

Working with web services and sharing ideas



<http://www.slideshare.net/halwete>

OPAC

OPAC

LIBRIS

OPAC

ABI/INFORM

LIBRIS

OPAC

ABI/INFORM

SFX

LIBRIS

EBSCO Host

Google

OPAC

ABI/INFORM

SFX

LIBRIS

EBSCO Host

MetaLib

Google

OPAC

ABI/INFORM

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EBSCO Host

MetaLib

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DiVA

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EBSCO Host

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MetaLib
X-server

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MetaLib
X-server

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SFX
API

LIBRIS
Xsearch

EBSCO Host

WorldCat

Google

MetaLib

X-server

OPAC

ERM

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SFX
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Xsearch

EBSCO Host

WorldCat^{Local}

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WorldCat

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Central
Primo

bX SFX
API

LIBRIS
Xsearch



We asked for

Open System

Open Data

Open Access

Open Platform

What now?



The web is rapidly becoming a platform consisting of services and API:s

Machine 2 machine communication stands in the centre

Worldcat API, XISBN, Library Thing for Libraries , LIBRIS Xsearch, MetaLib | Aleph X-server, SFX API, Ebsco Host Integration Toolkit, ISI Web Services, Amazon, SRU/W, RDF | Linked Data, Google Code, Flickr API, Yahoo! Developer Network



By exploring web services and new technology we gain first hand experience making us stronger customers and development partners

By introducing other services into our OPAC the local collection is displayed in a broader context

The OPAC turns into a small federated search service, rich in functionality and content, seamlessly integrated with the library webpages

Strategy is to present library resources in a single thought through structure and presentation BUT ALSO to identify key services and make them available outside the library website

What is a Web service?

“A Web service is a software system designed to support interoperable machine-to-machine interaction over a network. It has an interface described in a machine-processable format (specifically WSDL). Other systems interact with the Web service in a manner prescribed by its description using SOAP-messages, typically conveyed using HTTP with an XML serialization in conjunction with other Web-related standards. “

// W3C definition

Web services are frequently just Internet Application Programming Interfaces (API) that can be accessed over a network, such as the Internet, and executed on a remote system hosting the requested services.

// Wikipedia – Web service

JULIA Bibliographic record

Result set | Add to My shelf | Save/E-mail

e-JULIA ▶

Record 1 of 2

JOURNAL

Journal of clinical nursing

Oxford : Blackwell Scientific, 1992-

Vol.1: no.1-

0962-1067

1997-2003

Tidskrifter

Shelf: Tidskrifter

◀ Previous record

Next record ▶

Bibliographic view | MARC

e-JULIA link services

- Search for JCR Impact factor
- Fulltext available from Academic Search Elite
- Fulltext available from CINAHL
- Fulltext available from Wiley InterScience (Blackwell)
- Abstract available from Elsevier Scopus
- Table of content available from Academic Search Elite
- RSS feed for ToC via ticTOC 

Sample of latest articles

- Not feeding, not coming home: parental experiences of infant feeding difficulties and family relationships in a neonatal unit
- Effective nursing care of adolescents diagnosed with anorexia nervosa: the patients' perspective
- The meaning of autonomy in nursing practice
- Factors contributing to nursing task incompletion as perceived by nurses working in Kuwait general hospitals
- The challenge of caring for patients in pain: from the nurse's perspective
- Review of upper airway resistance syndrome: nursing and clinical management
- Nurses' perceptions of environmental pressures in relation to their occupational stress
- Review of nursing care for patients undergoing percutaneous coronary intervention: a patient journey approach
- Review of non-invasive ventilation in the emergency department: clinical considerations and management priorities
- Educating patients to evaluate web-based health care information: the GATOR approach to healthy surfing

Journal services in JULIA

SFX API

- JCR Impact factor
- Fulltext availability
- Abstract availability
- Table of Content

U.K JISC : ticTOCs RSS service

- Txt file converted into XML
- Bundled with SFX API query
- If a feed is found it is parsed and results are presented as sample of latest articles

Prototype Javascript DOM parser and AJAX PHP backend for XML parsing and format

SFX API

[http://link.libris.kb.se/sfxjon?sid=ALEPH:JUL01&issn=\\$issn&sfx.response_type=simplexml](http://link.libris.kb.se/sfxjon?sid=ALEPH:JUL01&issn=$issn&sfx.response_type=simplexml)

&sfx.response_type=simplexml

```
<target>
  <target_name>ISI_JCR_LCL</target_name>
  <target_public_name>JCR Impact factor</target_public_name>
  <target_service_id>25320000000000004</target_service_id>
  <service_type>getCitedJournal</service_type>
  <parser>ISI::JCR</parser>
  <parse_param>url=http://gateway.isiknowledge.com</parse_param>
  <proxy>no</proxy>
  <crossref>no</crossref>
  <note></note>
  <authentication></authentication>
  <char_set></char_set>
  <displayer></displayer>
  <target_url>http://gateway.isiknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcApp=SFX&SrcAuth=SFX&
</target>
<target>
  <target_name>EBSCOHOST_ACADEMIC_SEARCH_ELITE</target_name>
  <target_public_name>Academic Search Elite</target_public_name>
  <target_service_id>110975424179894</target_service_id>
  <service_type>getFullTxt</service_type>
  <parser>EBSCO_HOST::ebSCO_am</parser>
  <parse_param>eh_user_id=s3912819.main.z3950&
db_host=afh&
url=http://articlematcher.ebscohost.com/EpAmRc.dll &
ebscohosturl = http://search.ebscohost.com & linkurl=http://openurl.ebscohost.com/linksvc/linking.aspx &
  <proxy>no</proxy>
  <crossref>no</crossref>
  <note></note>
  <authentication></authentication>
  <char_set></char_set>
  <displayer></displayer>
  <target_url>http://search.ebscohost.com/direct.asp?db=afh&jn=6PW&scope=site</target_url>
</target>
```

```
//Make the call to SFX and load results
$xml = simplexml_load_file($openurl);

//Targets base
$Base = $xml->targets;

//Loop through results and present selected targets
foreach ($Base->target as $target) {
    if($target->service_type == 'getCitedJournal' ){
        echo "<li><a href='". $proxy.$target->target_url .">Search for ". $target-
        >target_public_name . "</a></li> ";
    }if($target->service_type == 'getFullTxt'){
        echo "<li><a href='". $proxy.$target->target_url .">Fulltext available from ". $target-
        >target_public_name . "</a></li> ";
    }if($target->service_type == 'getAbstract'){
        echo "<li><a href='". $proxy.$target->target_url .">Abstract available from ". $target-
        >target_public_name . "</a></li> ";
    }if($target->service_type == 'getTOC'){
        echo "<li><a href='". $proxy.$target->target_url .">Table of content available from ".
        $target->target_public_name . "</a></li> ";
    }
}
```

The story behind this implementation, so far...


I hear things about an SFX API from friends *[network]*,

I go to the Systems seminar in Tel Aviv and learn more *[conference]*,

I get back home and code up the Embedded SFX lookup
in ALEPH OPAC plugin

I upload it to EL Commons after some tests *[open platform]*



 **Embedded SFX services in ALEPH OPAC** ★★★★★ 1 rates

Description:
The ALEPH OPAC supports the inclusion of a SFX button. But you could also include the SFX services offered for a bibliographic re

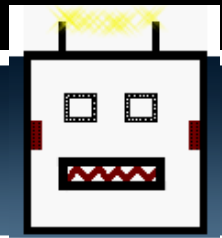
Modified: 3/17/09 1:35 PM

By: Daniel Forsman Institution: H?gskolan i J?nk?ping

At the same time, somewhere else ...

Robot Librarian

Disclaimer: I'm not actually a robot.




Feb 02 TicTocs: Give us a file! Pretty pretty pretty please!

For those who haven't heard, [ticTOCs](#) is a service that provides web-based access to a database of Journal [RSS/Atom](#) Table of Contents feeds. Awesome. In their blog at [News from TicTocs](#), a post titled [I want to be completely honest with you about ticTOCs](#) notes that:

As for the [API](#) - yes, we've been asked this several times, and the answer is that it is currently being written and should be available very soon.

Bill Dueber, systems librarian at Michigan University Libraries, asks for a tab delimited text file for ticTOCs in his [\[blog\]](#), Robot Librarian

Terry Bucknell announces on Code4Lib [\[email listserv\]](#) that they are working on an API but that a tab delimited file is now available for use, he references the Robot Librarian



Accreditation and Quality Assurance

Journal for Quality, Reliability and Security

Springer


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[ToC alert via e-mail](#)

 [RSS feed](#)

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Peter van Boheemen at Wageningen UR Library Loads the data from ticTOCs into their XML based CMS Creating an API by accident.... He writes about this in His *[blog]* WebQuery@Wageningen UR


I read it and get intrigued. I knew *[Network]* Peter from the Ex Libris Developers meeting in Jerusalem *[conference]*

I ask him *[email]* if I can use their ticTOCs API, he says yes and I create a test service. Works fine.

Peter can't guarantee long term usage.

I decide to create my own API, download txt file, convert, set up and implement



 **ticTOCs and embedded SFX services in OPAC** ★★★★★ 0 rates

Description:

By using the ticTOCs Journal Table of Contents Service you can include a link to a RSS feed for a journal. You can also parse the

Created by Daniel Forsman , H?gskolan i J?nk?ping, 07 Jul, 2009

Last updated by Daniel Forsman , H?gskolan i J?nk?ping, 07 Jul, 2009

After testing it for a couple of months in production my code is uploaded to EL Commons



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- › Services
- › Publishing and analysis
- › About the library



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- › Register for a library card
- › Journals at Jönköping University Library
- › New books
- › e-JULIA
- › LIBRIS
- › Google Book Search
- › Zeitgeist

LIBRIS Results

National union catalog

1. compleat history of druggs [Elektronisk resurs]
Pomet, Pierre
2. compleat history of druggs [Elektronisk resurs]
Pomet, Pierre

[View results in LIBRIS](#)

Ebsco Host metasearch

Articles from Ebsco Host databases

1. Executives address industry issues.
2. The exotic world of Pierre Pomet's A Compleat History of Druggs.
3. [Results of some clinical-pharmacological studies on ambroxol (NA 872)]

[View results in EbscoHost](#)

Search in Ebsco Host databases

- Academic Search Elite : 1
- CINAHL with Full Text : 0

Search Expanded Search Index Sub-collections History My shelf My pages

As a phrase? No Yes

Search

Hint!

You can limit your search to a specific collection under the Sub-collection tab. Search just for childrens books, ICE books or - e-resources.

Your search returned zero hits.

Did you mean ...?

You searched for **druggs**

LIBRIS suggests you try **drugs**

Yahoo! suggests you try **drugs**

WEB SERVICES BY YAHOO!

LIBRIS



OPAC spellchecker using Yahoo! webservice

★★★★★ 1 rates

Description:

There are several ways to provide your OPAC with a spellchecker. This is one way using the Yahoo! webservice. You could hook it u

Created by [Daniel Forsman](#) , [H?gskolan i J?nk?ping](#), 10 Sep, 2008

Last updated by [Daniel Forsman](#) , [H?gskolan i J?nk?ping](#), 10 Sep, 2008



local spell checker

★★★★★ 0 rates

Description:

A couple of scripts to put a spell check facility into the OPAC to suggest new searches when users misspell search terms.

Created by [Patrick H Pollard](#) , [University of Bristol](#), 16 Oct, 2008

Last updated by [Daniel Forsman](#) , [H?gskolan i J?nk?ping](#), 23 Oct, 2008



OPAC spelling suggestions using Yahoo! webservice *JSON*

★★★★★ 4 rates

Description:

We can't use PHP, so I've developed this code to read the JSON return from Yahoo! Spelling suggestion service. Suggestions are re

Modified: 4/14/09 11:21 AM

By: [Mark Watmough](#) Institution: [Napier University](#)



Spell Check Dictionary

★★★★★ 0 rates

Description:

Script to generate a local spellcheck dictionary from Voyager

Created by [Michael Doran](#) , [University of Texas at Arlington Library](#), 15 May, 2009

Last updated by [Michael Doran](#) , [University of Texas at Arlington Library](#), 15 May, 2009

```
$bibspell = simplexml_load_file($request);
```

```
$sugcheck = $bibspell->suggestion->term;
```

```
if($sugcheck){
```

```
foreach($bibspell->suggestion->term as $suggestion){
```

```
$suggest .= " $suggestion";
```

```
$suggest2 .= "$suggestion+";
```

```
}
```

```
echo "You searched for <i><font color=red>$clean_terms</font></i><br/><br />LIBRIS  
suggests you try <a href=http://julia.hj.se/F/?func=find-  
b&request=$suggest2&find_code=WRD&adjacent=N&x=53&y=1 &con_lng=eng>$suggest  
</a><br /><br />";
```

```
}else{
```

```
echo "LIBRIS has no suggestions for you.<br /><br />";
```

```
}
```

```
xml = simplexml_load_file($request);  
$description = $xml->Result;
```

```
if (empty($xml->Result)){  
echo "<p>Yahoo! has no suggestion for you";  
}else{
```

```
foreach ($xml->Result as $suggestion) {  
$suggest = $xml->Result;  
$suggest2 = http_build_query($suggest);  
$suggest3 = str_replace('0=',",",$suggest2);  
echo "<p>Yahoo! suggests you try <a href=http://julia.hj.se/F/?func=find-  
b&request=$suggest3&find_code=WRD&adjacent=N&x=53&y=1&con_lng=eng>$  
suggest</a>";  
}
```

EL Commons provides a platform for sharing, developing, co-laboration, documentation, alerting and discussing thus creating an unique community

We have open access, data, systems and a open platform

it is time to start sharing and see what happens



Ex Libris Commons is not about sharing code
It's about sharing and developing ideas



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Web <http://www.bibl.hj.se/eng>
OPAC <http://julia.hj.se>
Labs <http://www.bibl.hj.se/doc/6433>

