Recent Developments in OpenURL (SFX) Linking at the University of Chicago

Andrea Twiss-Brooks
atbrooks@uchicago.edu
225th ACS National Meeting
March 23, 2003
Overview

- What is OpenURL?
- What is SFX?
- SFX at the University of Chicago
  - Basic services
  - Recent enhancements
  - Behind the scenes peek
- “Future” directions for OpenURL framework?
What is OpenURL?

“The proposed OpenURL standard is a syntax to create web-transportable packages of metadata and/or identifiers about an information object.”

- National Information Standards Organization Standards Committee AX

http://www.niso.org/committees/committee_ax.html
What is OpenURL?

A framework that facilitates the provision of additional, appropriate services (links) from one resource to another.

Demonstrations of OpenURL implementations:
http://library.caltech.edu/openurl/Demos.htm
What is OpenURL?

“By disconnecting the provision of metadata from the provision of linking services, users can indicate a preferred service component that will provide links irrespective of the resource they are navigating. ... The OpenURL is the enabling mechanism for open linking from resources.”

**D-Lib Magazine**, March 2001, Volume 7 Number 3

“Open Linking in the Scholarly Information Environment Using the OpenURL Framework.” H. Van de Sompel and O. Beit-Arie

[http://www.dlib.org/dlib/march01/vandesompel/03vandesompel.html](http://www.dlib.org/dlib/march01/vandesompel/03vandesompel.html)
What is SFX?

“The SFX server from Ex Libris is an ISC [institutional service component] that can read an OpenURL as input and take action upon it.”

http://www.sfxit.com/open/index.html
What is SFX?

Source
Where are you starting out?

Metadata
What is the reference?

Services
Who is asking and what are the available options for this user?

Target
Where should the user be directed for the service?
What is SFX?

Options:
- Full text A
- Full text B
- Search catalog
- Search author
- Search JCR
- Request document

Source

SFX server

Publisher A
Aggregator B
UC IPAC
Web of Science
Journal Citation Reports
Local ILL form

metadata
SFX at the University of Chicago

Basic services

- Linking to full-text
- Linking to library catalog
Internet use among physicians, nurses, and their patients
Jadad AR, Sigouin C, Cocking L, Whelan T, Browman G
JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION
286 (12): 1451-1452 SEP 26 2001

Document type: Letter  Language: English  Cited References: 5  Times Cited: 1

Addresses:
Jadad AR, McMaster Univ, Dept Clin Epidemiol & Biostat, Hamilton, ON, Canada
McMaster Univ, Dept Clin Epidemiol & Biostat, Hamilton, ON, Canada
Univ Toronto, Program eHlth Innovat Univ Ehlth Network, Toronto, ON, Canada
Hamilton Reg Canc Ctr, Support Canc Care Res Unit, Hamilton, ON L8V 1C3, Canada
The Library provides services for the following via SFX:

Source: JAMA THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION
[0098-7434]
yr: 2001 vol: 286 iss: 12 pg: 1451

- Full text available from American Medical Association
  year: 2001 volume: 286 issue: 12 start page: 1451

- Full text available from Journals@Ovid
  year: 2001 volume: 286 issue: 12 start page: 1451

- Full text available from ProQuest 5000
  year: 2001 volume: 286 issue: 12 start page: 1451

- Search holdings in The University of Chicago Catalog

- Find abstract in PubMed from NCBI? - Articles not indexed by PubMed will return "No Item"
  year: 2001 volume: 286 issue: 12 start page: 1451

- Get table of contents from EBSCO Health Source Nursing/Academic Edition
  year: 2001 volume: 286 issue: 12

- Get publication information from ulrichsweb.com

Help
Please contact us if you have any questions, comments, or to report a problem.

Learn more about SFX.
Target
SFX at the University of Chicago

More recent developments

- Marketing?!
- More sources and targets added
- A-Z list of journals
- Interlibrary loan request form
- OpenURL generator
- Test of LitLink interoperability with SFX
Electronic Resources | What is SFX?

Table of Contents

1. What is SFX?
2. How do I access SFX?
3. How does SFX Work?
4. Databases that are SFX-enabled
5. Frequently Asked Questions about SFX
6. Learn more about SFX
7. Send questions or comments about SFX to Library staff at sfx@lib.uchicago.edu

What is SFX?

SFX is a service offered by the Library that provides customized links between diverse electronic products such as between journal citation indexes (like MLA Bibliography) and the full text of an article from a publishers website.

SFX enabled resources will display an SFX button.

When you see SFX in an electronic resource, simply click on the button to see a menu of options for the citation of interest. These options include:
Electronic Resources Update

A Physical Sciences Newsletter

The Science Libraries Division, University of Chicago

Current Issue  (Click Here)

Volume 3, Winter Quarter 2003

~ The Joy of SFX
~ Evolution of Journal Publishing
~ Science and Humor Exhibit
~ Which Database Should You Use?
~ Photos and Images on the Web
Severity of Irukandji syndrome and nematocyst identification from skin scrapings.

Huynh TT, Seymour J, Pereira P, Mulcahy R, Cullen P, Carrette T, Little M.

Emergency Department, Cairns Base Hospital, Cairns, Queensland 4870, Australia.

OBJECTIVES: (1) To identify the causative jellyfish species by examining skin scrapings in patients presenting to Cairns Base Hospital with marine stings, and (2) to describe clinical outcomes of those with Irukandji syndrome and those in whom nematocysts were identified from skin scrapings. DESIGN AND SETTING: (1) A retrospective case series of 128 patients, identified from Cairns Base Hospital emergency department records with discharge diagnoses of marine stings between 1 July 2001 and 30 June 2002. (2) A prospective study of skin scrapings from 50 patients presenting with marine stings from the same period. MAIN OUTCOME MEASURES: Number of patients with Irukandji syndrome, their opioid requirements and cardiac findings (where available), identification of causative species from nematocysts isolated from skin scrapings. RESULTS: 116 patients retrospectively identified with marine stings had Irukandji syndrome. Of 50 patients who had skin scrapings, 39 had nematocysts consistent with Carukia barnesi. Symptoms

The University of Chicago LIBRARY
PHOTO TRADE NEWS [ISSN: 0031-8590] Full text via Factiva
Availability: from 1994
Availability: Most recent 2 months not available online
More information via SFX

PHOTO CHEMISTRY AND PHOTOBIOLOGY [ISSN: 0031-8655] Full text via BioOne
Availability: from 2000 volume 71 issue 1
More information via SFX

PHOTODERMATOLOGY PHOTOIMMUNOLOGY AND PHOTOMEDICINE [ISSN: 0905-4383] Full text via Synergy
Availability: from 2000 volume 16 issue 1 to 2002 volume 18 issue 6
More information via SFX

PHOTONIC NETWORK COMMUNICATIONS [ISSN: 1387-974X] Full text via Kluwer Academic
Availability: from 1999 volume 1 issue 1
More information via SFX

PHOTONICS SPECTRA [ISSN: 0731-1230] Full text via Factiva
Availability: from 1994 to 1996
More information via SFX

PHOTOSYNTHESIS RESEARCH AN INTERNATIONAL JOURNAL [ISSN: 0166-8395] Full text via Kluwer Academic
Availability: from 1997 volume 51 issue 1

The University of Chicago Library
Interlibrary loan request generation

Document Delivery Service

Fields displayed in bold type are required fields.

Date after which this item is no longer useful (yyyymmdd):

Journal: MEDICAL JOURNAL OF AUSTRALIA

Journal abbrev. title: Med J Aust

ISSN: 0025-729X

Vol: 178

No: 1

Date: 2003

Pages: 38

Article title (or subject): Severity of irukencji syndrome and nemato cyst identification

Author: Huynh, TT

Source of Reference (or VERIFIED): Entrez:PubMed (Via SFX)

If the Library owns this item, please explain this request (max. 250 chars):

Personal Information: Please supply your name, department, Library ID and one means of contacting you.
SFX at the University of Chicago

Administration of SFX services
<table>
<thead>
<tr>
<th>#</th>
<th>Source</th>
<th>Source ID</th>
<th>Modified</th>
<th>Active</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ALEPH_LOCAL_CATALOGUE</td>
<td>ALEPH</td>
<td>2002/01/08</td>
<td>Y</td>
<td>C</td>
</tr>
<tr>
<td>2</td>
<td>ARXIV</td>
<td>ARXIV</td>
<td>2001/06/11</td>
<td>Y</td>
<td>C</td>
</tr>
<tr>
<td>3</td>
<td>BIOMED_CENTRAL</td>
<td>BIOMED</td>
<td>2002/06/06</td>
<td>Y</td>
<td>C</td>
</tr>
<tr>
<td>4</td>
<td>BOWKER_ULRICH5S/Web</td>
<td>ULRICH5S</td>
<td>2001/12/12</td>
<td>Y</td>
<td>C</td>
</tr>
<tr>
<td>5</td>
<td>CAMBRIDGE_SCIENTIFIC_ABSTRACTS</td>
<td>CSA</td>
<td>2001/12/12</td>
<td>Y</td>
<td>C</td>
</tr>
<tr>
<td>6</td>
<td>CHEMICAL_ABSTRACTS_SERVICE</td>
<td>CAS</td>
<td>2001/06/15</td>
<td>Y</td>
<td>C</td>
</tr>
<tr>
<td>7</td>
<td>DEFAULT</td>
<td>DEFAULT</td>
<td>2001/06/15</td>
<td>Y</td>
<td>C</td>
</tr>
<tr>
<td>8</td>
<td>EBSCO</td>
<td>EBSCO</td>
<td>2001/06/15</td>
<td>Y</td>
<td>C</td>
</tr>
<tr>
<td>9</td>
<td>GALEGROUP_INFOTRAC</td>
<td>GALE</td>
<td>2002/05/30</td>
<td>Y</td>
<td>C</td>
</tr>
<tr>
<td>10</td>
<td>INSTITUTE_OF_PHYSICS_AXIOM</td>
<td>AXIOM</td>
<td>2002/04/16</td>
<td>Y</td>
<td>C</td>
</tr>
<tr>
<td>11</td>
<td>INSTITUTE_OF_PHYSICS_JOURNALS</td>
<td>IDP</td>
<td>2001/06/15</td>
<td>Y</td>
<td>C</td>
</tr>
<tr>
<td>12</td>
<td>METALIB</td>
<td>METALIB</td>
<td>2001/06/15</td>
<td>Y</td>
<td>C</td>
</tr>
</tbody>
</table>
**List of Source Services for OVID**

---

<table>
<thead>
<tr>
<th>#</th>
<th>Service</th>
<th>Threshold</th>
<th>Modified</th>
<th>Active</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>getAbstract</td>
<td></td>
<td>2000/12/04</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>2</td>
<td>getAuthor</td>
<td></td>
<td>2001/05/16</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>3</td>
<td>getAuthorEmail</td>
<td></td>
<td>2001/05/16</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>4</td>
<td>getBookReview</td>
<td></td>
<td>2000/12/04</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>5</td>
<td>getCitedAuthor</td>
<td></td>
<td>2000/12/04</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>6</td>
<td>getCitedBook</td>
<td></td>
<td>2000/12/04</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>7</td>
<td>getCitedJournal</td>
<td></td>
<td>2000/12/04</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>8</td>
<td>getCitedRecord</td>
<td></td>
<td>2000/12/04</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>9</td>
<td>getCitedReference</td>
<td></td>
<td>2000/12/04</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>10</td>
<td>getDocumentDelivery</td>
<td></td>
<td>2000/12/04</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>11</td>
<td>getDOI</td>
<td></td>
<td>2001/09/11</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>12</td>
<td>getFullText</td>
<td></td>
<td>2000/12/04</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>13</td>
<td>getHolding</td>
<td></td>
<td>2000/12/04</td>
<td></td>
<td>C</td>
</tr>
</tbody>
</table>
### List of Targets

<table>
<thead>
<tr>
<th>#</th>
<th>Target</th>
<th>Threshold</th>
<th>Modified</th>
<th>Active</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ACADEMICPRESS_IDEAL</td>
<td></td>
<td>2001/05/18</td>
<td>Y</td>
<td>C</td>
</tr>
<tr>
<td>2</td>
<td>ADD_ALL</td>
<td></td>
<td>2001/06/29</td>
<td>N</td>
<td>C</td>
</tr>
<tr>
<td>3</td>
<td>ALLENPRESS</td>
<td></td>
<td>2001/05/23</td>
<td>Y</td>
<td>C</td>
</tr>
<tr>
<td>4</td>
<td>AMAZON</td>
<td></td>
<td>2001/06/29</td>
<td>N</td>
<td>C</td>
</tr>
<tr>
<td>5</td>
<td>AMERICAN_CHEMICAL_SOCIETY</td>
<td></td>
<td>2001/05/18</td>
<td>Y</td>
<td>C</td>
</tr>
<tr>
<td>6</td>
<td>AMERICAN_INSTITUTE_GF_PHYSICS_CJPS</td>
<td></td>
<td>2001/05/21</td>
<td>Y</td>
<td>C</td>
</tr>
<tr>
<td>7</td>
<td>AMERICAN_MATHEMATICAL_SOCIETY</td>
<td></td>
<td>2001/05/18</td>
<td>Y</td>
<td>C</td>
</tr>
<tr>
<td>8</td>
<td>AMERICAN_MEDICAL_ASSOCIATION</td>
<td></td>
<td>2001/05/18</td>
<td>Y</td>
<td>C</td>
</tr>
<tr>
<td>9</td>
<td>AMERICAN_PHYSICAL_SOCIETY</td>
<td></td>
<td>2001/05/18</td>
<td>Y</td>
<td>C</td>
</tr>
<tr>
<td>10</td>
<td>AMERICAN_PHYSICAL_SOCIETY_PROLA</td>
<td></td>
<td>2001/05/24</td>
<td>Y</td>
<td>C</td>
</tr>
<tr>
<td>11</td>
<td>ANNALS_OF_INTERNAL_MEDICINE</td>
<td></td>
<td>2001/04/30</td>
<td>N</td>
<td>C</td>
</tr>
<tr>
<td>12</td>
<td>APA_PSYARTICLES</td>
<td></td>
<td>2001/12/12</td>
<td>N</td>
<td>C</td>
</tr>
</tbody>
</table>
List of Portfolios for JOURNALS_OVID

<table>
<thead>
<tr>
<th>#</th>
<th>Target</th>
<th>Service Object</th>
<th>Threshold</th>
<th>Mod.</th>
<th>Act. Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>JOURNALS_OVID</td>
<td>getFullText</td>
<td>$obj -&gt; parsedDate(&quot;=&quot;), (1995, undefunct)</td>
<td>2001/08/15</td>
<td>Y</td>
</tr>
<tr>
<td>2</td>
<td>JOURNALS_OVID</td>
<td>getFullText</td>
<td>$obj -&gt; parsedDate(&quot;=&quot;), (1995, undefunct)</td>
<td>2001/08/15</td>
<td>Y</td>
</tr>
<tr>
<td>3</td>
<td>JOURNALS_OVID</td>
<td>getFullText</td>
<td>$obj -&gt; parsedDate(&quot;=&quot;), (1995, undefunct)</td>
<td>2001/08/15</td>
<td>Y</td>
</tr>
<tr>
<td>4</td>
<td>JOURNALS_OVID</td>
<td>getFullText</td>
<td>$obj -&gt; parsedDate(&quot;=&quot;), (1995, undefunct)</td>
<td>2002/01/02</td>
<td>Y</td>
</tr>
<tr>
<td>5</td>
<td>JOURNALS_OVID</td>
<td>getFullText</td>
<td>$obj -&gt; parsedDate(&quot;=&quot;), (1995, undefunct)</td>
<td>2001/08/15</td>
<td>Y</td>
</tr>
<tr>
<td>6</td>
<td>JOURNALS_OVID</td>
<td>getFullText</td>
<td>$obj -&gt; parsedDate(&quot;=&quot;), (1995, undefunct)</td>
<td>2001/08/15</td>
<td>Y</td>
</tr>
<tr>
<td>7</td>
<td>JOURNALS_OVID</td>
<td>getFullText</td>
<td>$obj -&gt; parsedDate(&quot;=&quot;), (1995, undefunct)</td>
<td>2002/01/02</td>
<td>Y</td>
</tr>
<tr>
<td>8</td>
<td>JOURNALS_OVID</td>
<td>getFullText</td>
<td>$obj -&gt; parsedDate(&quot;=&quot;), (1995, undefunct)</td>
<td>2001/08/15</td>
<td>Y</td>
</tr>
<tr>
<td>9</td>
<td>JOURNALS_OVID</td>
<td>getFullText</td>
<td>$obj -&gt; parsedDate(&quot;=&quot;), (1995, undefunct)</td>
<td>2001/08/15</td>
<td>Y</td>
</tr>
<tr>
<td>10</td>
<td>JOURNALS_OVID</td>
<td>getFullText</td>
<td>$obj -&gt; parsedDate(&quot;=&quot;), (1995, undefunct)</td>
<td>2002/01/02</td>
<td>Y</td>
</tr>
<tr>
<td>11</td>
<td>JOURNALS_OVID</td>
<td>getFullText</td>
<td>$obj -&gt; parsedDate(&quot;=&quot;), (1995, undefunct)</td>
<td>2001/08/15</td>
<td>Y</td>
</tr>
<tr>
<td>12</td>
<td>JOURNALS_OVID</td>
<td>getFullText</td>
<td>$obj -&gt; parsedDate(&quot;=&quot;), (1995, undefunct)</td>
<td>2001/08/15</td>
<td>Y</td>
</tr>
</tbody>
</table>
SFX Requests in 2001 and 2002

Number of times SFX selected

Top Ten SFX Source Uses Jan-Feb 2003

Number of Requests

- A-Z JOURNAL LIST
- OVID
- FIRSTSEARCH
- WOS
- EBSCO
- DEFAULT
- SWETS
- RLG
- PUBMED
- AMS
## Top 10 Full Text Targets by Publisher

<table>
<thead>
<tr>
<th>Host</th>
<th>Number of requests</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELSEVIER SCIENCE DIRECT</td>
<td>8885</td>
</tr>
<tr>
<td>SWETSNET NAVIGATOR</td>
<td>7221</td>
</tr>
<tr>
<td>PROQUEST 5000</td>
<td>6978</td>
</tr>
<tr>
<td>DOW JONES INTERACTIVE</td>
<td>2924</td>
</tr>
<tr>
<td>JOURNALS OVID</td>
<td>2843</td>
</tr>
<tr>
<td>SYNERGY</td>
<td>2474</td>
</tr>
<tr>
<td>EBSCO ACADEMIC SEARCH PREMIER</td>
<td>2383</td>
</tr>
<tr>
<td>PROQUEST ABI INFORM GLOBAL</td>
<td>2256</td>
</tr>
<tr>
<td>WILEY INTERSCIENCE</td>
<td>2059</td>
</tr>
<tr>
<td>EBSCO BUSINESS SOURCE PREMIER</td>
<td>1562</td>
</tr>
<tr>
<td>HIGHWIRE PRESS FREE</td>
<td>1519</td>
</tr>
<tr>
<td>KLUWER ACADEMIC</td>
<td>1475</td>
</tr>
<tr>
<td>NATURE</td>
<td>1202</td>
</tr>
<tr>
<td>SPRINGER LINK JOURNALS</td>
<td>1171</td>
</tr>
<tr>
<td>JSTOR COMPLETE</td>
<td>1114</td>
</tr>
<tr>
<td>LEXIS NEXIS ACADEMIC UNIVERSE FT</td>
<td>1074</td>
</tr>
<tr>
<td>AMERICAN CHEMICAL SOCIETY</td>
<td>948</td>
</tr>
</tbody>
</table>
The Future of OpenURL?

- Integration in course management software (OpenURL resolver)?
- Extended service links and non-bibliographic metadata
The Future of OpenURL?

Integration in course management software

Abella, Isaac D.

Physics 13200B
General Physics IIB - Electricity and Magnetism

http://ipac.lib.uchicago.edu/ipac20/ipac.jsp?profile=ucres&npp=300&uri=link=3100002@!12031@!3100004@!3100038&term=Physics+13200B

Could the OpenURL generator tool be used to create better persistent links to documents?
The “Future” of OpenURL?

- From a stock ticker symbol found in a record to on-line stock information
- From a CAS RN to a chemical inventory or supplier system
- From a (standard) molecular formula to an NMR database
The “Future” of OpenURL?

- From a journal title to impact factor information in ISI's Journal Citation Reports

- Export of reference into EndNote or other bibliographic management software