SWORD 2.0

Supporting Full Deposit Lifecycles

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What is the purpose of SWORD?

The purpose of SWORD is to:

Provide an *interoperable interface* that allows *deposits* to be *easily* made *into repositories*.
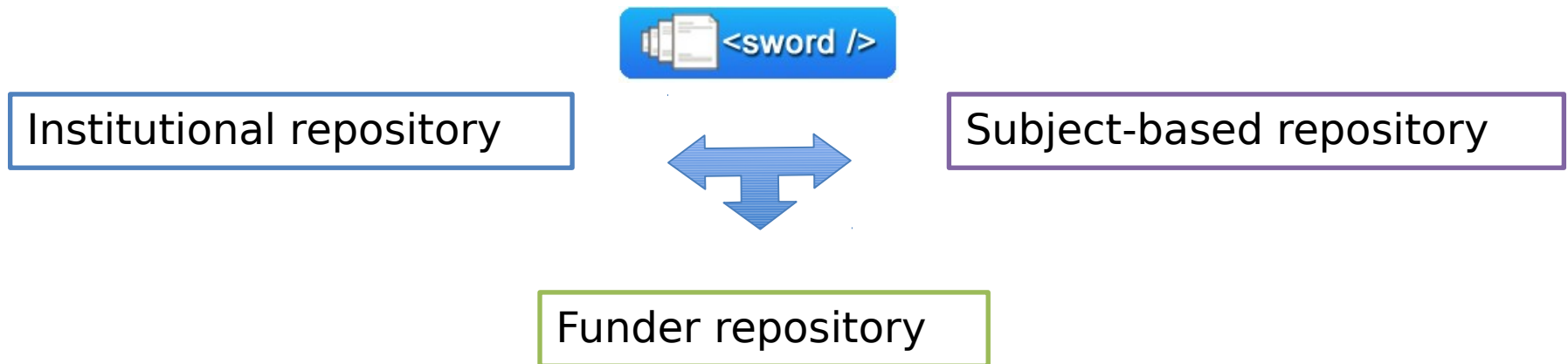
SWORD use cases

Deposit from a desktop client

e.g. DepositMO

SWORD use cases

Deposit to multiple repositories

Institutional repository

Subject-based repository

Funder repository

e.g. OA-RJ

SWORD use cases

Deposit by lab equipment

SWORD use cases

Repository to repository deposit

Institutional repository → `<sword />` → National repository

SWORD use cases

Publishing system / publisher to repository deposit

| Publishing system (e.g. OJS) | → <sword /> → | Long term storage repository |

e.g. OJS client

SWORD use cases

Research Information System to repository deposit

| Research Information System | → | <sword /> | → | Long term storage repository |

e.g. Bibapp client
RePosit project

SWORD 2.0 Project Organisation

Project Team
Paul Walk – Project Director
Stuart Lewis – Community Manager
Richard Jones – Technical Lead

Technical Advisory Group
~30 International Members

Developers
Tim Brody
    (EPrints Server)
Richard Jones
    (Java Client)
Stuart Lewis
    (PHP Client)
Mark MacGillivray
    (BibApp Client, DSpace Server)
Ben O'Steen
    (Python Client)
Eddie Shin
    (Fedora Server)
David Tarrant
    (EPrints Server)

SWORD 2.0 out of scope

Packaging*

Metadata**

Authentication

Authorization

* use Atom Multipart to avoid while still having a "default" format

** use Atom Entries to avoid while still having some metadata options

SWORD 2.0 Timeline

November – February
Consultation and development of a draft profile and internet drafts

March – May
Client and Server Development

SWORD 2.0 Clients/Servers

Clients

PHP (+ Facebook)

Java

Python

Ruby (+ Bibapp)

Servers

DSpace

EPrints

Fedora

Simple SWORD
Server

SWORD 2.0 Documents

Internet Drafts

Packaged Content Delivery over HTTP

AtomPub Extensions for Packaged Content

AtomPub Extensions for Scholarly Systems

Atom Multipart Extensions for Packaged Content

Profile

SWORD Profile

SWORD Ontologies

The Deposit Receipt

```
<entry xmlns="http://www.w3.org/2005/Atom" xmlns:sword=http://purl.org/net/sword/>

    <content type="application/zip"
             src="http://myrepository.ac.uk/geography-collection/deposit1.zip"/>
    <sword:packaging>http://purl.org/net/sword/package/default</sword:packaging>

    <link rel="edit"
          href="http://www.myrepository.ac.uk/geography-collection/my_deposit.atom" />

    <link rel="edit-media"
          href="http://www.myrepository.ac.uk/geography-collection/my_deposit" />

    <link rel="http://purl.net/sword/terms/statement"
          href="http://www.myrepository.ac.uk/geography-collection/my_deposit.rdf" />

</entry>
```

A Banking Analogy

You Deposit your money

You get a Receipt

Your Statement tells you what happened to your money since

Introducing: The SWORD Statement

It tells you what files were produced when the repository unpackaged your deposit

It tells you what new files have been added to your deposit (e.g. via format migration, mediated deposit, etc)

It tells you where to get the package(s) you originally uploaded

It tells you where in the workflow your item is (or any other state that it might be in). For example, "under review" or "deleted"

Can be an OAI-ORE Resource Map

```
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
         xmlns:ore="http://www.openarchives.org/ore/terms/">
    <rdf:Description rdf:about="http://localhost/edit-uri/43/d0">
      <ore:describes rdf:resource="http://localhost/agg-uri/43/d0"/>
    </rdf:Description>
    <rdf:Description rdf:about="http://localhost/agg-uri/43/d0">
      <ore:isDescribedBy rdf:resource="http://localhost/edit-uri/43/d0"/>
      <ore:aggregates rdf:resource="http://localhost/part-uri/43/d0/example.zip"/>
      <sword:originalDeposit rdf:resource="http://localhost/part-uri/43/d0/example.zip"/>
      <sword:state rdf:resource="http://purl.org/net/sword/state/archived"/>
    </rdf:Description>
    <rdf:Description rdf:about="http://localhost/part-uri/43/d0/example.zip">
      <sword:packaging rdf:resource="http://purl.org/net/sword/package/default"/>
      <sword:depositedOn>2011-02-24T19:50:04Z</sword:depositedOn>
      <sword:depositedBy>sword</sword:depositedBy>
    </rdf:Description>
    <rdf:Description rdf:about="http://purl.org/net/sword/state/archived">
      <sword:stateDescription>
          The work has passed through review and is now in the archive
      </sword:stateDescription>
    </rdf:Description>
</rdf:RDF>
```

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The SWORD project

http://swordapp.org/

Funded by JISC

http://www.jisc.ac.uk/

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