

Open Source ILS Add-ons

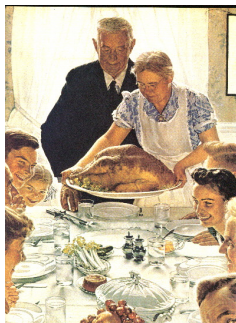
Open Source ILS Add-ons



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<http://galecia.com>
Infopeople Webinar
10/22/09

Traditional ILS

- manages acquisitions, cataloging, circulation, and reporting
- provides a discovery interface (commonly known as the Online Public Access Catalog or "OPAC") which enables library users to search for resources



User Expectations



- expect to see resources available beyond traditional library holdings. Want books, CDs, DVDs, plus
 - journals
 - newspapers
 - magazines
 - other libraries' holdings
- want search options beyond traditional author/title/subject searching or generic keyword searches.
- when they find something, they want to easily obtain it

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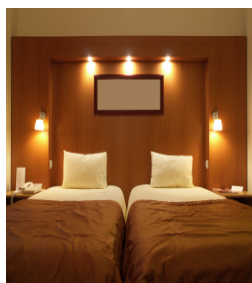
Open Source ILS Add-ons

The ILS needs to become a platform that supports appropriate interfaces for discovery and metasearch applications living on top of it instead of trying to do everything on its own.



The Decoupling of the ILS

The public interfaces provided by many ILS's cannot by themselves meet the demands of users in a world where the availability and sophistication of digital resources and web applications has increased significantly.



Current Options for Accessing ILS Data Are Limited

1. Application Programming Interface (API) provided by vendor
2. Inconsistently implemented library-centric protocols
 - Z39.50
 - SIP/SIP2
 - NCIP/NCIP2
3. Screen-scraping
4. Direct SQL queries against the ILS's database tables

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DLF ILS Discovery API

An API For Effective Interoperation Between
Integrated Library Systems And External Discovery
Applications

(DLF ILS Discovery Interface Task Group
Technical Recommendation)

Available from:
http://www.diglib.org/architectures/flsdi/DLF_ILS_Discovery_1.1.pdf

Key Web Technologies: OAI, SOA, and Web Services



- OAI: Open Archives Initiative
 - develops and promotes interoperability standards
 - OAI-PMH: protocol for exposing data for harvesting
- SOA: Service Oriented Architecture
 - modular programs that perform a single task
- Web Services
 - applications talking directly to applications over the Web
 - use standards such as XML, SOAP, and/or WSDL

Metasearch

- Definition: a technology that sends a user's query off to multiple databases and catalogs and then collects and presents the results in a single interface
- Issues:
 - user interface seems sluggish because work happens after user initiates query
 - connections to the databases and catalogs can break, leading to inconsistent and incomplete result sets.
 - sometimes arbitrary decisions are made about how to aggregate and order search results.

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Open Source ILS Add-ons

Libraries are beginning to develop their own tools

for searching multiple data repositories

with a single search box

and to present understandable search results to their users



SOPAC2

- Developed by John Blyberg. Currently supported by the John Blyberg and Darien Library
- Goal: Enhances ILS by adding social functionalities including: tags, reviews, ratings, RSS.
- Using it:
 - Darien Library
 - Ann Arbor District Library
 - Palos Verdes (CA)
- Running on Innovative and Koha
- More info: <http://www.thesocialopac.net>



SOPAC2 Modules

- Support for shared/no email address
- RSS everything
- Wish lists
- Twitter broadcasting
- Saved searches as a separate module
- Summer Reading module
- Checkout History
- Recommendation engine
- Search statistics
- SMS notifications / support
- "Recommend to a friend"
- Auto-renew items

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Ann Arbor District Library (SOPAC2)

The screenshot shows a search results page for 'sports' on the Ann Arbor District Library website. The search bar at the top left contains the text 'sports'. Below the search bar, there are filters for 'limit to items available at: Any Location' and 'Advanced Search'. The results are sorted by 'Relevance'. Two book entries are visible: 'Ultimate sports : short stories by outstanding writers for young adults' and 'The heart of a champion : celebrating the spirit and character of great American sports heroes'. Each entry includes a book cover, title, author, and publication information. A sidebar on the right contains various filters such as 'By Media', 'By Author', 'By Date', 'By Age', 'By Series', and 'By Language'.

Darien Library (SOPAC2)

The screenshot shows an 'Item Record' page for 'Harry Potter and the Prisoner of Azkaban' on the Darien Library website. The page includes a star rating of 4 stars (4 votes), a 'Record Tags' section with '#3 fantasy potter harry', and a 'Reviews' section with two reviews. The main content area contains detailed information about the book, including the author (Rowling, J. K.), publication info (New York: Scholastic Inc., [2001], c1999), year published (1999), description (435 p., ill., 20 cm), call number (Kids Fic ROWLING), ISBN standard # (075075622 [BWI] bdp.), language (eng), material format (Book), and notes (Sequel to: Harry Potter and the Chamber of Secrets; Year 3--Spine; Arthur A. Levine paperback edition 2001; During his third year at Hogwarts School of Witchcraft and Wizardry, Harry Potter must confront the devious and dangerous wizard responsible for his parents' deaths).

Allowing Customers to Add Reviews Can Be Dangerous

"This book was very thrilling and the ending took me by surprise when I've learned that Sirius Black was actually innocent and Ron Weasley's rat, Scabbers, was actually a servant of He-Who-Must-Not-Be-Name.

Voldmort dies in the 7th book."

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Open Source ILS Add-ons

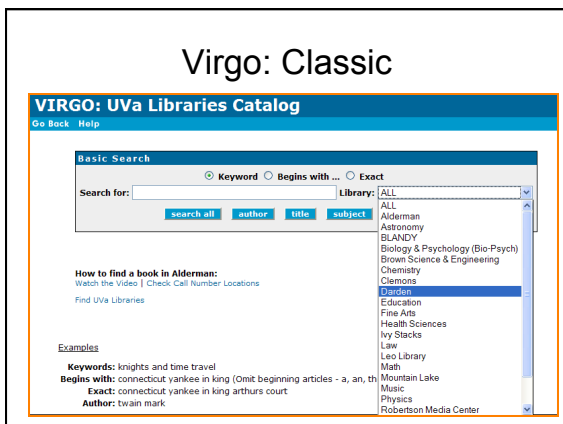
Blacklight

- Developed by University of Virginia Library
- Goal: can index, search, and provide faceted browsing for MARC records and EAD XML files, and support is planned for Dublin Core and MODS as well
- Using it:
 - University of Virginia
- Running on Unicorn
- Other libraries involved in development:
 - Stanford
- More info: <http://www2.lib.virginia.edu/press/virgobeta/>

VirgoBETA (Blacklight) Features

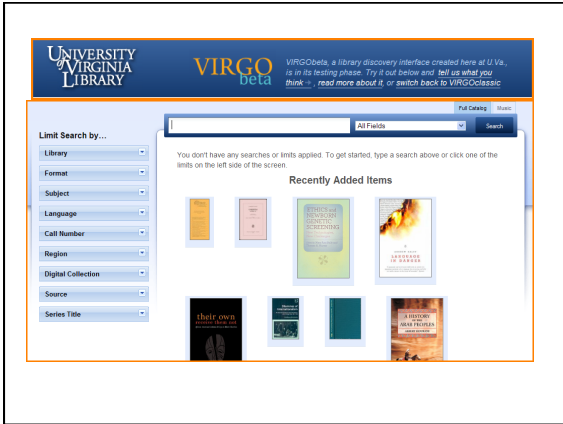
- search items the Library has catalogued, including books, journal titles, DVDs, CDs, sheet music, websites, and microfilm, and also, in the same search for the first time, digital collections of images and texts;
- filter your results by format, dates, and keywords;
- sort your results by relevancy ranking, date received, author, title or call number;
- save and share your searches and results in Delicious, and, in a future release of VIRGObeta, RefWorks and Zotero;
- generate an RSS feed for your search, so you can be notified when the Library acquires materials in your subject area.

Virgo: Classic



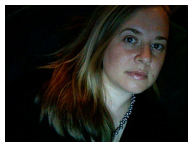
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Per Bess Sadler...



The idea is that libraries, which know their local needs, should control the technology that patrons use to gain access to their collections. That's a change from the one-size-is-good-enough-for-everybody, commercially managed model that has prevailed in the industry.

(Source: Library Hi Tech article by Bess Sadler, chief architect of the online library environment at the University of Virginia)

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Open Source ILS Add-ons

Also from U-V: Collex

- Developed by Dr. Bethany Nowvskie
- Goal: collect, tag, analyze, and annotate trusted objects (digital texts and images vetted for scholarly integrity); produce interlinked online exhibits



Nines (Collex)



Aggregates
412,747 peer-
reviewed digital
objects from 63
federated sites

More info:
<http://nines.org>

Scriblio

- Developed by Casey Bisson.
- Currently supported by Casey Bisson and Plymouth State University
- Goal: merge the concept of a "blog entry" and "catalog record" using WordPress
- Also involved in development: Cook Memorial Library
- Running on Innovative (at least)
- Libraries currently using it
 - Lamson Library, Plymouth State University
 - Cook Memorial Library (NH) and others
- More info at <http://about.scriblio.net>



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Open Source ILS Add-ons

VuFind Features

- A single simple search box
- Ability to refine search by subject, title, topic, language, format, and more
- Ability to either search the UIUC library catalog or all I-Share libraries at once, including item status and location information
- Ability to request UIUC and I-Share items
- Patron-created usernames and passwords
- Links to patron's library account with the ability to save, organize and retrieve records from any computer (using log-in information the patron creates).
- Zotero compliant for saving and tagging records and uses a feature like Delicious to bookmark and tag records.
- One-click link to reviews, including author reviews (through Wikipedia)
- Social networking tools, such as leaving comments and tagging
- Previews in Google Book Search

I-Share (WebVoyager)

New Search | I-Share Libraries | Titles | Renew Books/My Account | Edit Search | New in I-Share | Quit | Help

New Searching: I-Share
You Searched: Any Words = pluto
Search Results: Displaying 1 through 20 of 1808 entries.

Search for: pluto Search by: Any Word Anywhere Quick Limit: None
20 records per page Submit Reset

Sort by: Relevance Change Limits

#	Relevance	Full Title	Date	Format	Cover
1	★★★★	Saturn and beyond / Isaac Asimov ; diagrs. by Giulio Maestro. [1979] Book Multiple holdings. Click title for details.	1979	Book	
2	★★★★	Handwood tales: The story of Pluto and Proserpina. [sound recording] Library Location: Illinois State University Status:	1970	Spoken Word Rec.	
3	★★★★	Pluto / Gregory L. Vogt. Multiple holdings. Click title for details.	1994	Book	
4	★★★★	Pluto, fast. flvby. Multiple holdings. Click title for details.	1993	Book	

I-Share (VuFind)

pluto All Fields All I-Share Libraries Find

Showing 1 - 20 of 6143 Results for pluto Sort: Relevance

Pluto
by Reg, Susan Published c2004
University of Illinois at Urbana-Champaign
Call Number: S 523-482 R472p
Location: Education & Collection
Available Book

Pluto
by O'Connell, Kim A. Published c2005
Illinois State University
Call Number: S23-481 OCO
Location: Zimmerman Library, Metcalf School
Nonfiction Available Book

The complete Pluto
Published c2006
School of the Art Institute
Call Number: DVD 2107
Location: Video DVD Collection (Item does not exist)

Narrow Your Search

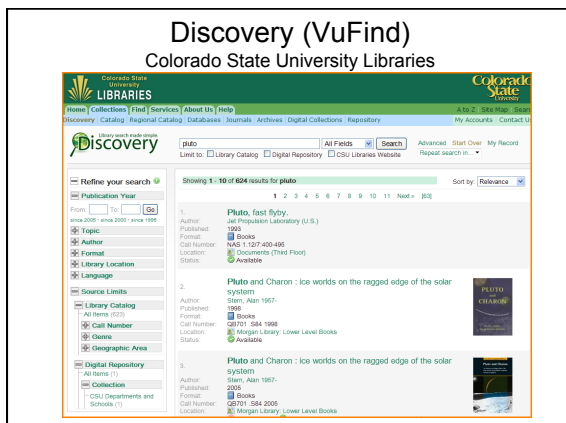
Library
University of Illinois at Urbana-Champaign (515)
Northern Illinois University (517)
University of Illinois at Chicago (544)
Illinois State University (530)
Southern Illinois University Carbondale (458)
more...

Format
Book (5545)
Electronic (682)
Microform (96)
Film / Video (91)
Music Recording (38)
more...

Author
Cooley, John K. (57)
Kidon, Michael (49)
Griffin, Michael (42)

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Open Source ILS Add-ons



XC – eXtensible Catalog

- Hosted at the University of Rochester, supported by the Andrew W. Mellon Foundation
- Goal: provide easy access to all resources (both digital and physical collections) across a variety of databases, metadata schemas and standards, and enable library content to be revealed through search engines and other services that libraries may be using (e.g. CMS)
- Has connectors for Innovative, Voyager, Aleph, Koha, Evergreen, Scriblio
- Other organizations involved in development:
 - Notre Dame, Oregon State, University of Buffalo
 - Georgia PINES, LibLime, Casey Bisson,
 - Rochester Institute of Technology, CARLI
- More info: <http://www.extensiblecatalog.org/>

XC Modules

Released

- **OAI Toolkit** – synchronization of digital repositories (DSpace, ContentDM)
- **NCIP Toolkit** – ILS integration with bibliographic, holding, item and authority data. Supports live access to circulation status, authentication mechanisms, and native ILS circulation requests

In Development

- **Metadata Services Toolkit** - normalization, transformation, authority control, FRBRization, aggregation, user-generated metadata distribution, and terminology services.
- **Drupal Toolkit** - user interface embedded into Drupal CMS
- **LMS Toolkit** - user interface embedded in Blackboard

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Open Source ILS Add-ons

LibraryFind

- Developed by: Oregon State University Libraries with funding from State Library
- Goal: contribute to the support of scholarly workflow, remove barriers between the library and web information, and establish the digital library as platform.
- Guiding Principles: two clicks—one to find, one to get; a goal of getting results in four seconds; and known and adjustable results ranking
- Development Partners: Ross Singer (Georgia Tech), Ed Summers (LC)
- Two current releases: 0.8.5.2 and 0.90
- More info: <http://libraryfind.org>

LibraryFind Features

- 2-click user workflow (one click to find, one click to get)
- facets for browsing / limiting
- ability to sort by relevance or date
- ability to harvest OAI and MARC data repositories
- integrated OpenURL resolver (with support for OpenURL tools that return XML)
- Web-based administration
- 3-tiered caching system to improve search response time
- customizable user interface
- ability to locally index collections
- "Look-ahead" OpenURL resolution
- smart ILL link display
- dynamic, on-the-fly facet creation
- extensible, customizable XML backend

The screenshot shows the OSU LibraryFind Demo interface. At the top, it says "OSU LibraryFind Demo" with the URL <http://search2.library.oregonstate.edu>. Below this is a navigation bar with "OSU Libraries" and "Library Home". A search bar contains the text "Saturn" and shows "Search results for 'Saturn'". The results are displayed in a list format with columns for material type, subjects, authors, and databases. The first result is a book titled "Saturn" by Simon, Seymour, published in 1910. The second result is a book titled "Saturn" by Richard, Adelle, published in 1966. The third result is a book titled "Saturn" by Margaret, Amy, published in 2002. The interface includes a sidebar with "Refine Results" and "Material Types" (Books, Images), and a "Sort by: Relevance" dropdown.

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Open Source ILS Add-ons

Paspar2

- Developed by: Index Data
- Goal: high-performance, user interface-independent, data model-independent metasearching middleware web service featuring merging, relevance ranking, record sorting, and faceted results.
- Released under GPL license and commercially released as part of MasterKey platform
- Features:
 - performs record merging, relevance-ranking and sorting by arbitrary data content, and facet analysis for browsing purposes
 - works with MARC, DublinCore, or any other XML-structured data
 - can be used against servers supporting Z39.50 and SRU/SRW protocols
 - user interface independent (uses web-service API)
- More info: <http://www.indexdata.com/pazpar2>

dbWiz → PKP Software

- Developed by Simon Frazer University as part of a larger suite of software tools called reSearcher Goal: federated search engine that allows users to select their own starting point for research
- ReSearcher suite has morphed into PKP Software suite:
 - Open Journal Systems
 - Open Conference Systems
 - PKP Open Archives Harvester
- Public Knowledge Project partners: Simon Fraser, Univ. of British Columbia, and Stanford
- Information available from: <http://pkp.sfu.ca/>

Open Source software belongs in libraries!



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Open Source ILS Add-ons

Additional References

- Code4lib
<http://code4lib.org/>
- Oss4lib
<http://oss4lib.org/>
- Library Best Practices Wiki: OS Software
http://www.libsuccess.org/index.php?title=Open_Source_Software
- Parry, Marc, "After Losing Users in Catalogs, Libraries Find Better Search Software"
<http://chronicle.com/article/After-Losing-Users-in/48588/>
- My Delicious tags on this topic
http://delicious.com/lbayre/ils_addon
