

Access to Content via Link Resolvers

Neil Mayo (neil.mayo@ed.ac.uk)

EDINA, University of Edinburgh

UK LOCKSS Alliance Members' Meeting

10th May 2011

National Railway Museum, York.



Access to Content via Link Resolvers

Providing access to preserved content

LOCKSS preserves content.

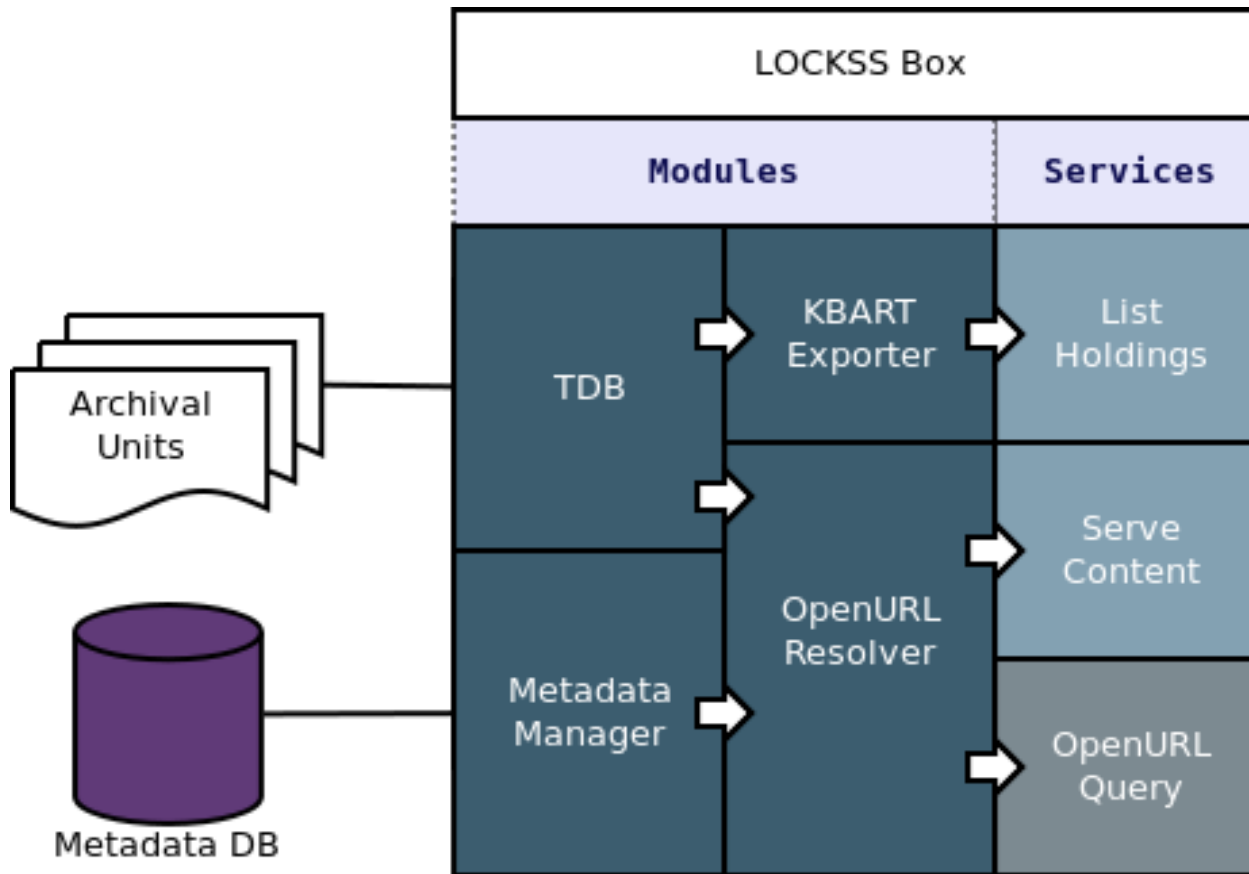
We want to make that preserved content available.

Link resolution is the process of producing appropriate target links to content, based on a bibliographic query.

- Link Resolver integration: we work with vendors to add LOCKSS as a target and produce a LOCKSS target parser
- Link Resolver regularly ingests metadata describing the library holdings
- LOCKSS is configured to serve content on port 8082

Access to Content via Link Resolvers

LOCKSS Components



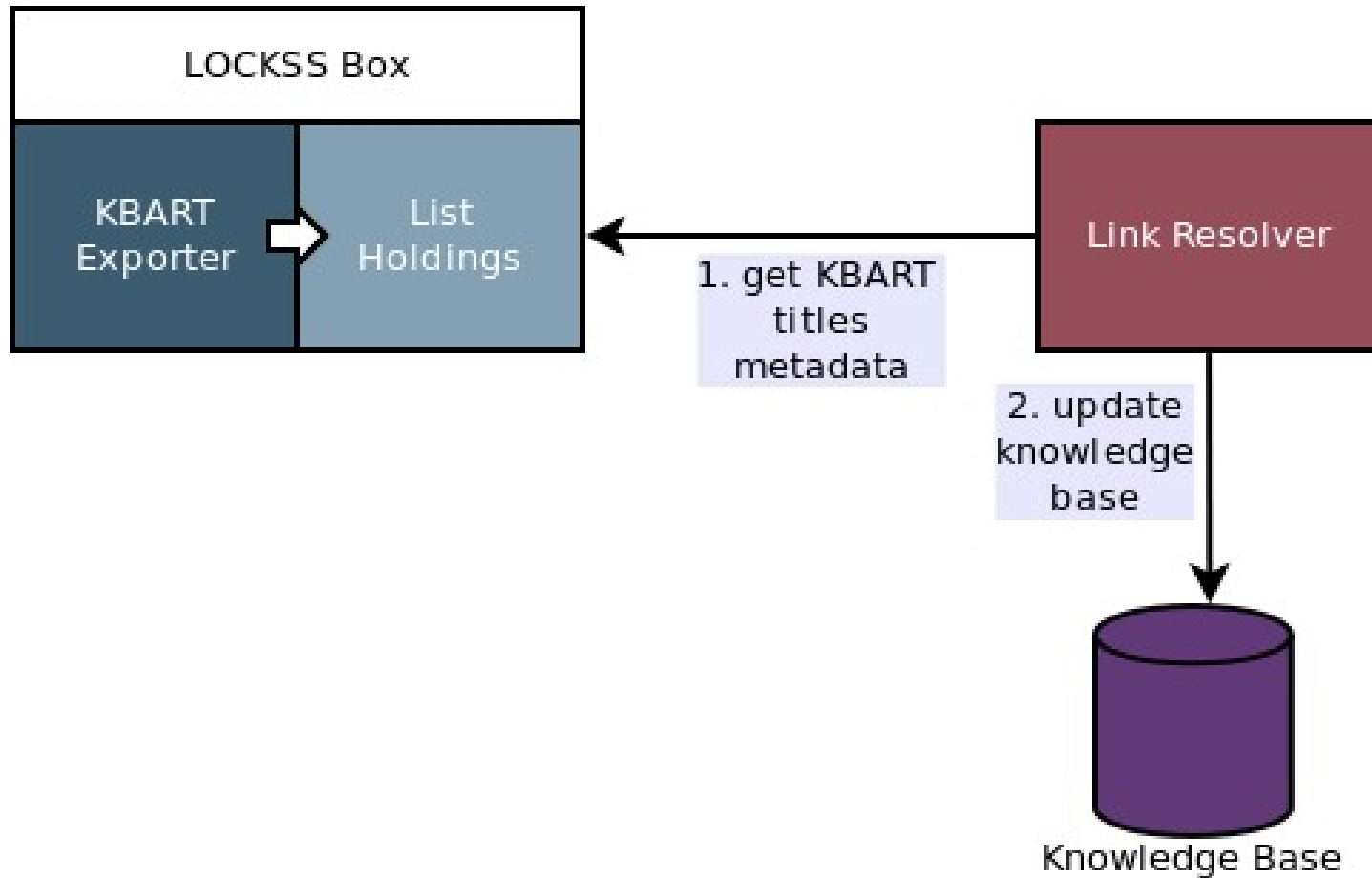
Access to Content via Link Resolvers

Benefits of new features

- Knowledge base updates for link resolver vendors
- Summary of preserved and available content for libraries
- Metadata supporting OpenURL (1.0, 0.1, DOI) resolution
- Content serving based on resolution of OpenURL links from link resolvers

Access to Content via Link Resolvers

Link Resolvers: Knowledge Base Update



Access to Content via Link Resolvers

KBART Exporter

Title data is extracted from LOCKSS' own TDB format and processed to KBART format:

- Titles are split upon coverage gaps of more than a year
- Start and end dates, volumes and issues are calculated
- ISSN identifiers are discovered

The KBART data is output as **CSV** for import into a knowledge base, or **HTML** for online browsing.

The HTML output can be filtered and customised.

Access to Content via Link Resolvers

KBART Sample Output

An example of customised HTML output – ordered by publication_title.

The collection is now queryable!

Reduced and reordered set of fields

Index	publication_title	publisher_name	title_id	date_first_issue_online	date_last_issue_online
1	19th-Century Music	University of California Press	0148-2076		
2	.login:	USENIX Association	1044-6397	1997	2009
3	AAP Grand Rounds	American Academy of Pediatrics	1099-6605		
4	AAP News	American Academy of Pediatrics	1073-0397		
5	Absinthe Literary Review	Absinthe Literary Review	1939-0343	2003	2005
6	Abstract and Applied Analysis	Hindawi Publishing Corporation	1085-3375	1996	
7	Academic Psychiatry	American Psychiatric Publishing Inc.	1042-9670		
8	Accounting History	SAGE Publications	1032-3732		
9	Accounting Research Journal	Emerald Group Publishing	1030-9616	2005	2010
10	Accounting, Auditing & Accountability Journal	Emerald Group Publishing	0951-3574	1988	2010
11	Acta Crystallographica Section E: Structure Reports Online	International Union of Crystallography	1600-5368	2008	2010
12	Acta Neuropathologica	Springer Science+Business Media	0001-6322	1961	2010
13	Acta Radiologica	Royal Society of Medicine Press	0284-1851		
14	Acta Sociologica	SAGE Publications	0001-6993		

Ordered by publication title

Some issue-level information is not available

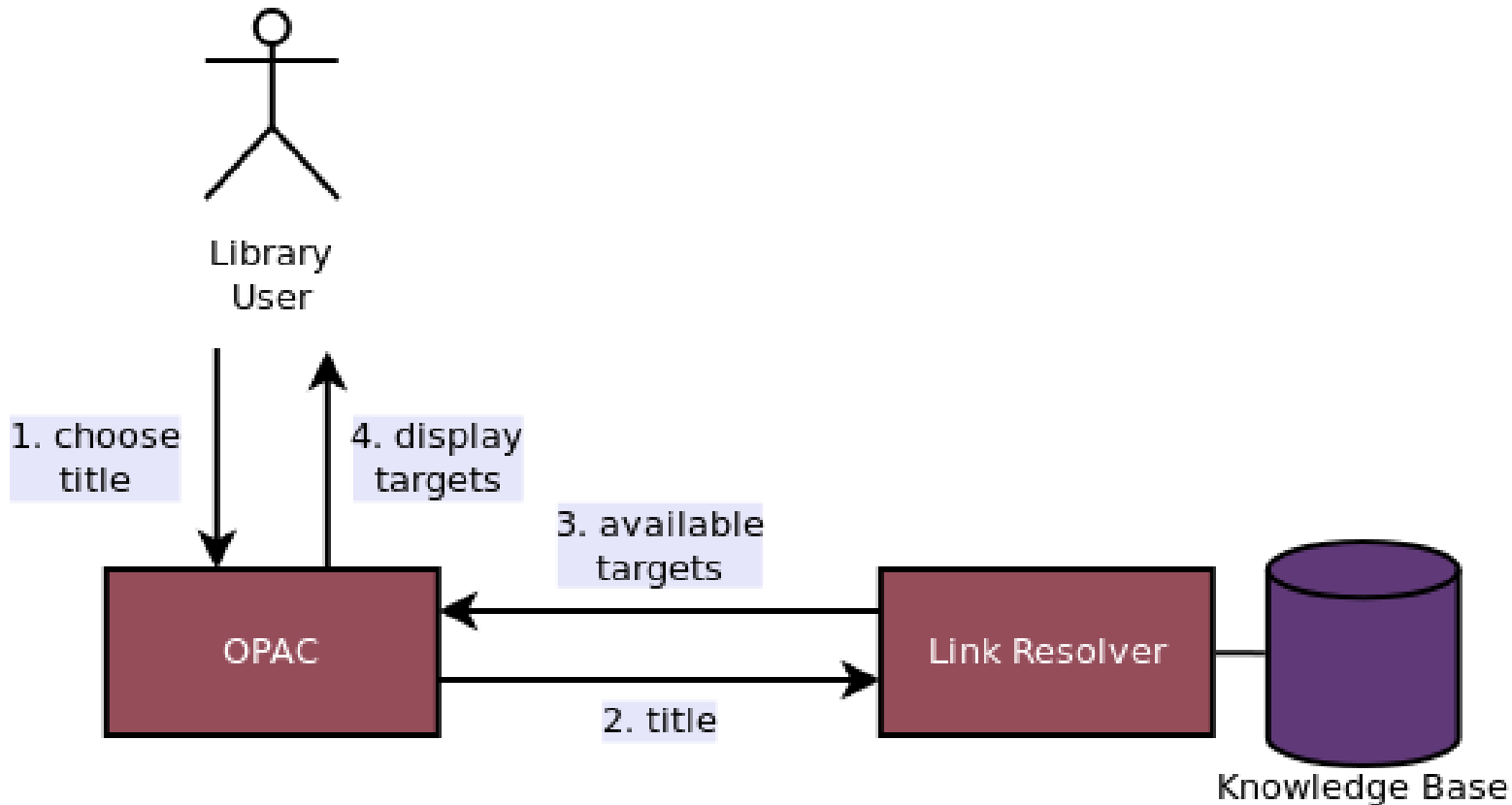
Access to Content via Link Resolvers

The process of providing access

- (1) User conducts a search via Online Public Access Catalog (OPAC) and selects a title
- (2) OPAC consults a Link Resolver to establish possible targets for the requested title
- (3) Available targets are returned based on the holdings data in the knowledge base
- (4) Targets are displayed to the user

Access to Content via Link Resolvers

Library Catalogue Search



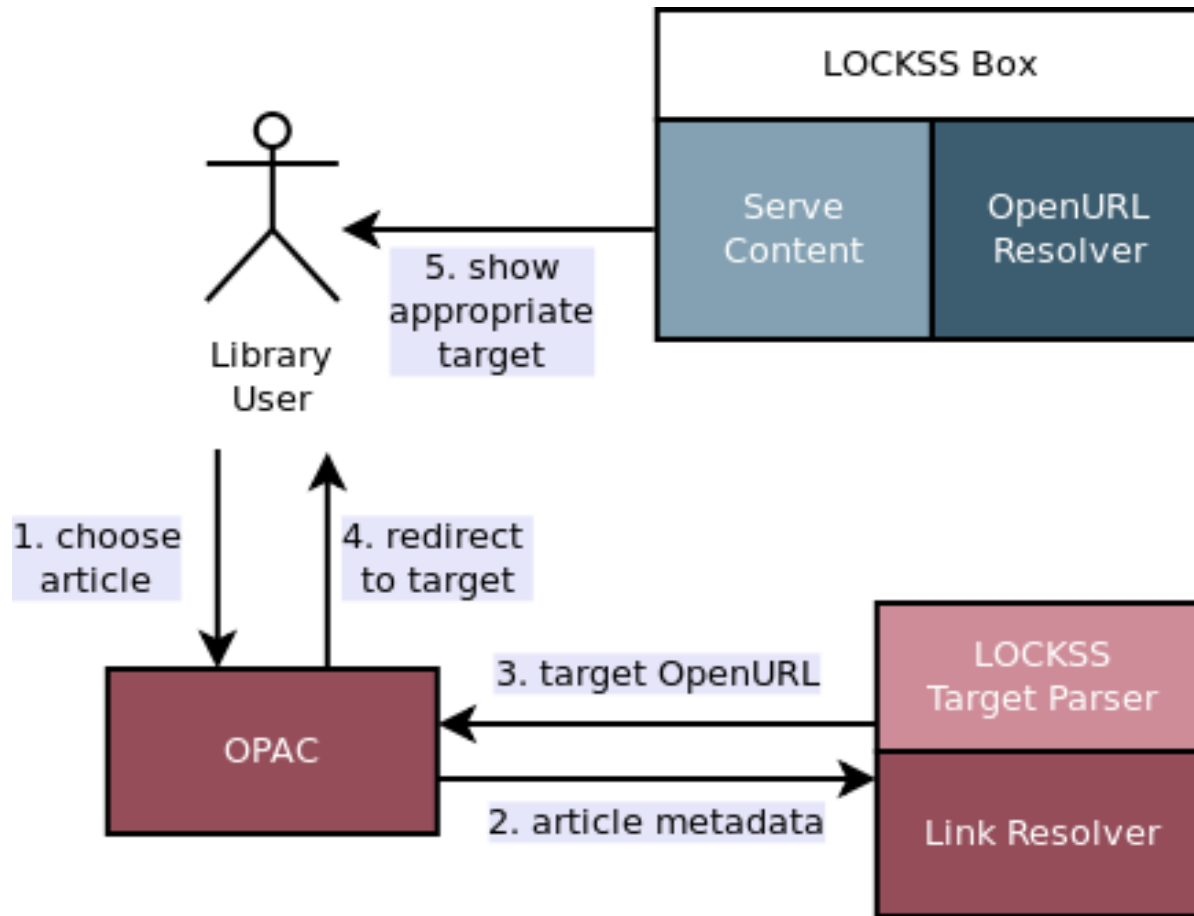
Access to Content via Link Resolvers

The process of providing access

- (1) User chooses an article to view
- (2) OPAC consults Link Resolver with bibliographic data to identify a particular target (title contents, volume listing, individual article)
- (3) The LOCKSS-specific target parser takes the the bibliographic metadata and constructs an OpenURL for the target
- (4) User is redirected to the target, which is served by the LOCKSS box

Access to Content via Link Resolvers

Library Catalogue Search



Access to Content via Link Resolvers

LOCKSS ServeContent

ServeContent is a service in the LOCKSS interface.

Given a bibliographic query using OpenURL parameters, it will serve an appropriate copy of the desired content, either locally preserved or on the publisher's website.

OpenURL 0.1, OpenURL 1.0, and DOI queries are accepted.

Access to Content via Link Resolvers

LOCKSS MetadataManager

Metadata Manager (disabled by default) will build a database of article-level bibliographic metadata from preserved content.

In the future this will support article-level resolution through ServeContent.

Access to Content via Link Resolvers

Integration of link resolvers and KBART data

- Link Resolver integration is proceeding (with SFX, 360 Link)
- We are seeking KBART Endorsement
- We are in the KBART Registry

Future plans include:

- Integration with other Link Resolvers
- Further services and components

Access to Content via Link Resolvers

Demonstration

<http://dlib-lockssdev2.ucs.ed.ac.uk:8082>

Exporting KBART data

OpenURL Query to simulate OPAC request

ServeContent – direct manipulation of URL

- DOI
- URL
- ISSN
- ISSN and Volume (and Issue)

Access to Content via Link Resolvers

Questions and Answers

What are people's link resolver requirements outside of SFX and 360 Link?