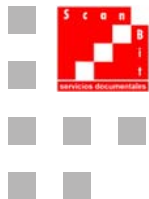




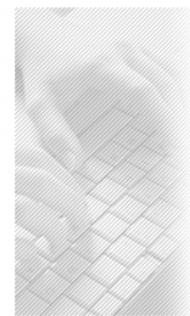
LibriSuite & VuFind: integration with other library application and resources

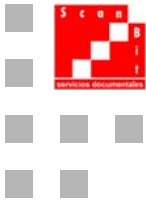
Cristina Garetta, Josu Moreno
cgaretta@scanbit.net / jmoreno@scanbit.net
32th ADLUG Annual Meeting
ARTIUM-Fundación Sancho el Sabio (Vitoria-Gasteiz)
October 16-18, 2013



Overview

1. An approach to interoperability
2. LibriSuite ILS: examples of interoperability
3. Technology to interoperate
4. New challenges and opportunities

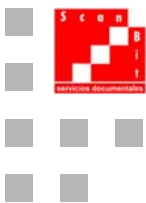
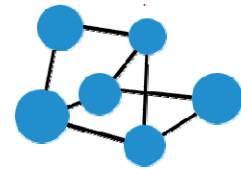




1. An approach to interoperability

■ Interoperability

- ✓ Between 2 or more systems
- ✓ For communicating and exchanging data
- ✓ Same data formats and communication protocols
- ✓ Increases opportunities for open development (open standards)
- ✓ Enables the library to easily integrate new interfaces into an existing environment
- ✓ One source of information for end users



2. LibriSuite ILS: examples of interoperability

■ Remote search (Z39.50)

- ✓ A protocol for searching and retrieving information from remote databases. It is covered by ANSI/NISO standard Z39.50, and ISO standard 23950






2. LibriSuite ILS: examples of interoperability

■ Holds

- ✓ End user is able to place a hold on a checked out item from the OPAC. At the same time, hold is managed by ILS

Holdings

Item #12345
Location DVD 12345
Copy 8178223 ● Checked out until 2013/10/24 [Place hold](#)



2. LibriSuite ILS: examples of interoperability

■ Suggestions

- ✓ Suggestions made by registered users are managed in Acquisitions module

All Fields | All branches | Find | Advanced

Home | Your Account | Checked Out

Your suggestions

Title	Author	Publication Year	ISBN/ISSN	Publisher	Note	Status
Da Vinci Code	Dan Brown	2000				Pending

Your Account

- Favorite
- Checked Out Items
- History and Results
- Suggestions
- Flags





2. LibriSuite ILS: examples of interoperability

- Authority records

- ✓ MARC21 for Authority Records allows cross references

```
=LDR 00361nz 22001450 4500  
=001 000000000044  
=003 CaOOAMICUS  
=005 20130827090126.0  
=008 130827nn\acnnaabn\|||||a\aaa\|||d  
=040 \\\$SCANBIT$bspa  
=100 0\\$aAndreas Capellanus  
=400 0\\$wnnnn$aAndrés el Capellán  
=400 1\\$wnnnn$aCapellán, Andrés el  
=400 1\\$wnnnn$aCapellanus, Andreas
```

Browse Alphabetically starting from

[< Prev](#) [Next >](#)

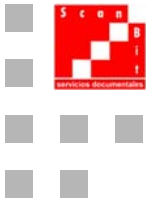
Titles	
Capellanus, Andreas	
Use instead:	
• Andreas Capellanus	1
Capelle, Mireille	



3. Technology to interoperate

- Web Services
- OAI-PMH
- API
- Jquery
- AJAX



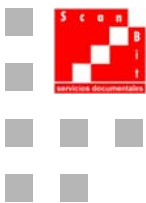


3. Technology to interoperate

- Web services

A Web Service is a software component that communicates with other applications by encoding the XML message and sending this message via standard Internet protocols such as Hypertext Transfer Protocol (HTTP)

It receives requests through a XML formatted message from an application, performs a task and returns a response message also formatted in XML.



3. Technology to interoperate

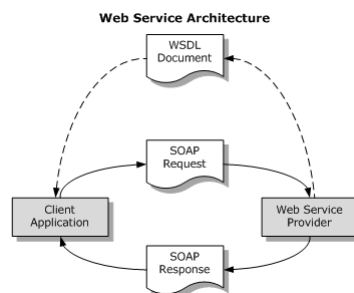
- Web services protocols

Simple Object Access Protocol (SOAP)

Defines the run-time message format that contains the service request and response.

Web Services Description Language (WSDL)

Describes the web service interface, the SOAP message, and how the service is invoked.





3. Technology to interoperate

- OAI-PMH

Is a protocol developed by the Open Archives Initiative.

It is used to harvest (or collect) the metadata descriptions of the records in an archive so that services can be built using metadata from many archives.

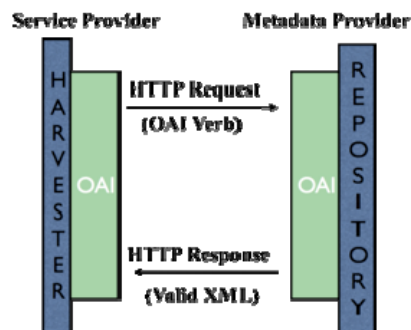
An implementation of OAI-PMH must support representing metadata in Dublin Core, but may also support additional representations.

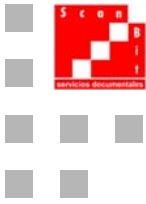
OAI-PMH uses XML over HTTP.



3. Technology to interoperate

- OAI-PMH





3. Technology to interoperate

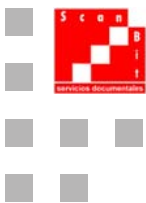
■ API

Acronym for **application programming interface**.

It specifies how some software components should interact with each other. An API can be used to ease the work of programming graphical user interface components.

Many times an API comes in the form of a library that includes specifications for routines, data structures, object classes, and variables.

In some other cases, notably for SOAP and REST services, an API comes as just a specification of remote calls exposed to the API consumers.



3. Technology to interoperate

■ JQuery



jQuery is a multi-browser JavaScript library designed to simplify the client-side scripting of HTML.

Released in January 2006

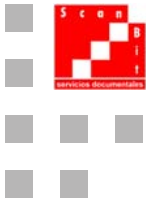
jQuery is the most popular JavaScript library in use today.

jQuery is free, open source software, licensed under the MIT License.

jQuery's syntax is designed to make it easier to navigate a document, select DOM elements, create animations, handle events, and develop Ajax applications.

The modular approach to the jQuery library allows the creation of powerful dynamic web pages and web applications.





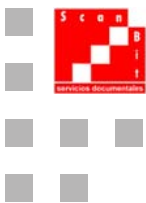
3. Technology to interoperate

- AJAX



Ajax, short for Asynchronous JavaScript And XML is a web development technique for creating interactive applications or RIA (Rich Internet Applications).

These applications run on the client, ie the users browser while maintaining communication with the server asynchronously in the background. In this way you can make changes on pages without recharging, which means increase interactivity, speed and usability in applications.



4. New challenges and opportunities

- Sending SMS





4. New challenges and opportunities

- Sending SMS
 - ✓ Bibliographic records
 - ✓ Hold notices
 - ✓ Overdue notifications
 - ✓ Special messages



4. New challenges and opportunities

- Bookcovers carroussel





4. New challenges and opportunities



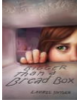
▪ Bookcovers carroussel

- ✓ A bookcover provider is needed
- ✓ Different criteria for presenting news
- ✓ Description offered by a third-party provider (API)

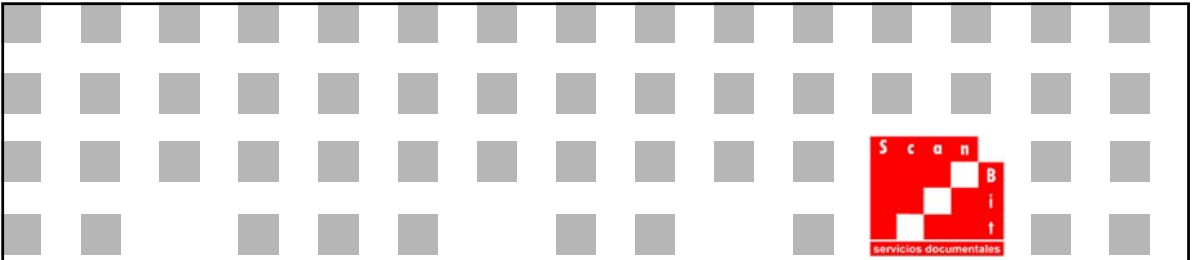


4. New challenges and opportunities

▪ E-book integration

- 2  **Mason Dixon: fourth-grade disasters**
by Mills, Claudia. Published 2011
Kindle eBook, EPUB eBook
Available from OverDrive
2 total copies, 2 are available.
0 people are on the wait list.
☆☆☆☆☆
- 3  **The raven boys**
by Stiefvater, Maggie, 1981- Published 2012
WMA AudioBook, MP3 AudioBook
Available from OverDrive
3 total copies, 3 are available.
0 people are on the wait list.
☆☆☆☆☆
- 4  **Bigger than a bread box**
by Snyder, Laurel. Published 2011
EPUB eBook, Kindle eBook
Available from OverDrive
1 total copy, 1 is available.
0 people are on the wait list.
☆☆☆☆☆





thank you!!

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