



OJS Plugins: Content Packaging and Repository Deposit

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Content Deposition

- Extension of APSR-funded work carried out in 2007/2008
- Packaging of content using METS
- Deposition of content using SWORD
- Implementation in OJS



Constraints and Goals

- Distributed network of people and machines with differing platforms and requirements
- Explore packaging and deposit standards through real-world implementation
- Support interoperability via use of open, published standards
- Contribute to standards work where possible
- Contribute to the open source community



Importance of Package Definition

- A contract between parties for the interchange of content
- Provides shared understanding at both human and machine level
- Must be defined at a level to suit its operational context
- Should be independent from software applications

Packaging

- Australian METS Profile v1.0
- Three tiers of profile
- Core Profile - common rules/vocabularies/schemas
- Content Profile - subclass of Core Profile with additional rules/vocabs/schemas for content type
- Implementation Profile - subclass of Content Profile with additional rules/vocabs/schemas plus technical requirements for implementation context



OJS Packaging Plugin

- OJS METS Export Plugin
- OJS Implementation Profile
- Compliant with Australian METS Profile, Journal Profile with the addition of metadata mappings and technical constraints



Deposit

- SWORD - Simple Web-service Offering Repository Deposit
- ATOM Profile with extensions
- SWORD defines a protocol for depositing a package to some target, typically a repository
- Version 1.3 of the profile recently released with reference implementations for DSpace and Fedora to follow



OJS SWORD Deposit Plugin



- Provides configuration of deposit targets
- Constructs a Journal METS-compliant package from an entire journal or selected issue(s)
- Initial request to a deposit target to obtain service document describing the valid target collections and accepted package formats
- Deposit request to submit the package
- Deposit details are retained in the OJS database
- Tested against DSpace/Manakin and Fedora SWORD 1.2 reference implementation

METS and SWORD Plugins

Humanities Research Journal

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Home > User > Journal Management > **Import/Export Data**

Import/Export Data

- [CrossRef XML Export Plugin](#): Export article metadata in CrossRef XML format.
- [DOAJ Export Plugin](#): Export Journal for DOAJ and email DOAJ representative journal information
- [Erudit Article Export Plugin](#): Export articles using the English Erudit DTD
- [METS XML Export Plugin](#): Export Journals in METS XML
- [Articles & Issues XML Plugin](#): Import and export articles and issues
- [PubMed XML Export Plugin](#): Export article metadata in PubMed XML format for indexing in MEDLINE.
- [SWORD Deposit](#): Deposit Journals in SWORD-compliant Repositories
- [Users XML Plugin](#): Import and export users

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SWORD Plugin

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Home > User > Journal Manager > Import/Export Data > **SWORD Deposit**

SWORD Deposit

Deposit

- » [Deposit The entire Journal](#)
- » [Deposit Issues](#)

Deposit Target

- » [View available Deposit Target](#)

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Configure SWORD Targets

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Home > User > Journal Management > **View available Deposit Target**

View available Deposit Target

Target Title Scott's DSpace
Target Type DSpace
Description A Demonstration DSpace Instance
SWORD Server Url https://localhost:8443/dspace-sword/
Format NS http://www.loc.gov/standards/mets/profiles/00000019.xml

[Edit](#) [Remove](#)

Target Title Scott's Fedora
Target Type Fedora
Description A Demonstration Fedora Instance
SWORD Server Url http://localhost:8080/sword/app/
Format NS mets

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Select Deposit Target

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Select Target

ISSUE	PUBLISHED	ITEMS
Bigotry and Religion in Australia, 1865-1950	2006-05-12	11

DEPOSIT TARGET	USER NAME	PASSWORD	ACTION
Scott's DSpace	<input type="text" value="leo.monus@anu.edu.au"/>	<input type="password" value="....."/>	<input type="button" value="List Targets"/>
Scott's Fedora	<input type="text"/>	<input type="password"/>	<input type="button" value="List Targets"/>

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Service Document Processed by OJS

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[Home](#) > [User](#) > [Journal Manager](#) > [Import/Export Data](#) > [SWORD Deposit](#) > **Select Deposit Target**

Select Deposit Target

ISSUE	PUBLISHED	ITEMS
Bigotry and Religion in Australia, 1865-1950	2006-05-12	11

DEPOSIT TARGET

Humanities Research Journal

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Deposit Response Processed by OJS

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Home > User > Journal Manager > Import/Export Data > SWORD Deposit >
Deposit completed

Deposit completed

DEPOSIT
TARGET

VIEW ISSUE

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Deposited Issue in DSpace/Manakin

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Deposit History

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Home > User > Journal Management > **View Deposit History**

View Deposit History

Deposit Location	Date Deposited	Remote Username
view archive	2008-11-14 10:09:21	leo.monus@anu.edu.au

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Limitations

- SWORD Specification:
 - Definition of package format
 - Identification of SWORD client
 - Potential for complex deposit responses
- DSpace Implementation
 - DSpace Collection-centric
 - Configurable package handlers not supported
 - Pluggable Service Document and Document Response not supported
- Fedora
 - Content modelling
 - Object management



SWORD Current Status

- Limitations addressed in SWORD 1.3 specification
- SWORD Types Registry Document established
- Feedback provided to reference implementation team
- OJS METS Export in core distribution (OJS v2.2+)
- OJS SWORD Deposit contribution in progress



Next Steps

- Contribute SWORD 1.2 Plugin for PKP review
- Updates to conform with SWORD 1.3 spec
- Testing with DSpace and Fedora SWORD Server 1.3 reference implementations
- Contribute SWORD 1.3 Plugin for PKP review
- Provide feedback to SWORD list



Links

- METS Project: <http://www.apsr.edu.au/nla-mets/index.htm>
- LOC Profiles: <http://www.loc.gov/standards/mets/mets-registered-profiles.html>
- PKP: <http://pkp.sfu.ca/>
- SWORD: <http://www.swordapp.org/>