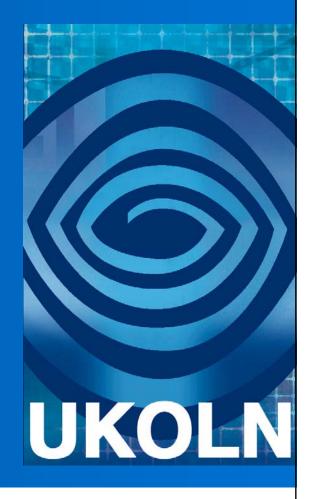
Making Repository Deposit Easier With SWORD

15th October 2009

DSpace User Group Meeting 2009 Göteborgs Universitet, Sweden

Adrian Stevenson SWORD Project Manager



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SWORD Quick Introduction

- Vision: "lowering barriers to deposit"
- Simple Web service Offering Repository
 Deposit (at least for now!)
- Aims to provide a standard mechanism for 'doing deposit' into repositories
- JISC funded project started 2007, SWORD 2 from June 2008



SWORD3 starting now



What is it?

- A lightweight protocol for deposit
- A profile of the Atom Publishing Protocol
- Implementations of SWORD in IntraLibrary, Fedora, DSpace and Eprints repositories
- SWORD clients web-based, desktop, Facebook client, MS Office add-on, widgets





Motivations – why?

- no standard interface available for tagging, packaging or authoring tools to upload objects into a repository
- no standard interface for transferring digital objects between repositories
- no way to deposit into more than one repository with one 'click'
- no way of initiating a deposit workflow from outside a repository system





Use Cases

- Deposit from a Desktop/Online tool
- Multiple deposit e.g. deposit to institutional and (mandated) funders' repository with one action
- Machine deposit e.g. automated deposit from a laboratory machine
- Migration/transfer e.g. to a preservation service
- Mediated deposit e.g. deposit by a nominated representative, to additional repositories





The Project Partners

• SWORD partners:

- UKOLN Adrian Stevenson (project management)
- University of Cambridge Jim Downing (profile)
- University of Aberystwyth (DSpace, Fedora, & clients) -
- Stuart Lewis, Neil Taylor, Glen Robson, Richard Jones
- University of Southampton (EPrints) Les Carr, Seb Francois
- Intrallect (IntraLibrary) Andrew Robson
- University of York Julie Allinson





SWORD AtomPub Profile



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Standards

- WebDAV (http://www.webdav.org/)
- JSR 170 (http://www.jcp.org/en/jsr/detail?id=170)
- JSR 283 (http://www.jcp.org/en/jsr/detail?id=283)
- SRW Update (http://www.loc.gov/standards/sru/)
- Flickr Deposit API (http://www.flickr.com/services/api/)
- Fedora Deposit API (http://www.fedora.info/definitions/1/0/api/)
- OKI OSID (http://www.okiproject.org/)
- ECL (http://ecl.iat.sfu.ca/)
- ATOM Publishing Protocol

(http://www.ietf.org/htmlcharters/atompub-charter



"The Atom Publishing Protocol is an application-level protocol for publishing and editing Web resources"

benefits

- supports many parameters and requirements file deposit
- already exists and has growing support blogs
- has an extension mechanism
- good fit with Web Architecture
- drawbacks / risks
 - retrofit?
 - designed for a single package/file or an atom document means that we need to package metadata and files



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SWORD AtomPub Profile

- SWORD profile builds on AtomPub
- Provides set of extensions, constraint relaxations and enforcements for:
 - Clients posting compound resources (zip,tar)
 - When mediated deposit required
 - Where workflows involved
- Part A adds to AtomPub, Part B highlights how SWORD diverges
- SWORD compliance does not preclude AtomPub
 compliance





SWORD APP Package Support

- AtomPub uses MIME to describe resources
- Inadequate for compound types e.g.
 - Zip, tar
 - METS, IMS-CP, MPEG21, DIDL packages
- SWORD extends AtomPub:
 - sword:acceptPackaging element
 - Value taken from SWORD package types





SWORD APP Mediated Deposit

- SWORD deposit client user may not be owner of resource
- SWORD allows clients to set a HTTP header:
 - X-On-Behalf-Of
- Assumes trust between owner and mediating user



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SWORD APP Developer Features

- No-Op (Dry Run)
- Verbose Output
- Client and Server Identity
- Auto-Discovery
- Error Documents
- Nested Service Description



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SWORD APP Error Documents

- SWORD adds new class of doc to AtomPub to allow better error description
 - ErrorContent
 - ErrorChecksumMismatch
 - ErrorBadRequest
 - TargetOwnerUnknown
 - MediationNotAllowed





SWORD Profile of AtomPub

- Part B follows AtomPub spec highlighting where SWORD profile diverges
- Covers:
 - Protocol Operations
 - Retrieving Service Document
 - Listing Collections
 - Creating a Resource
 - Editing a Resource Not currently implemented
 - Category Documents MUST NOT be required
 - Service Documents
 - SWORD requires support for service documents
 - new elements: version, verbose, noOp, maxUploadSize



How it Works

- APP and SWORD work by issuing HTTP requests (GET, POST)
 - GET Service Document (explain/discover)
 - POST a file or package to collection URI
- HTTP response and ATOM document is returned
- HTTP basic authentication is required



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SWORD In Use



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Implementations

- Repository implementations
 - DSpace
 - EPrints
 - IntraLibrary
 - Fedora
- Client implementations
 - command-line, desktop and web clients
 - Facebook Client
 - Java, PHP and .NET libraries
 - Deposit from within MS Word
 - Feedforward / FOREsite and others: http://www.swordapp.org/sword/implementation





Web Interface

| 00 | SWORD Web Client | | |
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| Clients and Demonstrators — S 😧 🛞 | SWORD Web Client | | |
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| VORD Servlet Client - sele | ct a service document | | |
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| elect a service document, or enter anoth RL: http://dspace.swordapp.org/sword/service | | | |
| RE: (http://dspace.swordapp.org/sword/service | ocument other: | | |
| sername: a.stevenson@ukoln.ac.uk | | | |
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|) Clients and Demonstrators - S. | . 3 SWORD Servlet Client: Service D 3 | |
| WORD Web Client | Service Document | |
| Server details: | | |
| Status: Code: 200, Messa | ae: 'OK' | |
| • URL: http://glen.dnsalias. | | |
| • Version: 1.3 | | |
| Supports verbose output: | true | |
| Supports noOp: true | | |
| Maximum file upload size: | -2147483648 kB | |
| Service document: | | |
| Workspace: Fedora SWOR | D Workspace | |
| O Collection: <u>Open Co</u> | <u>llection</u> (Deposit) | |
| Abstract: Thi | s is a collection of objects which can be freely deposited to. This is aviable for the SN | WORD test project |
| Treatment: P | reservation actions may occur on submited deposits | |
| Collection po | icy: This collection accepts any deposit from anyone | |
| Mediation: tr | | |
| | /xml, application/zip, application/x-zip-compressed, application/atom+xml, image/g | |
| Accepted pace | kaging formats: http://purl.org/net/sword-types/METSDSpaceSIP (0.9), http://www | w.loc.gov/METS/ (0.9) |
| O Collection: <u>Geograp</u> | hy Collection Deposit | |
| Abstract: Thi | s is a nested collection of geography objects | |
| | reservation actions may occur on submited deposits | |

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- Collection policy: This collection accepts any deposit
- Mediation: true
- Accepts: application/zip
- Accepted packaging formats: http://purl.org/net/sword-types/METSDSpaceSIP (0.9)

Fedora Deposit response

| 00 | SWORD Servlet Client: Deposit | \Box |
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SWORD Web Client: Deposit

ID: sword:1008

- Title: Uploaded by the JISC funded SWORD project
- Author: sword
- Summary: null
- Updated: 2009-03-22T16:53:00Z
- Link: (edit) <u>http://glen.dnsalias.org/sword/collection:open/sword:1003</u>
- Treatment: Preservation actions may occur on submitted deposits
- Generator: null
- User Agent: CASIS Test Client
- Packaging: null

Full response

<?xml version="1.0" encoding="UTF-8"?> <atom:entry xmlns:atom="http://www.w3.org/2005/Atom" xmlns:sword="http://purl.org/net/sword/"> <atom:id>sword:1008</atom:id> <atom:author> <atom:name>sword</atom:name> </atom:author> <atom:content type="image/jpg" src="http://glen.dnsalias.org:8080/fedora/get/sword:1008/ServletClient-1"/> <atom:generator uri="http://glen.dnsalias.crg/sword" version="1.3"/> <atom:link href="http://glen.dnsalias.org/sword/collection:open/sword:1008" rel="edit" hreflang="en"/> <atom:published>2009-03-22T16:53:00Z</atom:published> <atom:rights type="text"/> <atom:summary type="text"/> <atom:title type="text">Uploaded by the JISC funded SWORD project</atom:title> <atom:updated>2009-03-22T16:53:00Z</atom:updated> <sword:treatment>Preservation actions may cccur on submited deposits</sword:treatment> <aword:noOp>false</aword:noOp> <sword:userAgent>CASIS Test Client</sword:userAgent> </atom:entry>

Validate

Done

Validation

| 000 | SWORD Validation Results | \bigcirc |
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<sword /> SWORD Validation Results

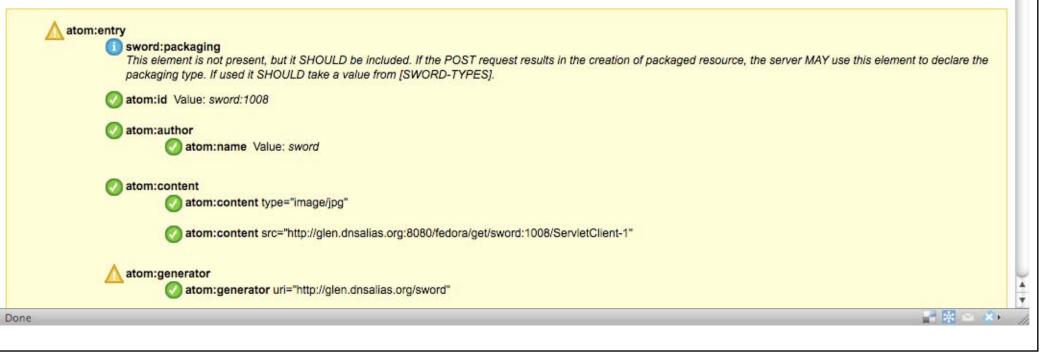
These results show a list of any errors, warnings and information messages that are relevant to the specified element. The full element is shown below.

The results represent the hierarchy of elements that are present in the submitted element.

Context

The following context was use when validating the element

| No Op: false |
|-------------------|
| Verbose: false |
| User Agent: null |
| Contributor: null |



Deposit via Facebook

| facebool | (Home | Profile | Friends | Inbox | 8 | | | Adrian Stevenson | Settings | Logout |
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| (And | Welcome bac | k to SWO | RDAPP Adria | n! | | | | | | |
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| Deposit a | n item – Step | 1: Select | a repository | | | | | | | |
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| | Or Ent | er a new | one: | | | | | | | |
| | | Usern | ame: a.s | tevensor | n@ukoln.ac.uk | | | | | |
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SWORDAPP - The Repository Deposit Tool



Welcome back to SWORDAPP Adrian!

| Home | Deposit an item | See my items | See items by my friends | About SWORDAPP | |
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|------|-----------------|--------------|-------------------------|----------------|--|

Deposit an item - Step 2: Select collection

Server details: Connection OK! (show details)

Please choose from one of the following collections to make your deposit:

- Workspace: DSpace SWORD Demo
 - · Collection: Data sets (A collection for depositing data sets)
 - Deposit into this collection
 - See full collection details...
 - · Collection: Research materials (A collection for depositing research materials)
 - Deposit into this collection
 - See full collection details...
 - · Collection: Teaching materials (A collection for depositing teaching materials)
 - Deposit into this collection
 - See full collection details...

SWORDAPP – The Repository Deposit Tool



Welcome back to SWORDAPP Adrian!

| | Home | Deposit an item | See my items | See items by my friends | About SWORDAPP | |
|--|------|-----------------|--------------|-------------------------|----------------|--|
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Deposit an item - Step 3: Item details

- Deposit to: http://dspace.swordapp.org/sword/deposit/123456789/4
- · Collection title: Research materials
- Abstract: A collection for depositing research materials

| Type of item: | Journal article |
|----------------------------------|-------------------------------|
| Has the item been peer reviewed: | Yes 💌 |
| Title: | Ade in Amsterdam |
| Abstract: | Ade sitting in Amsterdam cafe |
| 1st author first name: | Adrian |
| 1st author surname: | Stevenson |

facebook Home Profile Friends Inbox 8

SWORDAPP – The Repository Deposit Tool



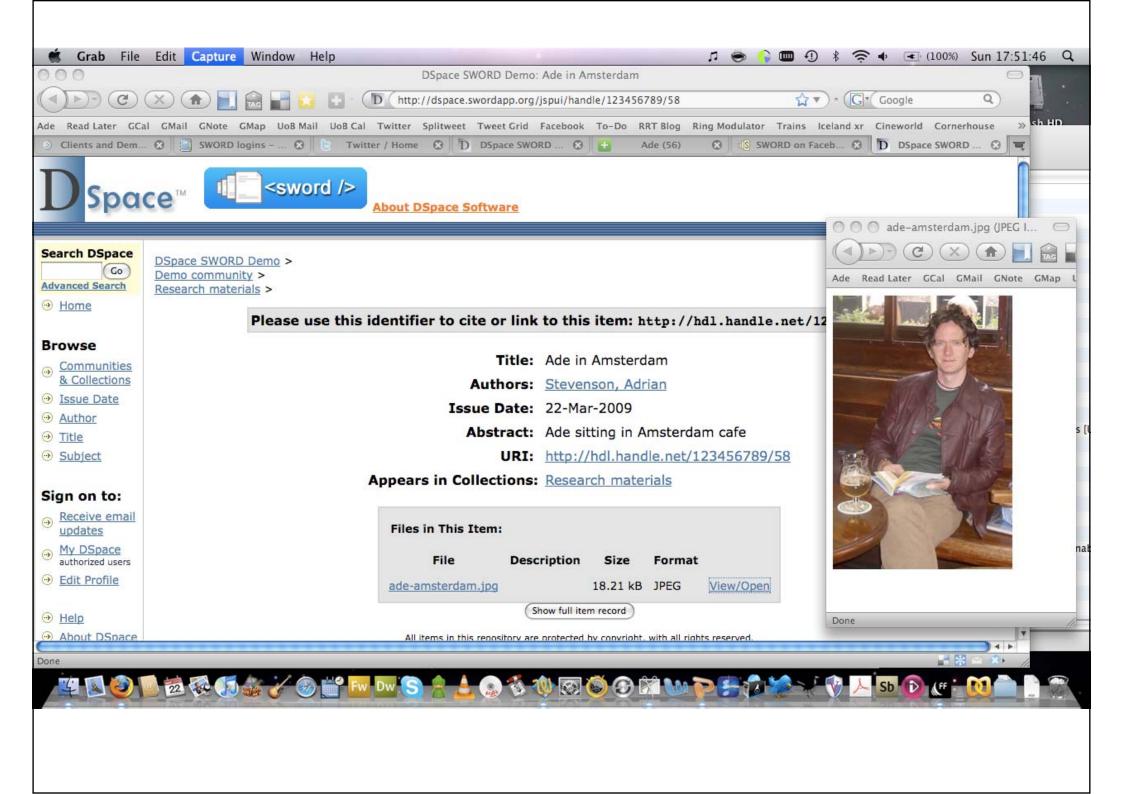
Welcome back to SWORDAPP Adrian!

| , |
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Deposit an item - item deposited!

You have succesfully deposited 'Ade in Amsterdam' whose URL is now http://dspace.swordapp.org/jspui/handle /123456789/58

Adrian Stevenson Settings Logout



| $\bigcirc \bigcirc \bigcirc$ | | SWORD Demons | tration Client | | | |
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| File Options Help | | | | | | |
| | | | | | | |
| Services & Posted Files | A A | Collection Policy | This collection accepts any deposit from anyone | | | |
| http://sword.aber.ac.uk/dspace-sword/servicedocument DSpace at My University | | Namespace | uri | | | |
| C Collection with workflow step 1 | | Treatment | Preservation actions may occur on submited deposits | | | |
| Daggers | | Mediation | true | | | |
| © SWORDS © Simple Collection ▼ S http://glen.dnsalias.org/sword/servicedocument ▼ W Fedora SWORD Workspace © Open Collection | • | Accepts | text/xml application/zip application/x-zip-compressed application/atom+xml image/gif image/jpg image/jpg | | | |
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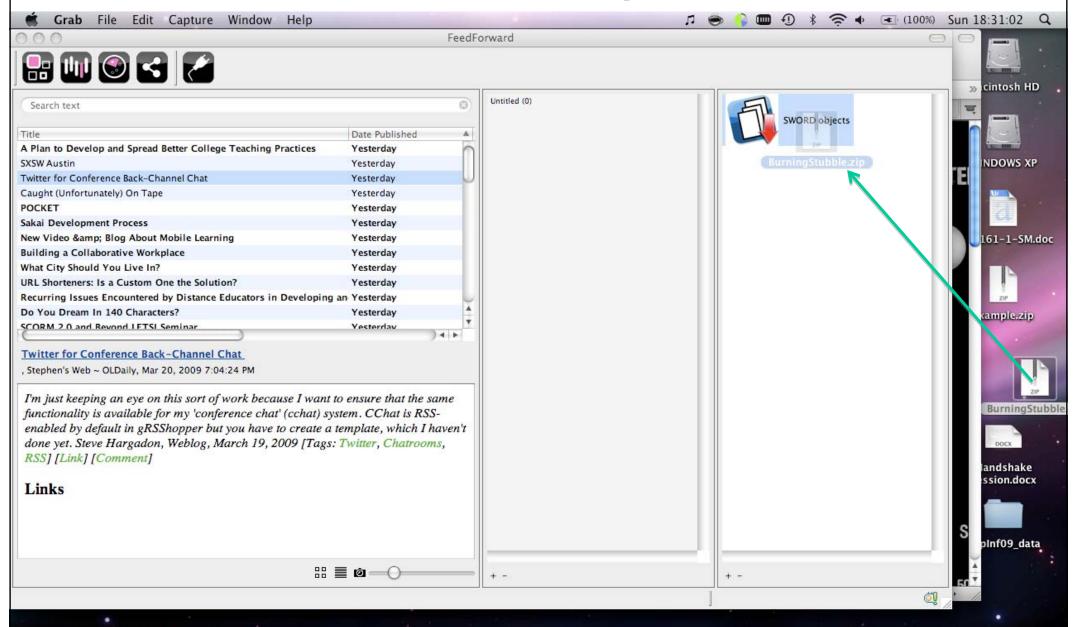
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| | and de novo deletion of Alus and other | Author | SWORD User |
| | dispersed repeats at specific loci in the | Summar | y . |
| | human genome | Treatme | nt |
| ID | http://dspace.swordapp.org/jspui/handle | Generato | r http://sword.intralibrary.com |
| | /123456789/56 | Link | http://sword.intralibrary.com/IntraLibrary-Deposit |
| Author | Hollies, C.R. | 1. | /edit/learning_object_id118 |
| Summary | Dispersed repeat elements contribute to genome instability by de novo insertion | Edit | http://sword.intralibrary.com/IntraLibrary-Deposit/e media/learning_object_id118 |
| | and unequal recombination between repeats. To study the dynamics of these | Publishe | d |
| | processes, we have developed single DNA molecule approaches to detect de novo insertions at a single locus and Alu-mediated deletions at two different | Click her | re to make another deposit |
| | loci in human genomic DNA. Validation experiments showed these approaches | 6 | |
| | could detect insertions and deletions at | | |
| | frequencies below 10(-6) per cell. | | |
| | However, bulk analysis of germline | | |

FeedForward Deposit



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OfficeSWORD Add-on

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| Reget 1 of 1 Workin 5 English (Unite | d States) |

SWORD in use

- More implementations ...
 - ICE project is using SWORD
 - EU PEER project implementing SWORD
 - Microsoft Zentity Research-Outputs Repository
 - OAI-ORE FOREsite work
 - EM-Loader
 - YODL-ING University of York
 - Others coming along all the time
- Collaboration with publishers
- Any more? Let us know.





SWORD Phase 3

- 11 months, starting now
- Support interest and activities around SWORD
- SWORD package types list/registry
- SWORD enabled repositories registry?
- Formal standardisation?
- SWORDCamp?



Renewed and increased advocacy efforts



SWORD3 - Development work

- Maintenance and development of SWORD application profile
- Update SWORD demonstrator repositories and clients
- Synergies with project activity in the area
- Tie in with repository handshake strand of international repositories workshop





SWORD 3 - Community Support & Advocacy

- Reflective piece on why SWORD has been a success
- Devise a support model for SWORD
- Increase uptake by marketing and promotion
- Additional use and implementation case studies



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SWORD3 - Prototyping Registries

- Prototype SWORD package types registry.
- Prototype 'SWORD enabled' repositories registry?
- Explore adding 'SWORD enabled' info to existing registries e.g.
 OpenDOAR



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SWORD3 - Standardising SWORD

- Investigate standardising SWORD profile with e.g. NISO, CEN, and others. Suggestions?
- Evaluate cost/benefit and make recommendations.
- Consider alternatives to formal standardisation





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SWORD3 - SWORDCamp

- Idea from Monday's deposit show-and-tell in London
- A week of hands on development
 - agree package standard in advance
 - Based on OAI-ORE
 - update demonstrators
 - update their clients/code
- Timed to coincide with Open Repositories
 2010





More Info and Contact

- SWORD Website:
- http://www.swordapp.org
- http://twitter.com/swordapp
- General queries:
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- Technical queries:
 - Sword sourceforge list



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