

Integrated Library Systems: Open Source and Customization December 10, 2009

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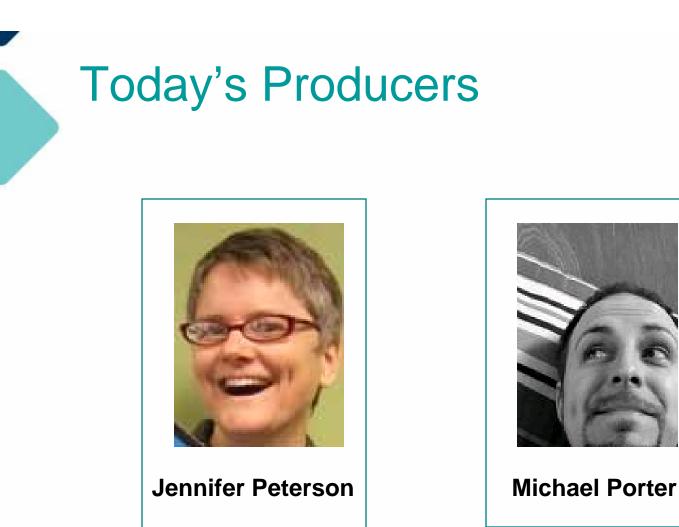


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And special production support today by OCLC's **Rick Sheets** and **Stephen Leonard**. Please feel free to chat with any of us for assistance.



Today's Moderator

Marshall Breeding Director for Innovative Technologies and Research, Vanderbilt University Library



and Panelists

Berit Nelson Vice President, Strategic Library Development, SirsiDynix



Bill Erickson

Vice President, Software Development & Integration, Equinox



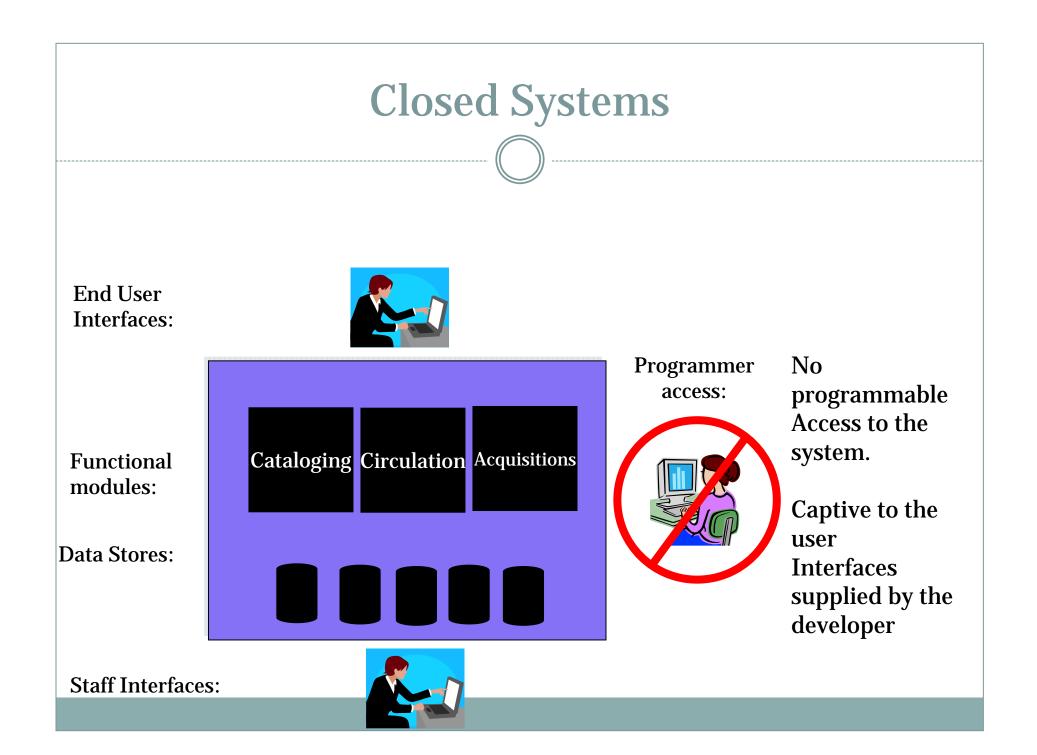
Tamar Sadeh Director of Marketing, Ex Libris

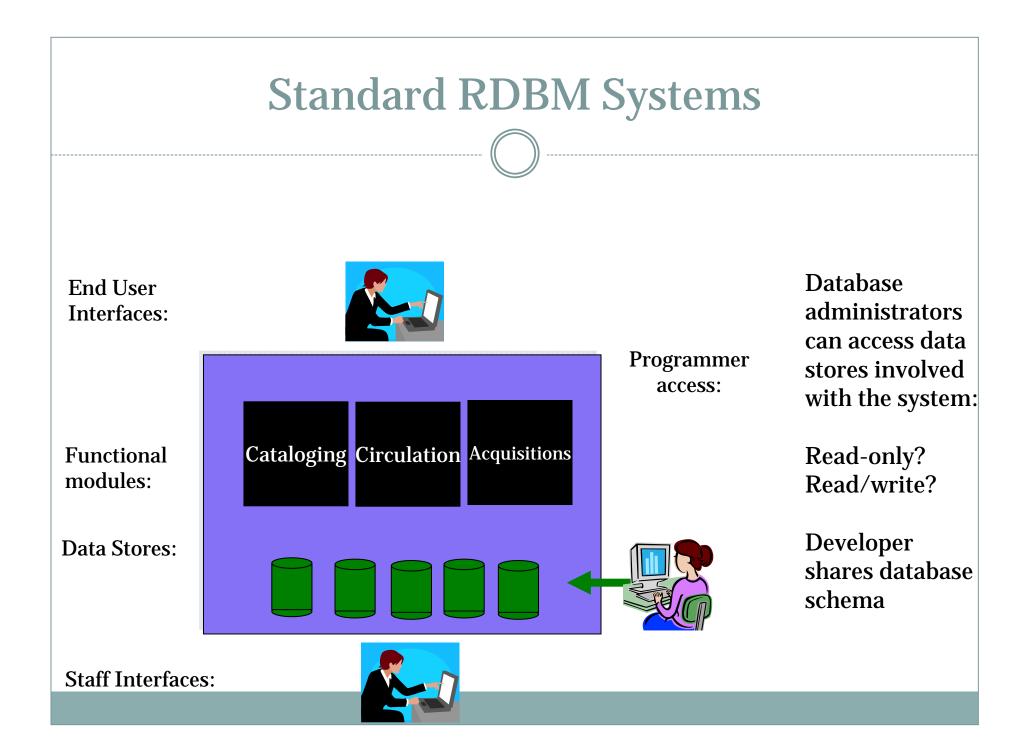


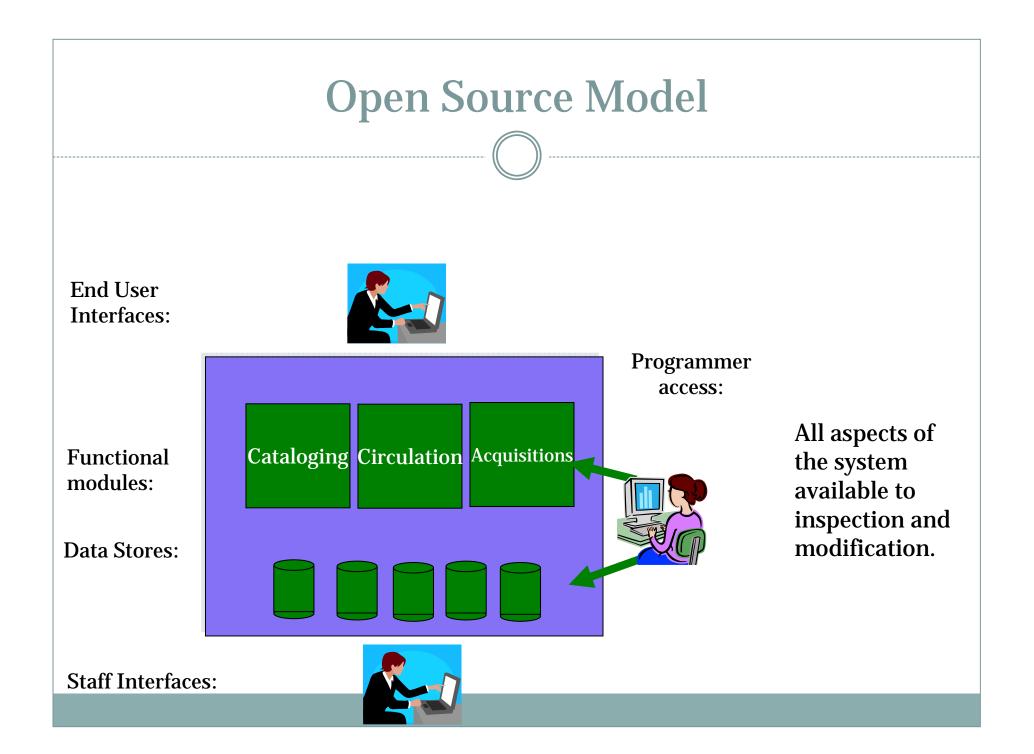


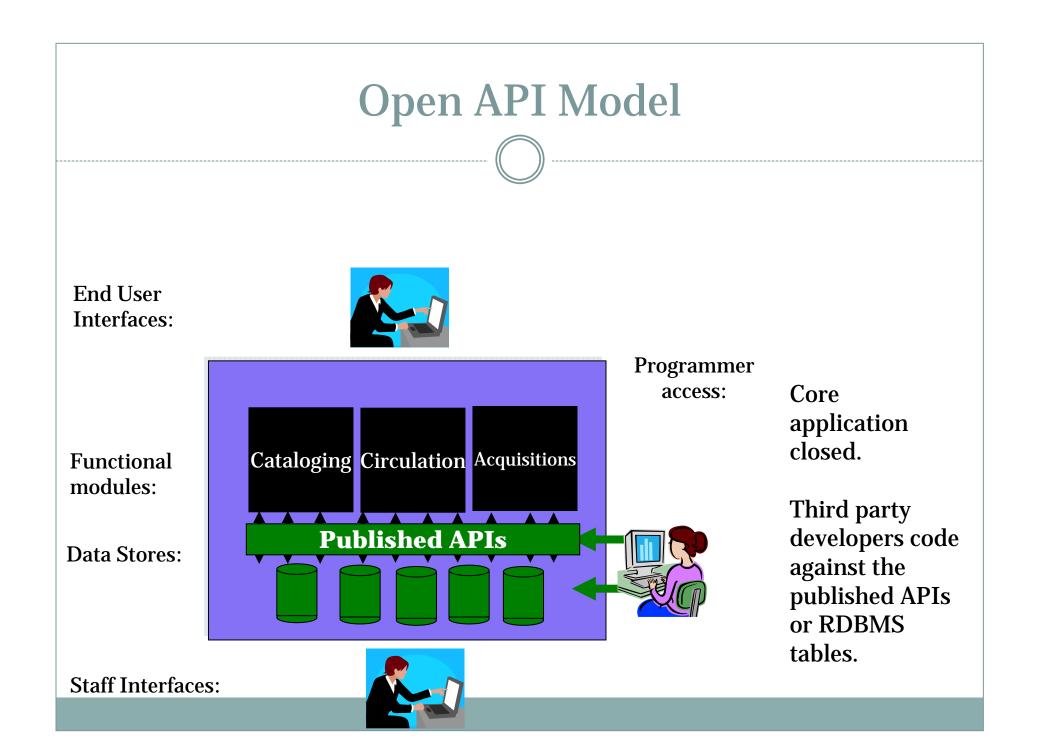
Overview: APIs and why you want one

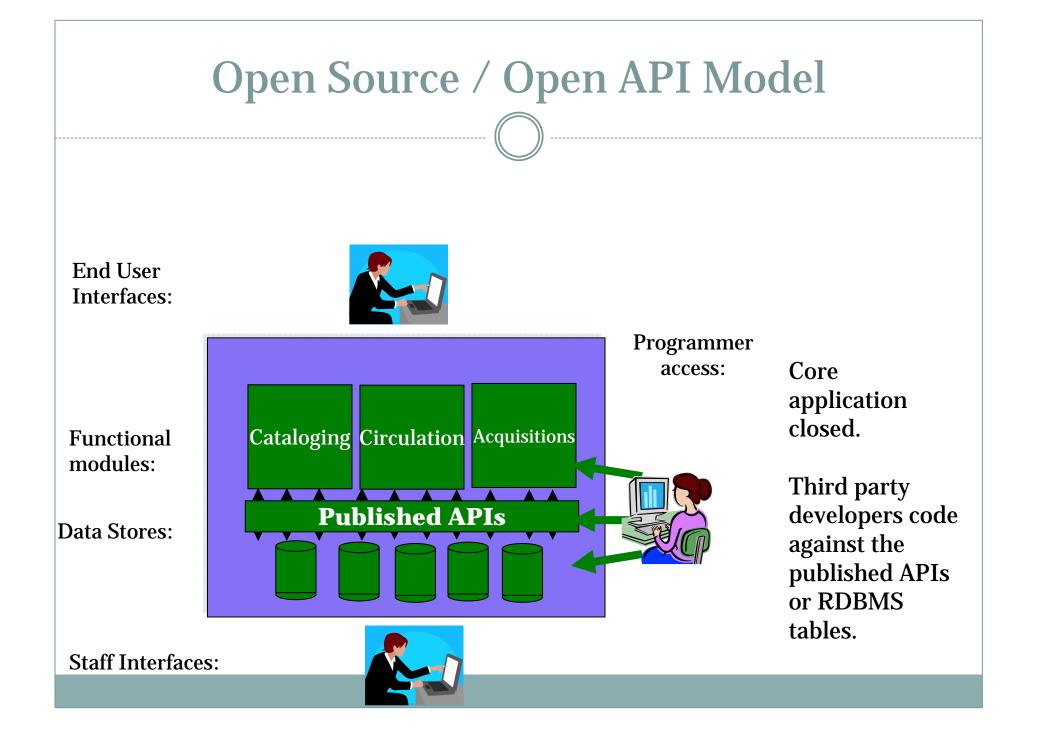
What does it mean to be Open?

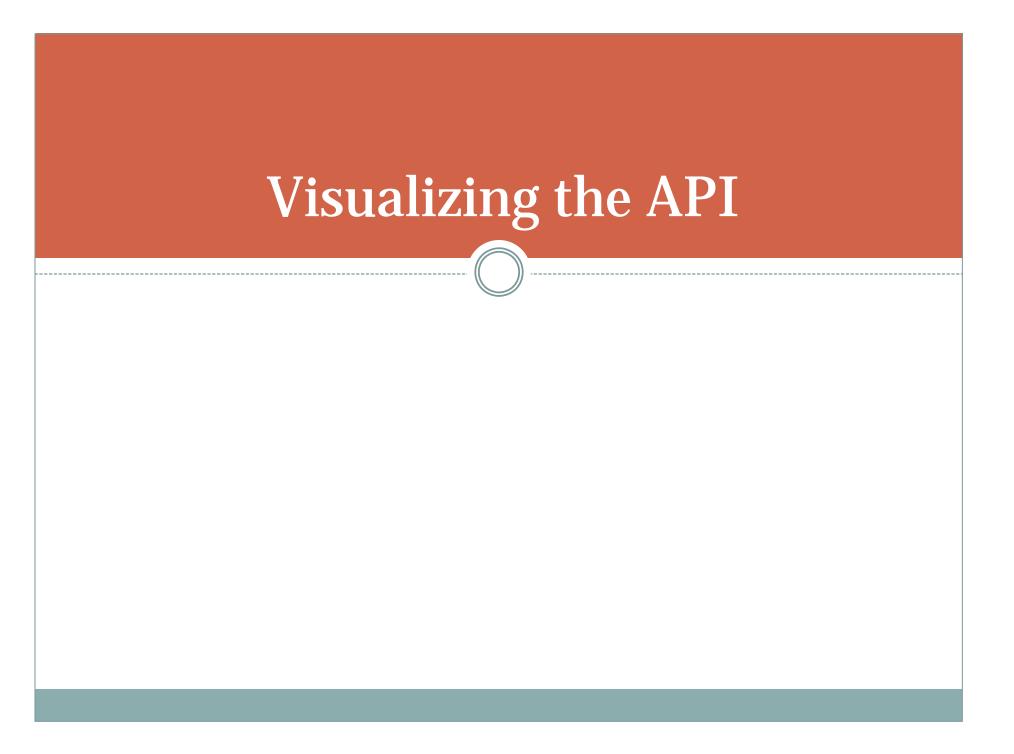


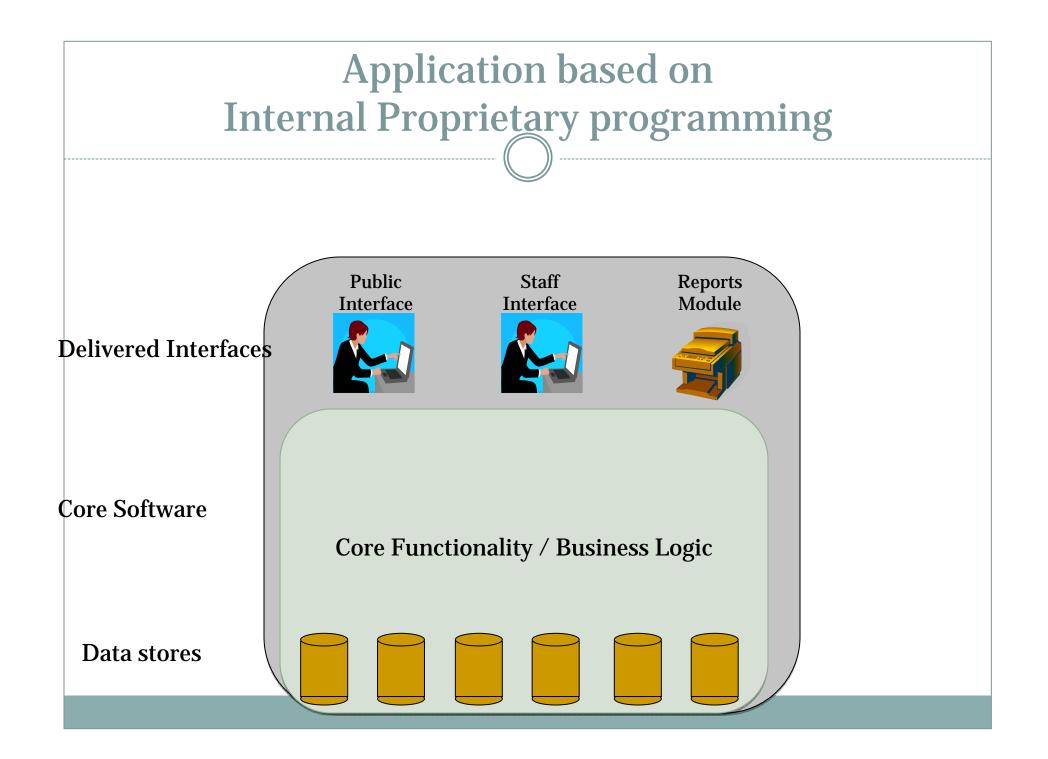


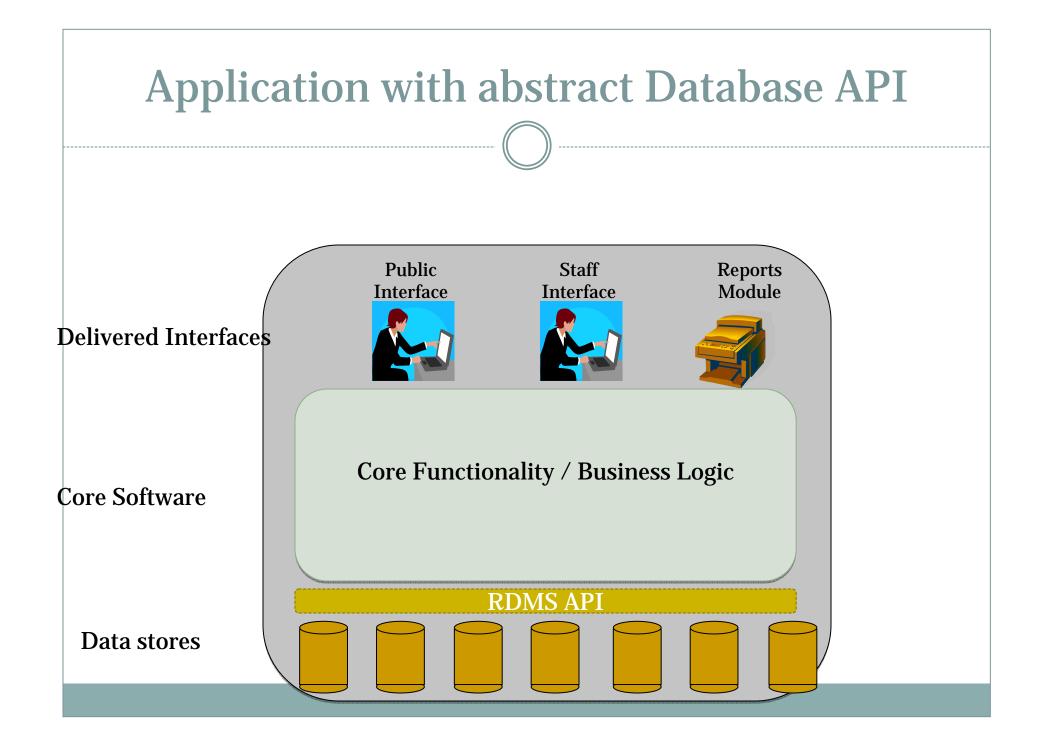


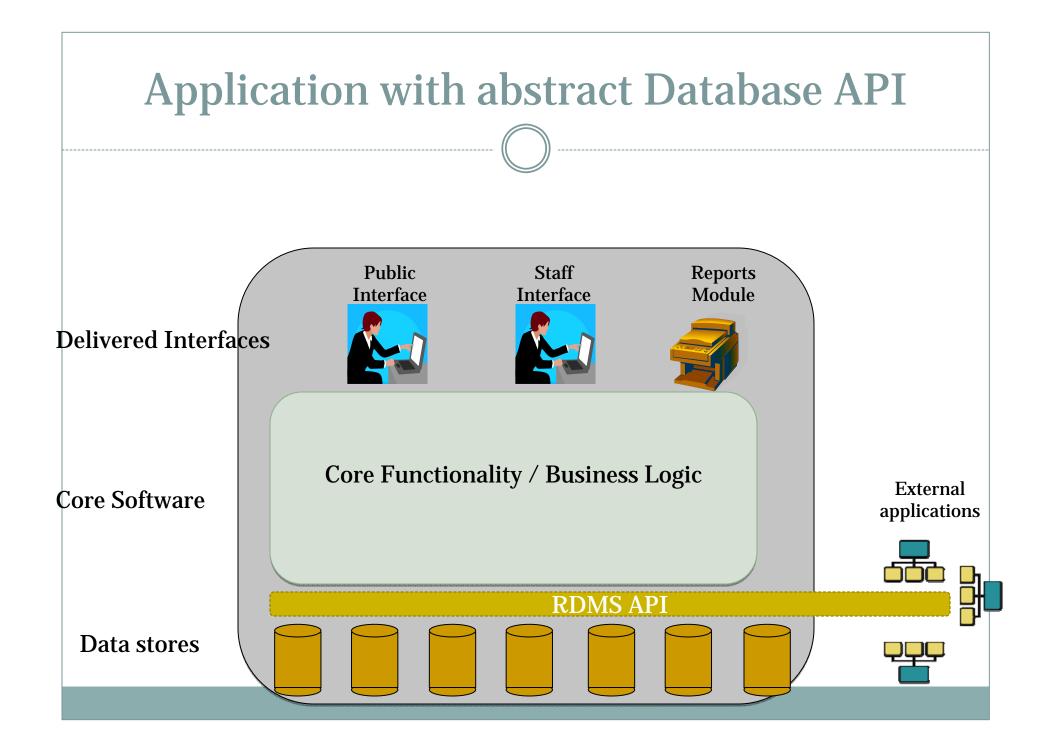


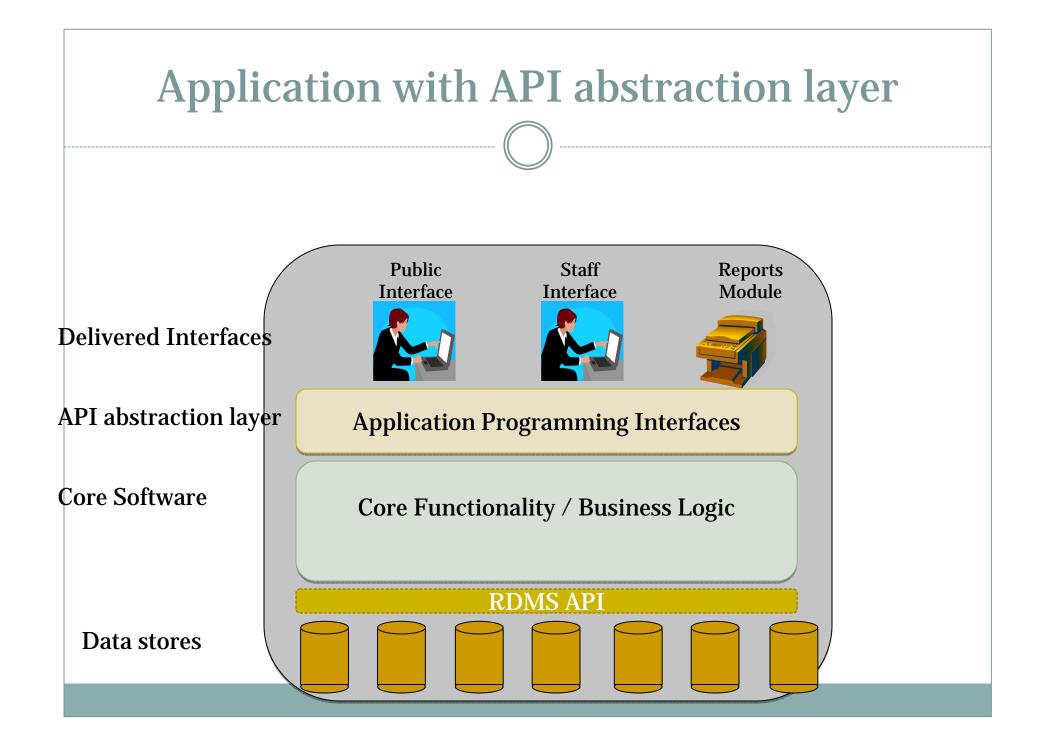


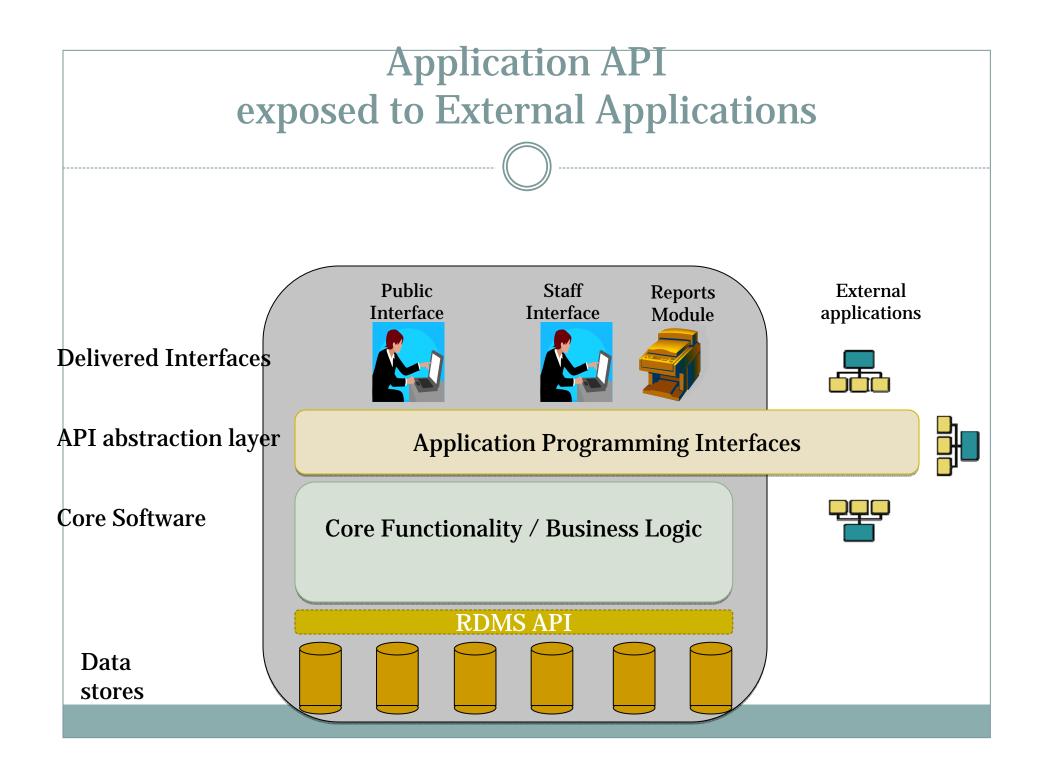


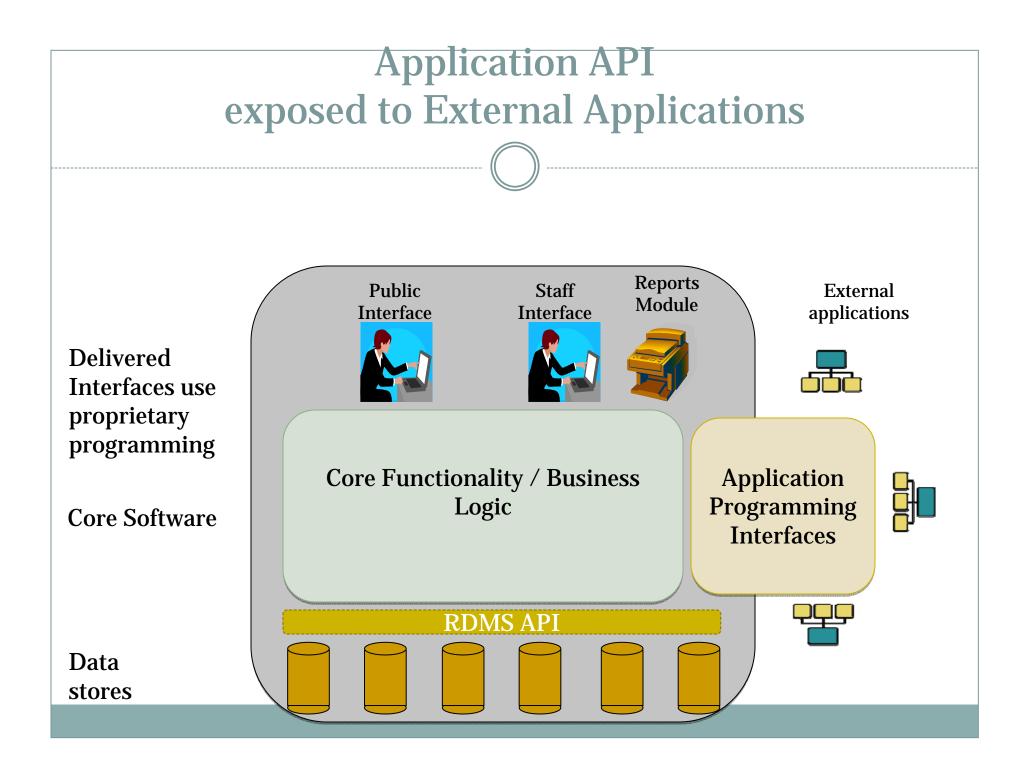












Customization at SirsiDynix

December 10, 2009

Berit Nelson, Vice President Strategic Library Development





Discussion Points

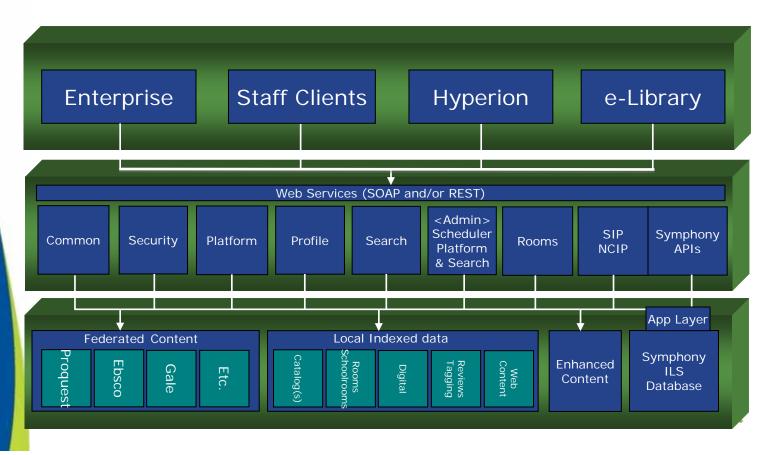
- General Architecture
- GUI (staff or public client-based) customization tools
- API, Web Services and Other Tools Supporting Interface Points
- Customer Input and Collaboration





General Architecture: Platform, SIP/NCIP, Symphony Web Services and APIs

- Consistent application interfaces
- Reuse within services
- Numerous data sources





GUI Customization Tools

- Symphony Staff Client:
 - General System Parameters, Policies, Indexes, Staff Creation, Permissions, etc.
- e-Library Public Interface:
 - General Customization
- Enterprise Search and Discovery
 - General Customization
 - Indexing definitions
 - DiXML (Discovery XML for User-Created Documents)





GUI Customization Tools: Staff/System Configuration

SirsiDynix Symphony WorkFlows

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😥 Control policy removal		Basic Entries Fixed Fields			Basic Display Keyword Browse Authority Hypertext Punctuations	
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GUI Customization Tools: e-Library

e-Library at ... Your Electronic Library on the Web

-

Search/Home I Need Material Knowledge Portal Reserve Desk My Account Contact Us Reading Programs Configuration Admin

Go Back Help Logout

Environment: System Administrator

General Access Look and Feel List Content Catalog Searching	Variable	Value	Use Base	Base Value
	Liblogo Gif			Undefined
Catalog Hit List Detailed Display My Account Online User Registration	Title	e-Library at		e-Library at
LDAP Configuration	Library Slogan	Your Electronic Library on the Web		Your Electronic Library on the Web
	Tagline	Online Scholars' Portal		Online Scholars' Portal
	Webcat Name	Stuart's Catalog		Stuart's Catalog
	Custom CSS			Undefined
	Libinfo Config	Yes No		Yes
	Libinfo Listlen	4		4
) Back Help Logout	<u></u>	Save		
Powered by:		e-Library at Online Scholars' Portal Copyright © 2000 - 2009, SirsiDynix		Тор

GUI Customization Tools: Enterprise

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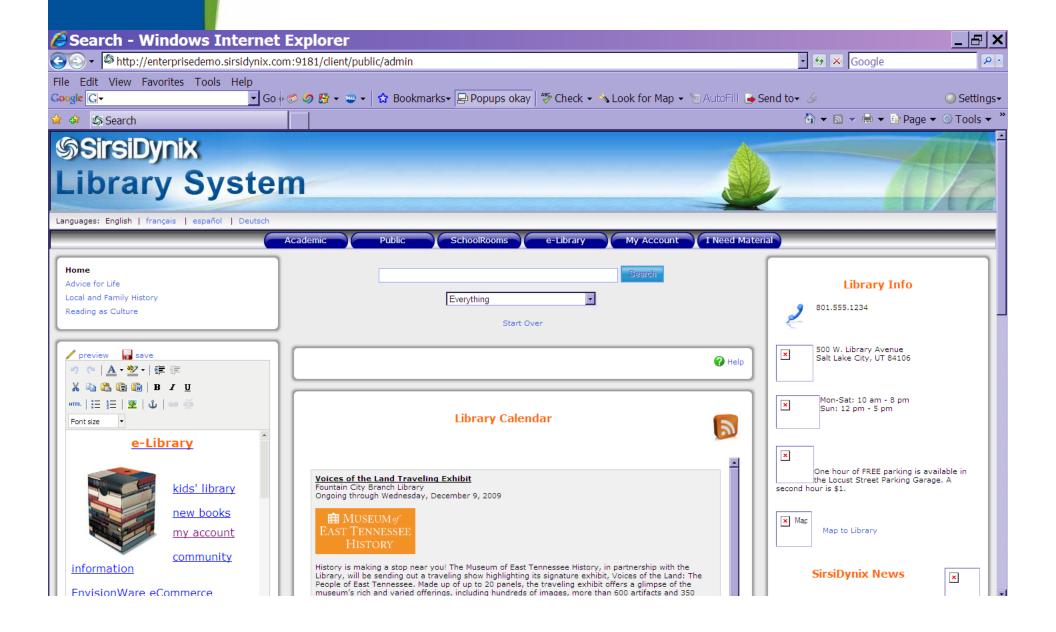
Administrative Interface

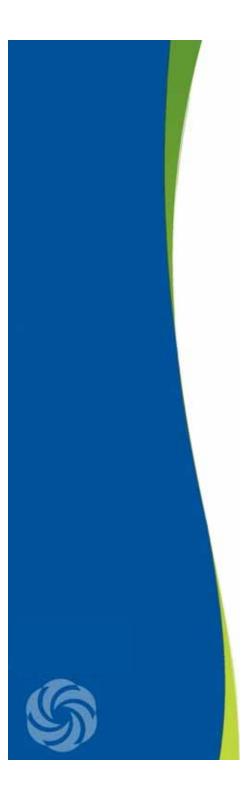
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fapage Search Configuration 🗖 Manage Discovery Search Sources 🗖 Edit D

Log Out (admin)	Edit Discovery Search Source Discovery Source: SD_DIXML	🕜 Help
 Manage Security Manage Profiles Manage Displays Manage Themes Manage Search Suggestions Manage Rooms Manage Rooms Manage Search Limits Manage Library Favorites Manage Federated Configuration Manage Scheduled Tasks Information 	*Code: SD_DIXML *Name: English (United States)++ Description: ** Search Fields Choose which search fields are available to this source (no more than 10 facets) Available ** Child Count ** Room Content Key ** Document ID ** ISN ** LCCN ** Wailable Profile ** Personal Subject ** Personal Subject ** Publisher ** Geographic Term *	
Done	Available Selected	* 100% -

GUI Configuration Tools: Enterprise







APIs, Web Services and Other Interface Points

Web Services & APIs

- SIP API—Industry standard for self-service circulation used by Horizon and Symphony
 - Support 15 standard SIP messages
 - Support 5 proprietary SIP messages
- NCIP API—Next generation of SIP
 - Support 15 standard messages
- Symphony API (HAT Protocol)—Full Symphony access
 - 415 supported, documented HAT commands
 - SirsiDynix Engineers use for day to day development
 - Available to customers via subscription





Web Services & APIs

- Symphony Web Services Simplification of HAT API
 - REST (<u>Representational State Transfer</u>)* and SOAP (<u>Simple Object</u> <u>Access Protocol</u>) Methods
 - Version 1: Support 30-40 Web service methods
 - Version 2: Roadmap target e-Library and JWF APIs
- Platform WS—Enterprise and Hyperion applications
 - 9 Web Services (WSDLs): 146 methods





- HAT request:
 - ^S01DAFFSIRSI^FcNONE^FWSIRSI^FEMAIN^tJ512^NCY^N FNONE^

NNY^DXALL^NdBOTH^JDN^JOY^DPN^JKN^^O

• REST request:

http://host/symws/rest/standard/LookupTitleInfo?titleID=512





HAT response:

^@01DAfG28^tJ512^IAWinter, Marian Hannah.^IBThe theatre of marvels^JEN^IF1964^IsPN2634.W513^NIDESCENDING^IUI64018759^nIY^I KMARC^IzMARC^LT^5ee^KI00337545^TR^aAocm00337545^Jt208 p.^JuB. Blom^Jv[1964]^Ko(AG)ocm00337545^IC1^Ns0^Nm0^IZ1^LNdc^dc^JH^W D1^nIY^DXMAIN^ns\$<library_name>^JkN^IQPN2634 .W513^I4PN2634 .W513^IrLCPER^IZ1^DXMAIN^ns\$<library_name>^IS1^NQ026849025^IGB OOK^Jb\$<ITYP_desc_book>^INSTACKS^nw^ILSTACKS^no\$<LOCN_desc_st acks>^JIN^^Z^5No1^ny\$<library_name>^Re^nz1^Rd0^Jd1^JZSTACKS^n o\$<LOCN_desc_stacks>^JrY^^O

REST response:

<LookupTitleInfoResponse xmIns="http://schemas.sirsidynix.com/symws/standard">

<titleInfo>

<titleID>512</titleID>

<totalCopiesAvailable>1</totalCopiesAvailable>

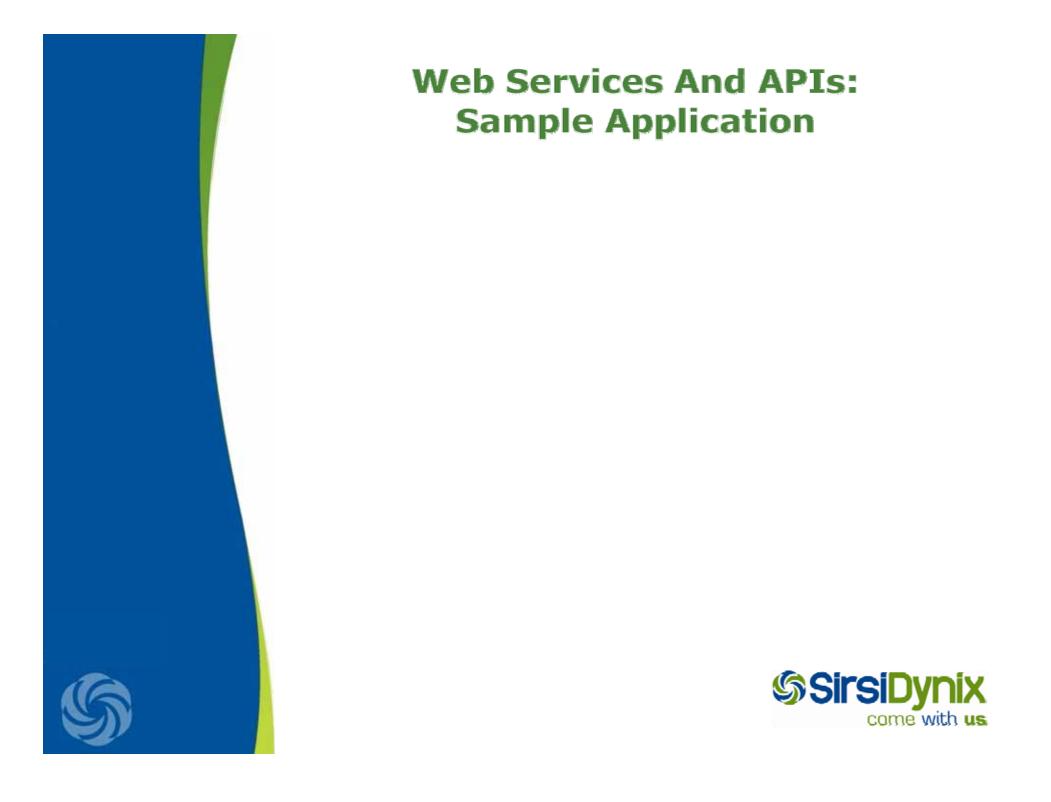
<totalResvCopiesAvailable>0</totalResvCopiesAvailable>

</titleInfo>

</LookupTitleInfoResponse>







DC Public iPhone App Based on traditional APIs



The bizarre truth : how I walked out the door mouth first-- and came back

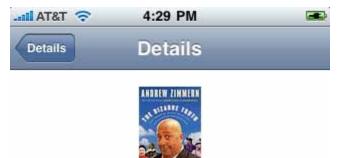
by Zimmern, Andrew.

Call Number: 394.12 Z76

Place Hold

Copies Available at

Martin Luther King Jr.... >



The bizarre truth : how I walked out the door mouth... Zimmern, Andrew.

Summary

Host of The Travel Channel's "Bizarre Foods" and famed foodcritic Zimmern offers a deliciously satisfying--at times, horrifying-exploration of the planet's culinary curiosities.



- SirsiDynix iPhone App
 - Based on new web services
 - Additional provision of geographic tools
 - More complete hold, My Account capabilities





iPhone App v.1 - Settings









iPhone App –Library Info









iPhone App – Library Info









iPhone App - Search









iPhone App – My Account









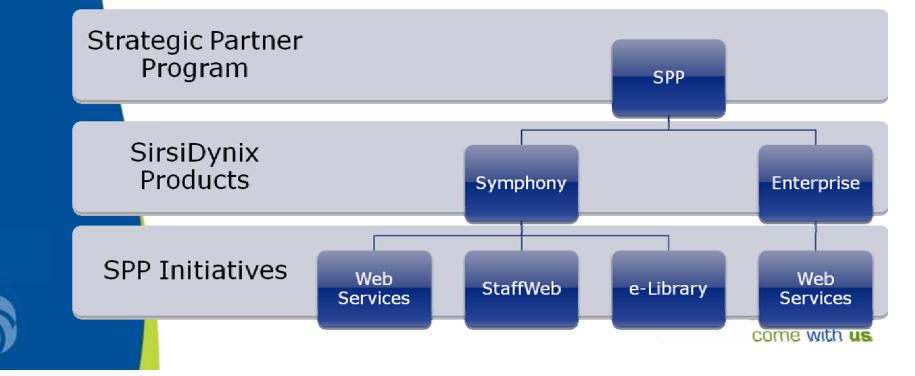
Customer Input and Collaboration





Strategic Partner Program

- **SPP**: The overarching program with well defined and pre-announced Initiatives.
- Initiative: Each Initiative will have potentially new or different or the same members from other initiatives.



Customer Input and Collaboration

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Bill Erickson

VP, Software Development & Integration <u>erickson@esilibrary.com</u> http://esilibrary.com

EVALUATION > TESTING > MIGRATION > DEPLOYMENT > SUPPORT



Evergreen: APIs and customization

- Web services for bibliographic data
- Customizing OPAC record displays with BibTemplate
- Resources for administrators and developers



The Traditional Approach

Web Services With Evergreen "Supercat"



What Has Supercat Done for Me Lately?

- Provides access to to bibliographic records and holdings data
- Output formats include
 - MARC XML
 - MODS XML
 - ATOM/RSS
 - OIA/DC
 - RDF/DC
 - SRW/DC
 - HTML
- Retrieval / Searching / Grouping / Browsing
 - Index searching
 - OpenSearch interface
 - Evergreen Bookbags
 - Record Identifiers
 - Date Filters



Sample URLs

- Record Retrieval by Identifier
 - http://host/opac/extras/supercat/retrieve/oai_dc/record/555
 - http://host/opac/extras/supercat/retrieve/rdf_dc/record/555
 - http://host/opac/extras/supercat/retrieve/mods/record/555
 - http://host/opac/extras/supercat/retrieve/marcxml/record/555
- Feeds/Bookbags
 - http://host/opac/extras/feed/bookbag/atom/3
 - http://host/opac/extras/feed/freshmeat/atom/biblio/import/10/2008-01-01
- Available Formats
 - http://host/opac/extras/supercat/formats/record
- Index Searching / Browsing
 - http://host/opac/extras/browse/marcxml/title/-/harry+potter
 - http:://host/opac/extras/browse/{format}/{axis}/{site (- for all)}/{string}



What can you do with this?

- Build an OPAC à la Evergreen Slimpac
- Build browse interfaces
- Harvest data for external applications



Bibliographic Record Displays With BibTemplate



What does BibTemplate look like?

http://laurentian.concat.ca/opac/en-CA/skin/lul/xml/rdetail.xml?r=888287&l=105

```
<script type='opac/slot-format'>
dojo.query('#tag246').removeClass('hide_me');
return '<span>' + dojox.data.dom.textContent(item) + '</span><br/>>';
</script>
```

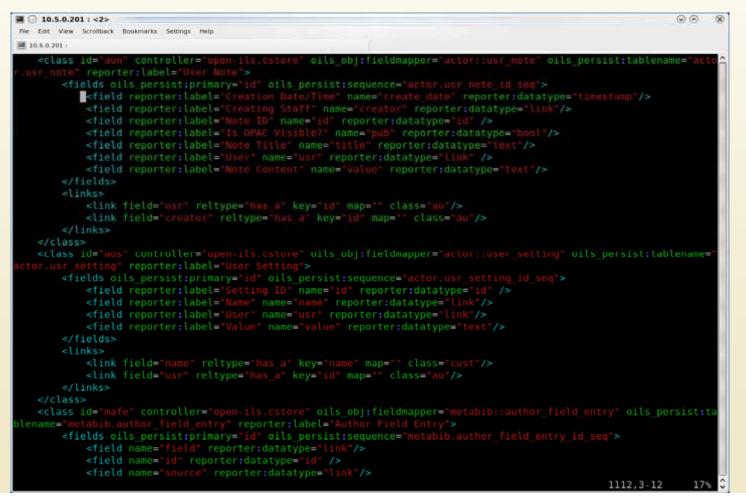
dojo.require('openils.BibTemplate'); new openils.BibTemplate({ record : new CGI().param('r'), org_unit : here.shortname() }).render();



Digging Deeper: Resources for Developers and Administrators



Consistent object definitions and the IDL





7 Day Overdue Email Notification

Event Environment Event Parameters Test

Trigger Event Environment

1	Event Definition	Field Path	Collector	Label
	1	billable_transaction.summary		
	1	circ_lib.billing_address		
	1	target_copy.call_number.record.simple_record		
	1	usr		

		۲
Definition ID	3	
Event Definition	1	
Field Path	billable_transaction.summary	
Collector		
Label		
Cancel	Save	



Reactor	SendEmail -
Definition ID	1
Failure Cleanup	▼
Success Cleanup	▼
	<pre>[%- USE date -%] [%- user = target.0.usr -%] To: [%- params.recipient_email user.email %] From: [%- params.sender_email default_sender %] Subject: Overdue Notification Dear [% user.family_name %], [% user.first_given_name %] Our records indicate the following items are overdue. [% FOR circ IN target %] Title: [% circ.target_copy.call_number.record.simple_record.title %] Barcode: [% circ.target_copy.barcode %] Due: [% date.format(helpers.format_date(circ.due_date), '%Y-%m-%d') %] Item Cost: [% helpers.get_copy_price(circ.target_copy) %] Total For Transaction: [% circ.billable_transaction.summary.total_owed %] Library: [% circ.circ_lib.name %] [% END %]</pre>



Dear Smith, John Our records indicate the following items are overdue.

Title: Double Counterpoint and Canon Barcode: 787131236402 Due: 2009-11-24 Item Cost: 0 Total For Transaction: \$0.40 Library: Athens-Clarke County Library



Auto Widgets (Grids and Forms)



Event Definitions Hooks Reactors Validators

Trigger Event Definitions

Back Next

	4		1	1	14		1		-		
/	Owning Library	Name	Hook	Active	Processing Delay	Processing Delay Context Field	Processing Group Context Field	Validator	Reactor	Granularity	Ma De
J	PINES	7 Day Overdue (Email)	checkout.due	True	7 days	due_date	usr	CirclsOverdue	SendEmail		
D	PINES	90 Day Overdue Mark Lost	checkout.due	False	90 days	due_date		CirclsOverdue	MarkItemLost		
0	PINES	6 Day Overdue Email Notification	checkout.due	False	6 days	due_date	usr	CirclsOverdue	SendEmail		
3	PINES	10 Day Overdue (Email)	checkout.due	True	10 days	due_date	usr	CirclsOverdue	SendEmail	Daily	
D	PINES	<u>3 Day Courtesy</u> (Email)	checkout.due	True	-3 days	due_date	usr	CirclsOpen	SendEmail		
D	PINES	3 Day Pre-Due	checkout.due	False	-3 days	due_date	usr	MaxPassiveDelayAge	SendEmail		
J	PINES	PO HTML	format.po.html	True	00:05:00			NOOP_True	ProcessTemplate		
	PINES	PO JEDI	format.po.jedi	True	00:05:00			NOOP_True	ProcessTemplate		
	PINES	Self-Checkout Receipt	format.selfcheck.check	True	00:05:00		usr	NOOP_True	ProcessTemplate	print-on-demand	
	PINES	Hold Ready for Pickup Email Notification	hold.available	True	00:01:00	shelf_time	usr	HoldIsAvailable	SendEmail		
	PINES	Hold waiting for pickup for long time	hold_request.long_wait	False	6 mons	request_time	usr	NOOP_True	SendEmail		
	PINES	Hold Expires from Shelf Soon	hold_request.shelf_exp	i True	-1 days	shelf_expire_time	usr	HoldIsAvailable	SendEmail		
	PINES	90 Day Overdue Mark Lost Notice	lost.auto	False	00:05:00		usr	NOOP_True	SendEmail		
	PINES	Collections Warning Email	penalty.PATRON_EXC	True	00:05:00			NOOP_True	SendEmail		



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<pre><div dojotype="dijit.layout.ContentPane" layoutalign="client" style="height:600px"></div></pre>		
dojoType="openils.wldget.AutoGrid"		
fieldOrder="['owner', 'name', 'hook', 'active', 'delay', 'delay_field', 'group_field', 'validator', 'reactor'		
<pre>suppressFields="['template', 'cleanup_failure', 'cleanup_success']"</pre>		
<pre>query="{id: '"'}"</pre>		
<pre>fmClass='atevdef' defaultCellWidth='"auto"'</pre>		
editStyle='pane'		
showPaginator='true'		
editOnEnter='true'>		
<thead></thead>		



Developer APIs

- Client Libraries
 - . C
 - Perl
 - Python
 - . Java
 - Javascript
- . HTTP gateways
 - . REST-ish
 - . Streaming (multipart mixed/replace)
 - . XML-RPC
 - Ad-Hoc

```
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```

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10.5.0.201 ;

import sys, urllib, libxml2

```
SEARCH_URL='http://10.5.0.201/opac/extras/browse/marcxml-full/'
sys.stdout.write("Enter search term: ")
term = urllib.quote(sys.stdin.readline())
print ""
page = urllib.urlopen("%s%s" % (SEARCH_URL, term))
doc = libxml2.parseDoc(page.read())
ctx = doc.xpathNewContext()
ctx.xpathRegisterNs('marc', 'http://www.loc.gov/MARC21/slim')
ctx.xpathRegisterNs('holdings', 'http://open-ils.org/spec/holdings/v1')
```

```
for record in ctx.xpathEval("//marc:record"):
    ctx.setContextNode(record)
```

```
title = ctx.xpathEval("marc:datafield[@tag='245']/marc:subfield[@code='a']")
if len(title): print title[0].content
```

```
author = ctx.xpathEval("marc:datafield[@tag='100']/marc:subfield[@code='a']")
if len(author): print author[0].content
```

```
for copy in ctx.xpathEval('holdings:volumes/holdings:volume/holdings:copies/holdings:copy'):
    ctx.setContextNode(copy)
    print "\t%s @ %s / %s" % (
        copy.prop('barcode'),
        ctx.xpathEval('holdings:location')[0].content,
        ctx.xpathEval('holdings:circlib')[0].content
)
```

print ""

1,1

```
10.5.0.201 : <2>
                                                                                                                      X
                                                                                                                \odot
 File Edit View Scrollback Bookmarks Settings Help
 10.5.0.201 :
berick@DEV-BRICK0-HEAD% python ppac.py
Enter search term: title/ARL-ATH/jazz
Dixieland jazz classics
        473210506612 @ Stacks / Athens-Clarke County Library
        658395281482 @ Stacks / Athens-Clarke County Library
        251500235271 @ Stacks / Athens-Clarke County Library
        590596252688 @ AV / Athens-Clarke County Library
Double counterpoint and canon
Prout, Ebenezer,
        394498461166 @ Stacks / Athens-Clarke County Library
        787131236402 @ Stacks / Athens-Clarke County Library
        640330282430 @ Stacks / Athens-Clarke County Library
        467908381944 @ Stacks / Athens-Clarke County Library
        880136513918 @ Stacks / Athens-Clarke County Library
        955261580066 @ Stacks / Athens-Clarke County Library
        601439086897 @ Stacks / Athens-Clarke County Library
        348313339906 @ Stacks / Athens-Clarke County Library
Fats Waller's heavenly jive
Braff, Rudy
        911418354796 @ Stacks / Athens-Clarke County Library
        438668991309 @ Stacks / Athens-Clarke County Library
        322018573089 @ Stacks / Athens-Clarke County Library
        014211084620 @ Stacks / Athens-Clarke County Library
        827475947208 @ Stacks / Athens-Clarke County Library
Forty daily exercises for the piano :
Czerny, Carl,
        349308083811 @ Stacks / Athens-Clarke County Library
```

10.5.0.201 : <2>

File Edit View Scrollback Bookmarks Settings Help

10.5.0.201 ;

import sys, osrf.system, osrf.ses, oils.system, oils.utils.utils

```
oils.system.System.connect(config_file='/home/berick/.srfsh.xml', config_context='srfsh')
```

```
sys.stdout.write("Enter search term: ")
term = sys.stdin.readline().rstrip()
```

```
auth = oils.utils.utils.login('admin', 'open-ils')['payload']['authtoken']
```

```
{'family_name' : {'value' : term, 'group' : 0}}, 50
```

```
for id in req.recv().content():
    user = ses.request('open-ils.actor.user.fleshed.retrieve', auth, id).recv().content()
    print "%s, %s : %s" % (user.family name(), user.first given name(), user.card().barcode())
```

X

10.5.0.201 : <2>	$\odot \odot $
File Edit View Scrollback Bookmarks Settings Help	
10.5.0.201 :	
	^

berick@DEV-BRICK0-HEAD% python patrons.py

Enter search term: smith Smith, Aaron : 328075 Smith, Aaron : 395199 Smith, Aaron : 337642 Smith, Aaron : 310080 Smith, Aaron : 307472 Smith, Aaron : 387807 Smith, Abigail : 338103 Smith, Ada : 372826 Smith, Adam : 335559 Smith, Adam : 304472 Smith, Adam : 361566 Smith, Adam : 361596 Smith, Addie : 303517 Smith, Adriana : 351455 Smith, Agnes : 375774 Smith, Agnes : 344560 Smith, Agnes : 331564 Smith, Agnes : 394671 Smith, Aimee : 326974 Smith, Alan : 350776 Smith, Alan : 361750 Smith, Alan : 369908 Smith, Alana : 339196 Smith, Alejandro : 380891 Smith, Alex : 377583 Smith, Alexander : 331159 Smith, Alexander : 351539 Smith, Alexander : 303459 Smith, Alfred : 323660 Smith, Alfred : 316912



Questions?

Bill Erickson erickson@esilibrary.com http://esilibrary.com







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Ex Libris Open-Platform Program

Tamar Sadeh, Director of Marketing TechSource Webinar December 10, 2009

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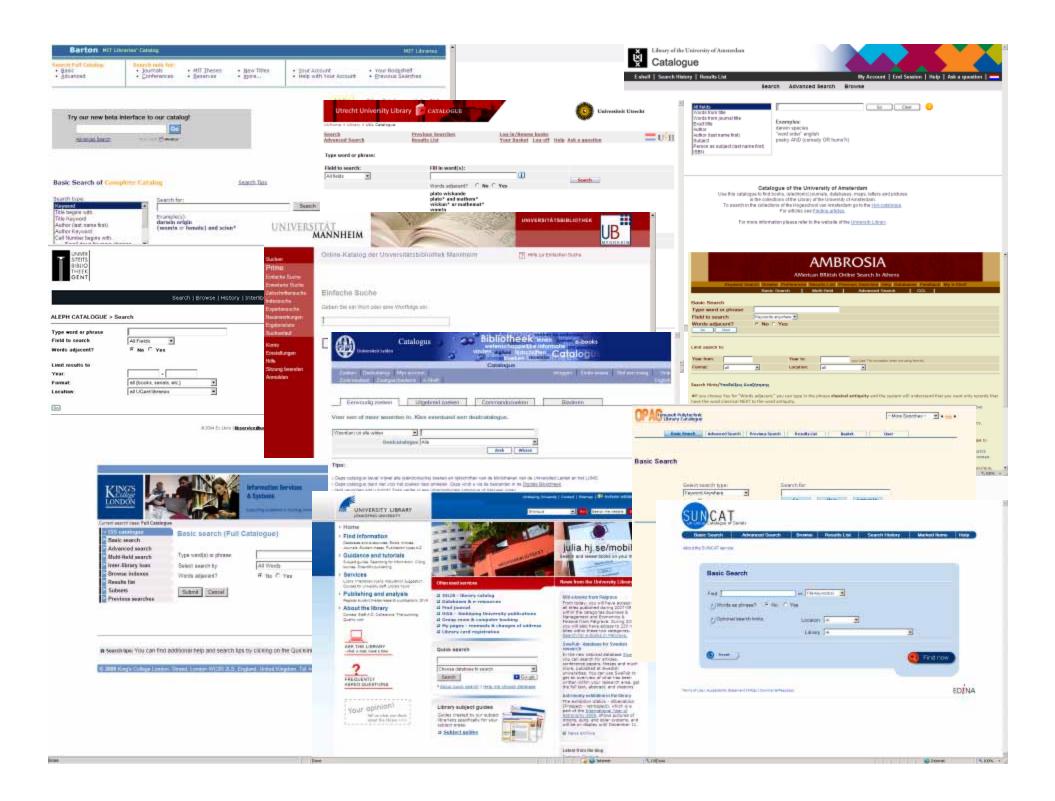
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open source interface layer on top of the proprietary—yet open—MetaLib metasearch system, integrating services from the SFX link resolver and the bX recommender service

Note: there are over 1500 institutions using MetaLib, worldwide (December 2009)



Xerxes Demo

Home > Quick Search > Search Status

Quick Search

Search au	thor 💌 for sompel	GO
More Optior	IS	

Search Status		
Database	Status	Hits
Academic Search Premier	DONE	10
Books worldwide	DONE	122
ERIC (EBSCO)	DONE	8
ScienceDirect via SCIRUS (Elsevier)	FETCHING	139

My Account

- Log-out guest
- My Saved Records
- My Saved Databases

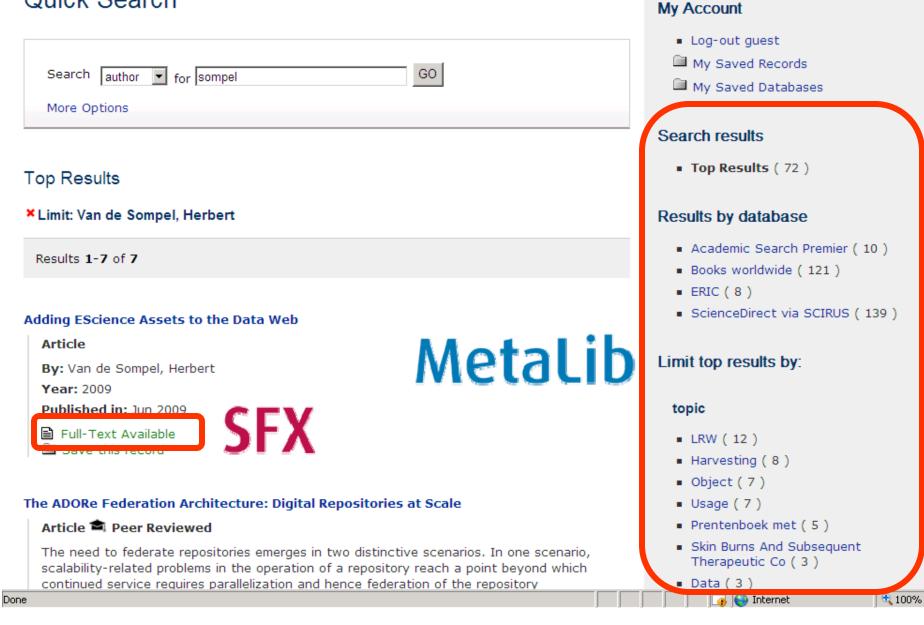
MetaLib

.

Xerxes Demo

Home > Quick Search > Top Results

Quick Search



Summary

Includes four articles that discuss a conceptual framework for open and context-sensitive reference linking for Web-based scholarly information; issues for academic libraries due to increased use of information and communication technologies; the future of electronic books in academic libraries; and an academic library user study on the needs for digital image delivery. (LRW)

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English

Standard Numbers:

ISSN: 10829873

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David Walker



ACTIVE PROJECTS

Xerxes

A system that leverages the Metalib X-Server, WorldCat API and other web services to create a custom search-and-link library portal.

RSS Creator

A system that leverages SFX and Metalib to create RSS feeds for any journal or newspaper indexed and abstracted in a library's subscription databases.

Shrew

A system that provides a fully customizable and extensible interface to the Innovative catalog system, as well as a an SRU and OpenSearch server.

Chameleon

A module that dynamically integrates a library's print journal holding information into SFX and provides a custom, context-sensitive catalog interface to end-users.

About David



David Walker is Library Web Services Manager at the <u>California State</u> <u>University</u> Office of the Chancellor. His

work focuses on the design of usercentered web sites and web-based applications for academic libraries.

More information

🖻 <u>Resume</u> 🔀

Publications & Presentations



About the process

"It only took a few weeks to get the original system up and running -- to the point where we could perform searches, for example.

But there's a lot of configuration and functionality we added to Xerxes ... that at the time either MetaLib didn't support, or we wanted to do differently. That is where the bulk of the time has gone.

I've been working on it off and on for three years now."



About the community

"In terms of community, we have about 30 people on the listserv now, and four institutions outside of Cal State that have gone live with Xerxes. There are a number of institutions -including one site in Japan, a couple in Australia, and a half-dozen in Europe -- that are in the process of setting the system up."



About the development cycle

"People on the listserv will sometimes ask for thing to be added to the system, but for the most part it's Jonathan and I driving the feature list. It's kind of benevolent dictatorship. There's no voting on features or anything."



And...

"Ironically, one of the benefits of an open source application built by libraries is that we are not as obligated to meet the (admittedly rather unusual) demands that libraries seem to put on vendors... And, since no one is paying us to do this, we can have a kind of "take it or build it yourself" attitude toward undesirable feature requests."



Many more examples



The Ex Libris Open-Platform Strategy





The Ex Libris Open-Platform Strategy

- We provide robust solutions—professionally developed and maintained according to a long term roadmap—that are open
- We support and encourage customers who wish to extend our solutions with code that they develop or adapt
- We facilitate collaboration—the sharing of ideas and code that apply to our solutions



What do we mean by open products?

- Built from separate, independent software components, interoperable through <u>open</u> <u>interfaces</u>
- Integrate with existing environment, as entire products or subcomponents
- Allow for enhancements through locallydeveloped, open source, or 3rd party code





Open Interfaces

- APIs (SOAP Web services, X-Services, RESTful Web services)
- Plug-ins
- Adapters
- Deep Links
- Views



• Whenever available, we rely on industry standards



Our Program



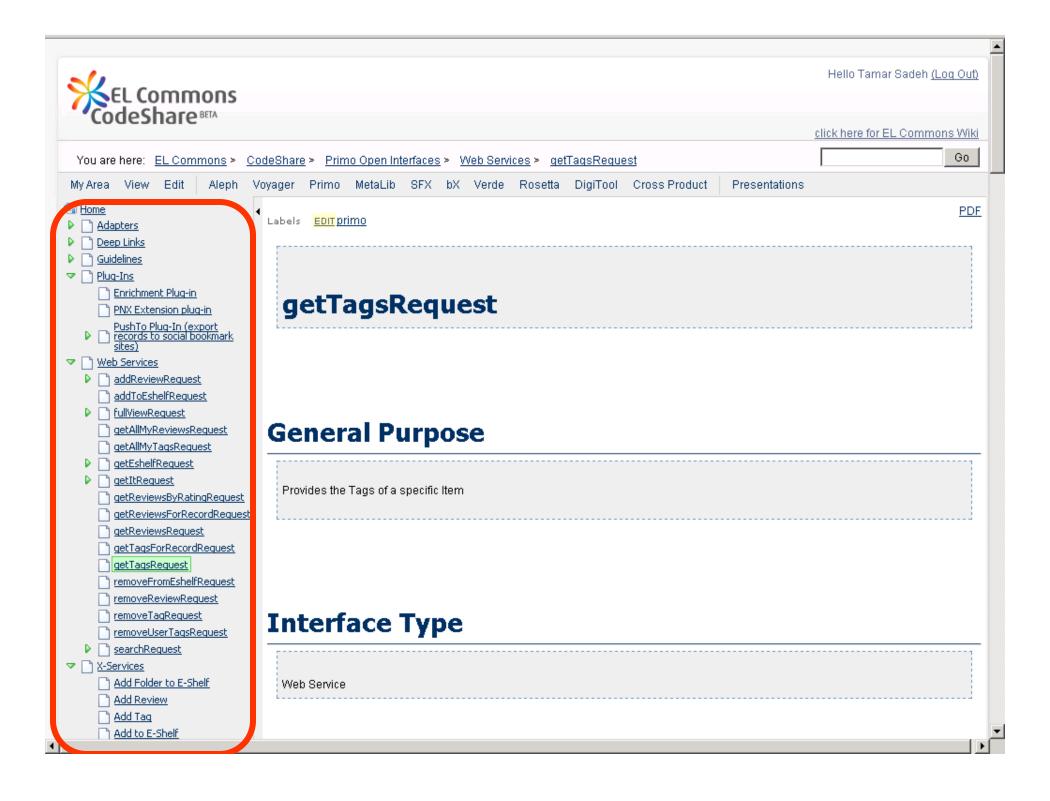


The Ex Libris open-platform program

Operating on two parallel tracks:

- Internally—development efforts
 - Formalized the process by which Ex Libris designs, implements, documents and publishes its open interfaces
 - Went through organizational alignment
- Externally—working with the community
 - Publish documentation for open interfaces
 - Host community code
 - Provide tools for collaboration
 - Conduct face-to-face meetings with customer developers





Euriview Get E-Shelf Get Reviews Get Tags Get Tags for Record

- 🕨 📄 <u>GetIt</u>
 - Remove Review
 - Remove Taq
 - Remove from E-Shelf
 - addTagReguest
 - getAllMyReviews
 - getAllMyTags
 - getReviewsByRating
 - getReviewsForRecord
 - removeUserTags

Table of Contents

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- General Purpose
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- Product Version Compatibility
- <u>WSDL</u>
- Input Parameters
- <u>Output</u>
- <u>XSD</u>
- Example Input
- Example Output
- Response

Product Version Compatibility

Version 2.0 and later

WSDL

The WSDL file is located under the following URL: <your address>:<fe_port>/PrimoWebServices/services/tags?wsdl

WSDL

The WSDL file is located under the following URL: <your address>:<fe_port>/PrimoWebServices/services/tags?wsdl

Input Parameters

Element	Description	Value	Structure
getTagsRequest	Root element of the XML tree	no value	root element
userld	userid	string	sub-element of getTagsRequest
docld	record id from the PNX table	string	sub-element of getTagsRequest

L.....

Output

Element	Description	Value	Structure
TagsAndReviews	Root element of the XML tree	no value	root element
Tags	Element to contain one or several sub-elements (see structure)	no value	sub-element of TagsAndReviews
MyTags	Element to contain one or several sub-elements (see structure)	no value	sub-element of Tags
Tag	Element to contain one or several sub-elements (see structure)	no value	sub-element of MyTags
userld	userid	string	sub-element of Tag
docid	record id from the PNV table	etrina	sub-element of Tea

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Click here to view the XSD

Example Input

<getTagsRequest xmlns="http://www.exlibris.com/primo/xsd/wsRequest("

xmlns:uic="http://www.exlibris.com/primo/xsd/primoview/uicomponents\">

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- <docld> demo_voyager968394</docld>
- <userid>demo</userid>
- </getTagsRequest>

Example Output

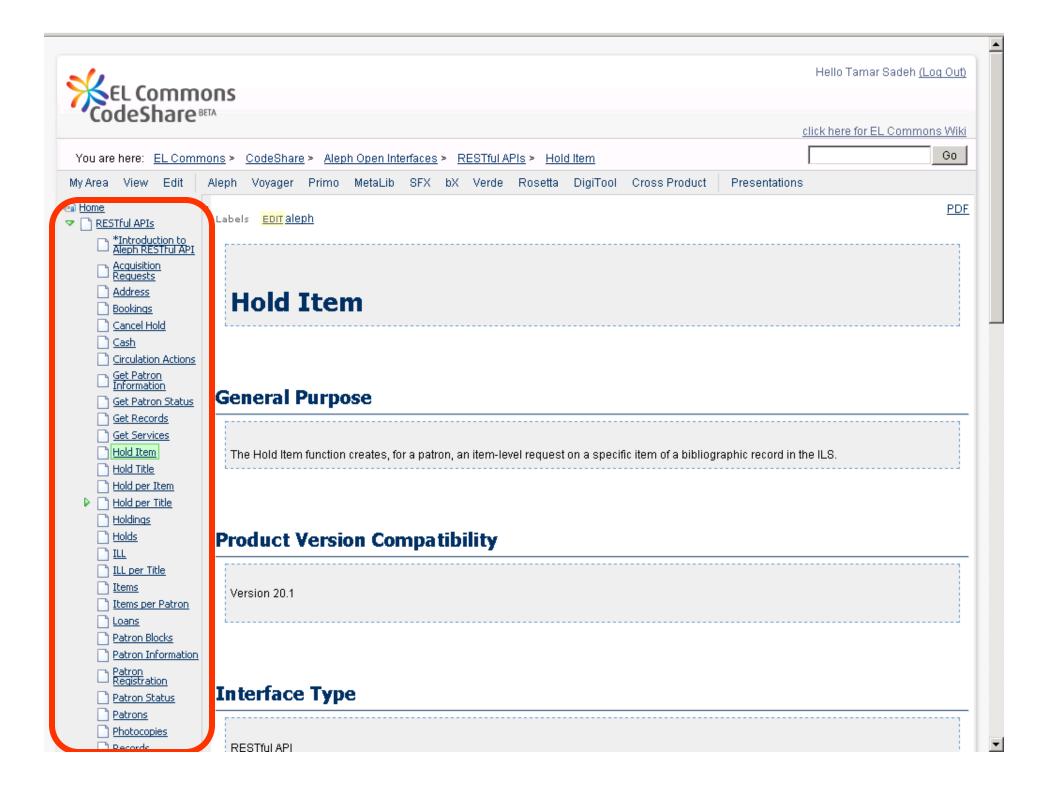
<tagsandreviews xmins="http://com/exlibris/primo/xsd/tagsAndReview/config"> <tags></tags></tagsandreviews>
<mytags></mytags>
<tag></tag>
<value>demotag1</value>
<docid>demo_voyager968394</docid>
<userid>demo</userid>
<status>2</status>

A recent example

- Developing OPAC functionality in version 3 of the Primo discovery and delivery solution
 - RESTful suite of APIs developed for Aleph and Voyager
 - Primo integrates with Aleph and Voyager through the APIs
- APIs adhere to the recommendations of the DLF ILS Discovery Interface task group
- APIs are available through CodeShare



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November 2008, headquarters, Jerusalem

13 developers10 institutions5 countries

March 2009, NA headquarters, Chicago

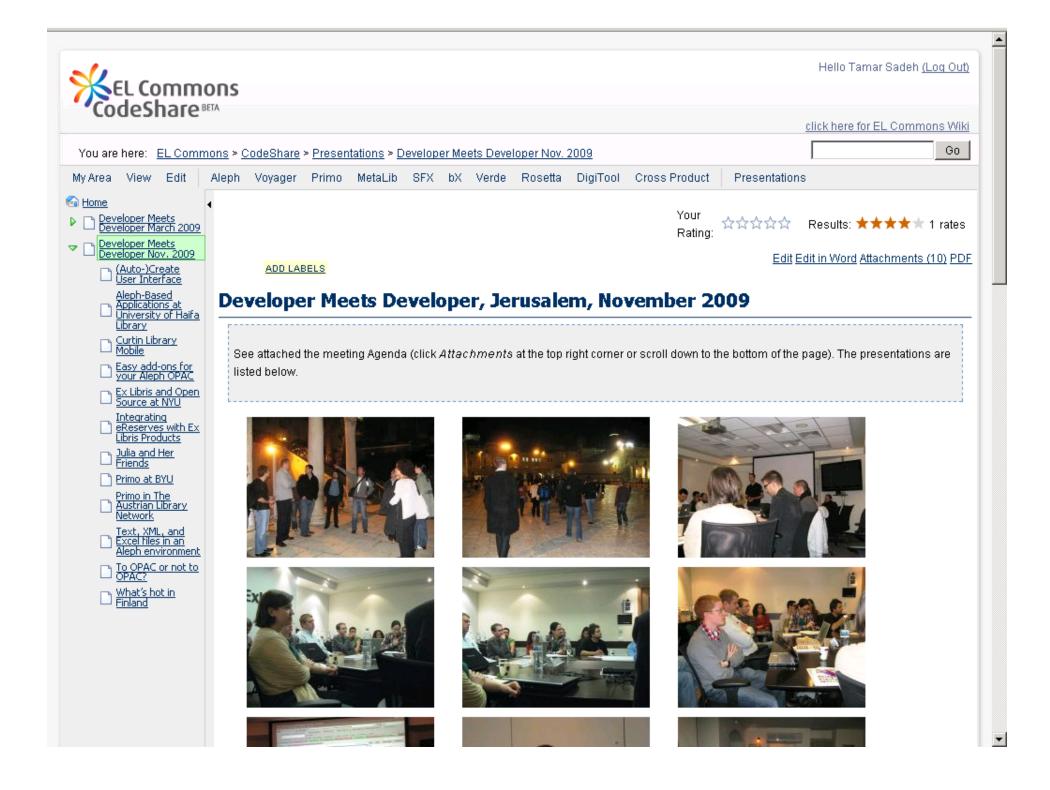
14 developers12 institutions3 countries

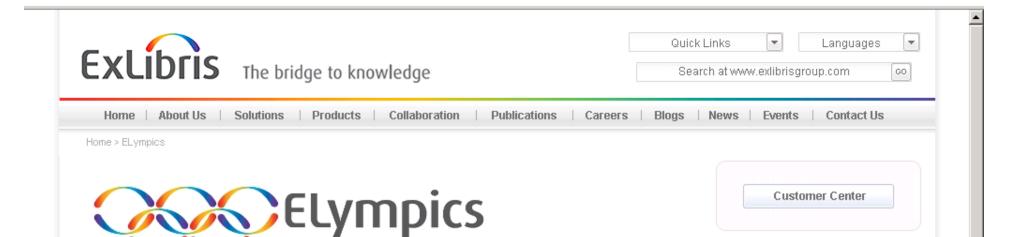
November 2009, headquarters, Jerusalem

12 developers12 institutions9 countries

Developer Meets Developer







Ex Libris is pleased to announce ELympics, the Ex Libris open-platform competition. Prizes will be awarded to the creators of the best code extensions to Ex Libris products during the competition period.

The competition is open to members of any institution deploying any Ex Libris product, and submissions will be accepted on the **EL Commons CodeShare** site from November 9, 2009, to March 31, 2010. The winners will be announced on May 31, 2010.

You may submit any code that extends the functionality of any Ex Libris system to provide additional services to end users or librarians. Particular consideration will be given to extensions that offer library services to end users through mobile devices or through social networking sites; mashup utilities that bring Web resources from various providers to enhance the end-user experience; and extensions whose purpose is to achieve better integration with virtual learning environments.

Panel of Judges

Marshall Breeding, Vanderbilt University

Marshall serves as the director for innovative technologies and research at the Vanderbilt University Libraries and the executive director of the Vanderbilt Television News Archive. He is the founder and editor of the Library Technology Guides Web site (http://www.librarytechnology.org/), a columnist for Computers in Libraries, and a contributing editor to Smart Libraries Newsletter. Marshall regularly writes and speaks on a variety of topics related to library automation.

Sebastian Hammer, IndexData

Sebastian is the president and cofounder of Index Data, a software development company specializing in information retrieval technologies. He has created and released open-source software for 25 years.

Andrew MacEarlane, City University, London.



What does all that mean?





The meaning for a vendor

- We are committed to
 - Design principles
 - Coding standards
 - Comprehensive documentation
 - Continuing maintenance
 - Backwards compatibility
 - Assistance for developers
- We use the interfaces ourselves



Not an easy task, but the right way to go



The meaning for a library

- Libraries gain from
 - Working solutions, to begin with
 - Ongoing maintenance and support
 - Research and vision
- Libraries focus on
 - Providing library services
- Libraries take the lead on
 - Customizing the proprietary solutions
 - Adding or adjusting functionality, as required
 - Easily integrating their services with other systems





The meaning for the library community

- All community members gain
 - Code contributors get the recognition they deserve
 - Exchange of code extends the choice and optimizes efforts
 - Collaborative projects leverage the capabilities of individual members





Open products enable libraries to maximize a product's capabilities for their own environment, leveraging both their expertise and that of a professional vendor.

Furthermore, the fruits of a library's investment serve the community as a whole.





Thank You!

tamar.sadeh@exlibrisgroup.com







Please submit your questions via the Q&A panel

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