A next generation library system for the Sudoc network

Hessischer Bibliothekstag 2013 Bensheim
Über den Wolken. Bibliotheken und die Cloud
Agenda

- ABES: who are we?
- Origins of the project
- What cloud based solutions are supposed to bring to libraries
- Main issues & uncertainties
- Scenarios
- Advice by committees
- What next?
Hessischer Bibliothekstag 2013 Bensheim Über den Wolken Bibliotheken und die Cloud

13. Mai 2013
Bensheim
Parktheater – Stadtbibliothek
dby

Journées ABES

14 et 15 mai 2013
Le Corum
Amphithéâtre Pasteur
Esplanade Charles-de-Gaulle
MONTPELLIER

abes
Agence bibliographique de l’enseignement supérieur

Public Agency
Under the direct authority of Ministry for HE & Research
Founded 1994
75 FTE
Budget 2013 : 60 M€ (excl. staff paid by Ministry)
Licensing: 56 M€
ABES products and services
## ABES networks

<table>
<thead>
<tr>
<th>Network</th>
<th>Number of legal entities</th>
<th>Number of libraries</th>
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</thead>
<tbody>
<tr>
<td>Sudoc</td>
<td>144</td>
<td>1454</td>
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<tr>
<td>Sudoc-PS</td>
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<td>1779</td>
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<td>SUPEB</td>
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<td>332</td>
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<td>Calames</td>
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<td>106</td>
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<tr>
<td>Step</td>
<td>83</td>
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</table>
Cartographie des applications du SI métier de l’ABES

**THESES**
- Theses.fr
  - Portail des thèses françaises
- STAR
  - Dépôt des thèses électroniques
- STEP
  - Sujets de thèses en préparation

**SUDOC**
- PEB
  - Prêt entre bibliothèques
- WinIBW
  - Application de catalogage
- PSI
  - Interface publique de consultation
- SudocMobile
  - Interface publique pour mobile
- CBS
  - Cœur du Sudoc
- APCC
  - Extraction des données (ABES)
- Bibserv / GTD
  - Transferts réguliers

**CALAMES**
- IdRef
  - (Autorités Sudoc)
- WebServices pour IdRef
- Base XML
  - Sudoc
- MicroWebServices (webservices)
- WebServices (Autorités Sudoc)

**BASE XML & API SUDOC**
- API Modification Exemplarisat° auto (ABES)
- Périoscope
- Demandes d’exemplarisation (utilisateurs)
- SELF
  - Interface d’extraction des données (utilisateurs)
- Colodus
  - (à venir)

**Signets des Universités**
- Numes
  - Corpus numérisés
- Licences Nationales
- Archives Elsévier

**Reverse Proxy** (à venir)
Sudoc existing workflow

Sudoc database

Local systems

FTP transfers (every night)

Production
+ new records
+ copy cataloguing
+ holdings

WinIBW
153 local ILS (18 different systems) in SUDOC network (January 2013)
The origins of the project

• Initially: just replacing ageing ILS
• Additional prospects:
  – Poor referencing of e-resources by Sudoc
  – New cloud based systems bursting on the market
  – Replacing CBS
Répartition des notices par support

- Textes imprimés: 94.0%
- Autres: 0.3%
- Partition: 0.4%
- Musique: 0.2%
- Images fixes: 0.2%
- Documents audiovisuels: 0.5%
- Cartes imprimées: 0.6%
- Documents électroniques: 3.5%
What cloud based solutions are supposed to bring to libraries

• You save on technology
• You save on investment
• More efficient data
• You share innovation
• Scalability
Project structure

- A coordinator
- Technical committee
- Steering committee

=> Impact study (published April 2013)
Main issues

- Economic
- Human
- Data: how to retain control
Fig. 2 PART RELATIVE DES COÛTS DE FONCTIONNEMENT, DE PERSONNEL ET D'INVESTISSEMENT

<table>
<thead>
<tr>
<th>Établissement</th>
<th>Coût RH</th>
<th>Coût visible de fonctionnement hors RH</th>
<th>Coût d'investissement</th>
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<td>18</td>
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</table>
## Estimated costs of an existing system in an average French academic library

<table>
<thead>
<tr>
<th>Component</th>
<th>Cost Range</th>
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<tbody>
<tr>
<td><strong>Servers</strong></td>
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<tr>
<td>Initial cost</td>
<td>250 000 – 500 000 €</td>
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<tr>
<td>Depreciation/year (8 year cycle)</td>
<td>31 250 – 62 500 €</td>
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<tr>
<td><strong>Support</strong></td>
<td>30 000 €</td>
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<tr>
<td><strong>Other systems</strong></td>
<td>30 000 – 60 000 €</td>
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<tr>
<td><strong>TOTAL / year</strong></td>
<td>91 250 – 152 500 €</td>
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</tbody>
</table>
The New Library Services Platforms

Alma

Intota

OCLC WorldShare Management Services

Kuali Open Library Environment

SirsiDynix BLUECLOUD SUITE

Open Skies

VTLs
First production release at the beginning of 2011

148 libraries contracted, 52 live

In Europe BibSys cancelled its contract. Live at the beginning of 2013: Tilburg, IE Business School Madrid, IE University Segovia

San Juan Islander (WA) cancelled back to Millenium, Banning district library (CA) cancelled to Koha
Products - ALMA

- First production release at the beginning of 2012
- 4 partners: Boston college, Purdue university, Leuven KU, Princeton
- 42? 70? 100? libraries contracted, 3 in production (University of East London, Boston college, Fort Hays state)
- In Europe Leuven KU is the development partner in charge of collaborative level
- In France many libraries are using ALEPH. Some have a contractual clause for evolving to ALMA.
Products – Kuali OLE

- [http://demo.ole.kuali.org/ole-demo/portal.jsp](http://demo.ole.kuali.org/ole-demo/portal.jsp)
- “Live” RO.6 acquisitions; Q1 2013 R0.8 metadata and licence
- Q2 2013 R1.0 (beta production); Q4 2013 R1.5 (production)
- Other partners: Florida, Maryland, Michigan, Villanova
- Link with UK GOKb project: ERMS, rules engine
- Subscription model based on TLE (total library expenditure): 100K$ or 80K$
Other products

- **INTOTA** by Serial solutions (PROQUEST)
  - First production release (late ?) 2013
  - Completely new
  - Strong integration of back office and discovery
- **SIERRA** by Innovative
  - Millenium + PostgresSQL + Lucene + API
  - Local or cloud
  - Not a truly cloud system and not a new app
- **EBSCO**
  - Gave up the project of a next gen ILS
  - Made an agreement with OCLC : interoperability EDS / WMS
- **Open skies** by VTLS and **Symphony** by SirsiDynix: future products, same logic as Sierra
Uncertainties

• Can these systems manage the consortial level?
• Can these systems manage the national level? (to replace CBS)
• Will they allow ABES to copy data into a mirror base and synchronize it with their own bases?
• Will they allow ABES to re-use the data for other purposes?
• Will they interface with collaborative Knowledge bases such as GOKb?
1/ Zone Institutionnelle
- Alma
- Université A
  - Catalogue
  - Physical Holdings
  - Electronic Holdings
  - Digital Holdings
  - Budgets
  - Requests & Usage
  - Users & Staff
  - Workflows & Config
- Université B
  - Catalogue
  - Physical Holdings
  - Electronic Holdings
  - Digital Holdings
  - Budgets
  - Requests & Usage
  - Users & Staff
  - Workflows & Config

**Indépendance complète**

2/ Zone Collaborative: Catalogue National SUDOC
- Alma
- Zone Collaborative
  - Catalogue
  - Inventory
  - Vendors
  - Licenses
  - ...
- Université A
  - Catalogue
  - Inventory
  - Vendors
  - Licenses
  - ...
- Université B
  - Catalogue
  - Inventory
  - Vendors
  - Licenses
  - ...

**Partage**
- Acquisition
- Gestion des métadonnées
- PEB
- Analyse des données

Système Multi-tiers séparant les données des bibliothèques

3/ Zone Communautaire
- Alma
- Zone Communautaire
  - Community Zone Advisory Group
  - Open Metadata License
  - Governed by Community
  - Ex Libris loads LoC, BL, TEL, Harvard, ...

**Zone centrale de données:**
- Utilisé par la Communauté
- Maintenu par Ex Libris

Zone Communautaire en détail

**Global Pool of authority data**
- Directly usable for cataloging
- Ex Libris loads LoC, MESH, GND, BNF, ...

**E-Ressources**
- Package & Source info
- Ex Libris KB Team

**Catalogue communautaire**
- Catalogue des fournisseurs
- Catalogue des autorités

**Monographs**
- EOD
- Ex Libris KB Team
Existing products and services

- sudoc
- theses.fr
- star (dépôt légal des thèses électroniques)
- step (signalement des thèses en préparation)
- autorités sudoc
- Signets
- numes
- licences nationales
- FR
- calames
Existing products and services
Scénario 1: Migrating Sudoc and as many libraries as possible to one cloud based system

A) Pilot libraries migrate to the cloud system
   - ABES supports their migration (group order, data migration, training, integration into university information system)
   - Those libraries catalog in the cloud; synchronization between their production in the cloud and production by other Sudoc libraries in CBS

B) ABES & all remaining Sudoc libraries migrate to the cloud for cataloguing (within 2 year period)

C) Other libraries gradually join the cloud for all local functions
Scenario 2: if the cloud system is unable to replace CBS, keep a national cataloguing service

A) Pilot libraries migrate to the cloud system
   - ABES supports their migration (group order, data migration, training, integration into university information system)
   - Those libraries continue to catalog into CBS
   - ABES continues regular transfers to the cloud system (just as to other ILS)
   - Those libraries and ABES assess the metadata production module of the cloud system and its ability to replace CBS

B) If assessment is positive, back to stage B of scenario 1 (ABES & all remaining Sudoc libraries migrates to the cloud for cataloguing)
   If assessment is negative, CBS is kept for cataloguing... ABES tries to improve workflow between CBS and cloud system ; Evolution of SUDOC (adding a KB)

C) Other libraries gradually join the cloud for all local functions
Scenario 3: ABES accepts several cloud systems and develops a national shared cataloguing service

A) Pilot libraries migrate to several different cloud systems
   – ABES supports their migration (group order, data migration, training, integration into university information system)
   – ABES integrates metadata production in CBS into the workflow of these cloud systems
   – Libraries continue to catalog in CBS from their cloud environment

B) Other libraries gradually join the cloud for all local functions
Advice given by committees

- Scientific committee
- Technical committee
- Steering committee
What next?

• Impact study published on website and open to comments (4 in a month!)
• Main professional organization (ADBU) has published a summary of the impact study
• **Final decision to be taken by Board of directors on 31 May**
Sharing with you!

• We are eager to **share experiences** with you
• German projects relating to cloud based infrastructure:
  – Hebis
  – CIB project (Cloudbasierte Infrastruktur für Bibliotheksdaten).
More reading


• Impact study (in French)
  http://www.abes.fr/Media/Fichiers/Projet-en-cours/Etude-d-impact-SGBM

• Maurits van der Graaf (Pleiade Management and Consultancy BV): The ABES Discovery study. A study into three scenarios for a National Webscale Discovery Tool for scholarly e-content
  http://www.abes.fr/Media/Fichiers/Projet-en-cours/Etude-d-impact-SGBM
Jean Bernon - The French Union Catalog of Higher Education and Research, SUDOC, towards National next gen ILS

Metadata Hub: import, enrich & redistribute
In development

Web linked data
institutional information systems

National enrich & distribute tool

Resource discovery tools at a national level

Shared Management system: in development

SUDOC: national catalogue of print collections HE institutes

Discovery tool for e-journals and e-books: to be developed

Calames/Numes/Signets des Universités: discovery of various sources for HE institutes

Print collections at HE institutes

ISTEX: platform for national licensed e-content
In development

Other e-content licensed by individual HE institutes

Content
Cohesive development of components of national library infrastructure

<table>
<thead>
<tr>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
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</thead>
<tbody>
<tr>
<td>Development Prototype Metadata Hub</td>
<td>Metadata Hub enrichment and redistribution of metadata of selected subsets scholarly literature to discovery systems</td>
<td></td>
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<tr>
<td>ABES Discovery study</td>
<td>Set-up and prototype national KB</td>
<td>Further development of National Knowledgebase data collection</td>
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<tr>
<td></td>
<td></td>
<td>• at a national level (Couperin, French HE libraries)</td>
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<td>• at an international level (GOKb participants)</td>
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<tr>
<td>Prototype National Locator</td>
<td>Further development of national locator service and its implementation in discovery systems</td>
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<tr>
<td>Development functional specifications for ILS in the cloud</td>
<td>Tender &amp; selection</td>
<td>Pilot group of HE libraries implement ILS in the cloud</td>
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<tr>
<td>Selection content for national licenses</td>
<td>Development ISTEX platform for national licenses</td>
<td>Implementation ISTEX platform</td>
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</tbody>
</table>

Clear perspective on further migration to the cloud with regard to:

- Other HE libraries
- Knowledgebase
- Locator service
- SUDOC
- A national discovery system in the cloud