

CBS and WorldCat: Strategic Directions

Hellenic Academic Libraries Link
30th September 2007

Janifer Gatenby, Strategic Research

At the heart of your information



OCLC PICA

Agenda

- CBS Currently
 - Role of CBS
 - Performance and Reliability
 - Implementations; partners; implementation projects
 - Data import , export, formats
 - Character encodings, UNICODE
 - Standards
 - Models
- Integration with WorldCat and VDX
- Future Strategy
 - Role of partners – Job management
 - Grid services; WorldCat API – Web 2.0
- Summary

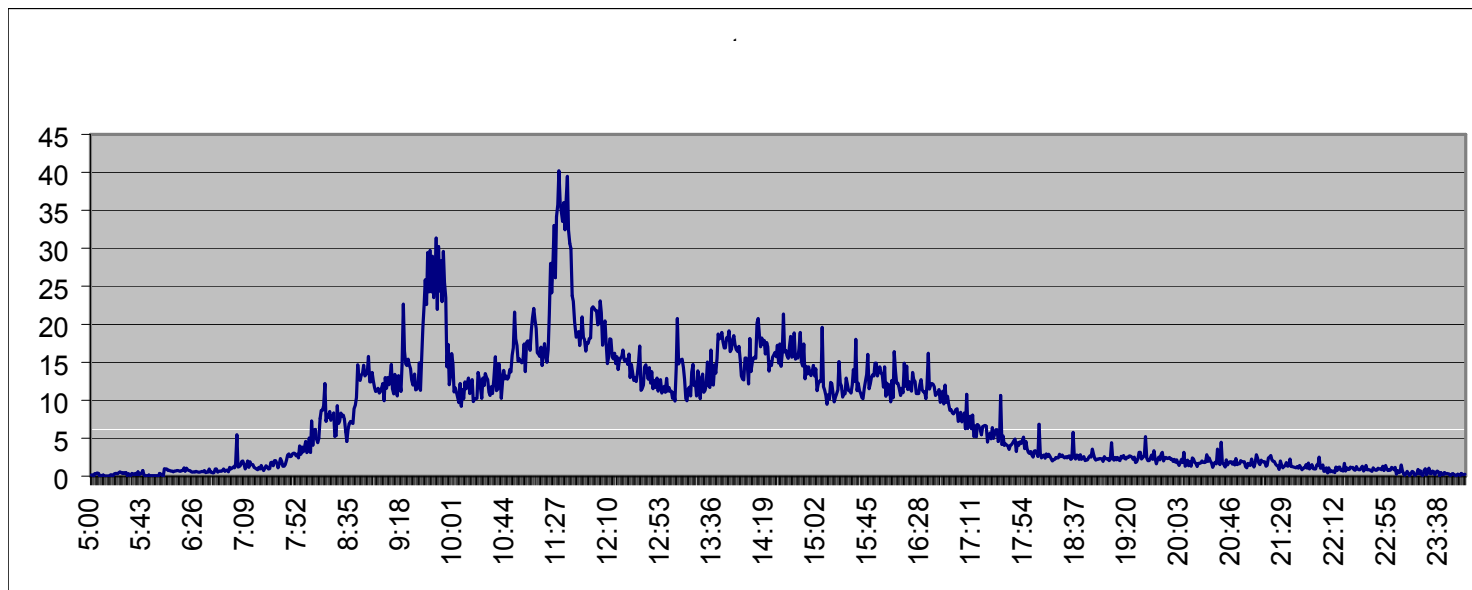
CBS software

Centraal Bibliotheek System

- Designed for union catalogues
 - Group level; importance of defining data standards, scripts
- Generic
- Evolving
 - GUM project (2000-2002) conversion to UNIX (CBS4)
 - Recently re-engineered
 - UNICODE project (2003-2004)

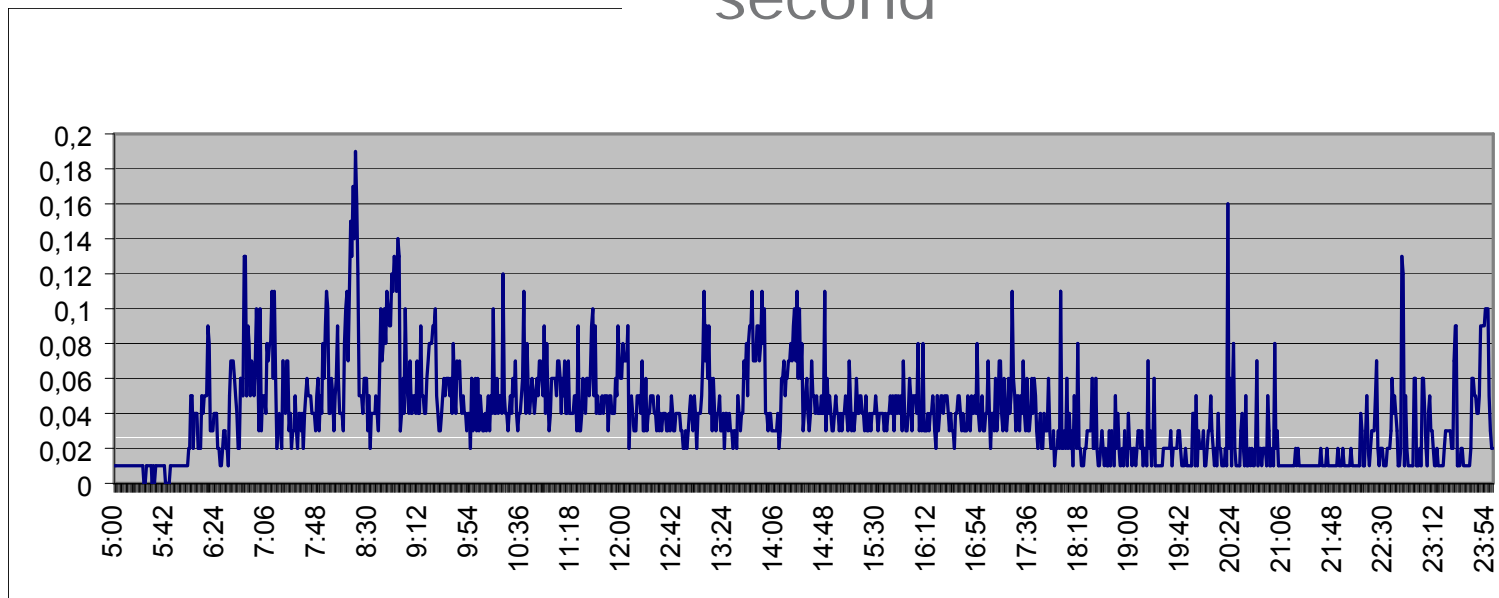
Robust

- All new versions implemented on Dutch union catalogue first
- Dutch union catalogue and Unity UK – constantly monitored
 - Peak 40 transactions per second
- NLA: only 2 instances of being down in 2 years; never slow








Speed

- av. <math><0.1 - 0.4</math> secs
- Index re-build: 2 hours for 12 million records
- Highly tuned batch load
 - 10,000 records per hour (full matching and merging)
 - 30,000 records per hour (identifier matching and merging)
 - 50,000 records per hour (no matching and merging)
- Real time export: 80 records a second



CBS union catalogues

Country	Organisation	Name	Records in M	Copies in M	Sim. Users
	OCLC PICA	GGC-NCC	14	25	900
	GBV	GVK	25	50	1500
	DDB	Iltis	9	16	400
	HeBIS	HeBIS	11	16	300
	BSZ	SWB	13	30	750
	Abes	SUDOC	8	19	900
	NLA	NBU	17	40	450
	OCLC PICA	UnityUK	5	40	?

Flexibility

- Multiple format
 - Cataloguing format – MARC21, UNIMARC, PICAMARC, MAB

- FCV = File Format Converter

MARCXML

- Input conversions
- Output conversions
- Presentations

MarcXchange

ONIX for Books

- Labelled formatting; ISBD; Brief presentations

- Tool in indexing
- Centre of UNIMARC for OCLC worldwide



CBS – Integration into Local Environment

					
Cataloguing dbase	CBS / PSI	CBS / PSI	CBS / PSI	CBS / PSI	CBS / PSI
Public version	CBS / PSI	CBS / PSI	CBS / PSI	Teratext Lucene	ZPortal CBS/PSI
Authentication	CBS / PSI	CBS / PSI	CBS / PSI	Via LDAP	CBS / PSI
Resource Delivery	CBS	CBS	CBS	VDX	VDX
Extras	**DAI	Yes	Yes	Yes	

CBS – ILS interoperation

- GGC / NCC, GBV, DNB, HeBIS – LBS
- BSZ – SunRise, Dynix, Aleph ++
- France, Australia – Innovative, Dynix, Aleph, Infor ++
- UK – Dynix, Talis, Infor, ++

Any system supporting the standard interfaces – significant potential for open source ILS systems

Online Contribution to CBS

- Windows client WinIBW
- Web client
 - Holdings
 - Record capture
 - Simple new record input
- Z39.50 / UCP
 - From Aleph systems in Germany
- SRU update
 - Real time update from an alternative interface
 - Q1 2006



International Standard Maintenance Agency **Z39.50** The Library of Congress Network Development & MARC Standards Office

SRU Version 1.1 13th February 2004

SRU: SEARCH / RETRIEVE VIA URL

Adding a Holding

NATIONAL LIBRARY of AUSTRALIA



libraries australia search

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For this record:



Title: Hē zōē : anekdota / Stelios Dēmas.

Author: Stelios. Dēmas

Year: 2005

ISBN: 0-9751607-7-X

new holding

Call no.

Local system number

Serial volume no.s

Serial dates

Completeness note

Referral note

Retention period

URI

For this record:

Adding a record

NATIONAL LIBRARY of AUSTRALIA

Administration | Login | Logout | About | Contact Us | Libraries Australia | Help

libraries australia search

Welcome OCLCPICA (shared)

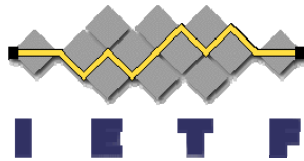
Search | Advanced Search | Browse Terms | Search History | Saved Records | Saved Queries | **Add Record**

Add Record

<u>Title</u>	<input type="text"/>	Filing 0
<u>Medium</u>	Not applicable	
<u>Edition</u>	<input type="text"/>	
<u>Publication Place</u>	<input type="text"/>	
<u>Publisher</u>	<input type="text"/>	
<u>Publication Date</u>	<input type="text"/>	
<u>Physical Description</u>	<input type="text"/>	
<u>Standard No.</u>	ISBN <input type="text"/>	<input type="button" value="Add"/> <input type="button" value="Remove"/>
<u>Note</u>	<input type="text"/>	<input type="button" value="Add"/> <input type="button" value="Remove"/>
<u>Summary</u>	<input type="text"/>	
<u>Subject</u>	<input type="text"/>	<input type="button" value="Add"/> <input type="button" value="Remove"/>

Batch Contribution to CBS

- FTP



- Files sent to FTP server associated with CBS (PUSH)

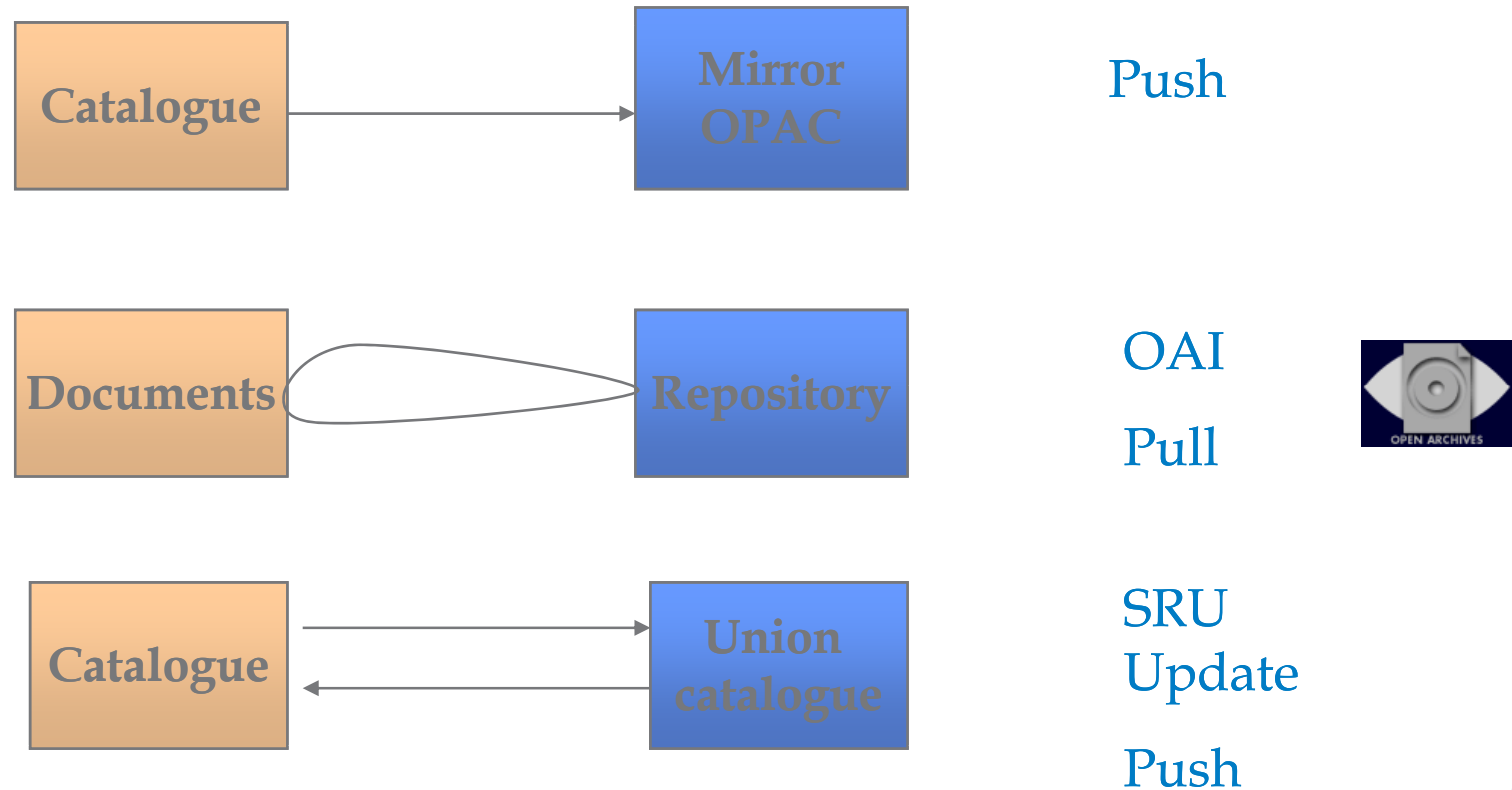
- OAI PMH



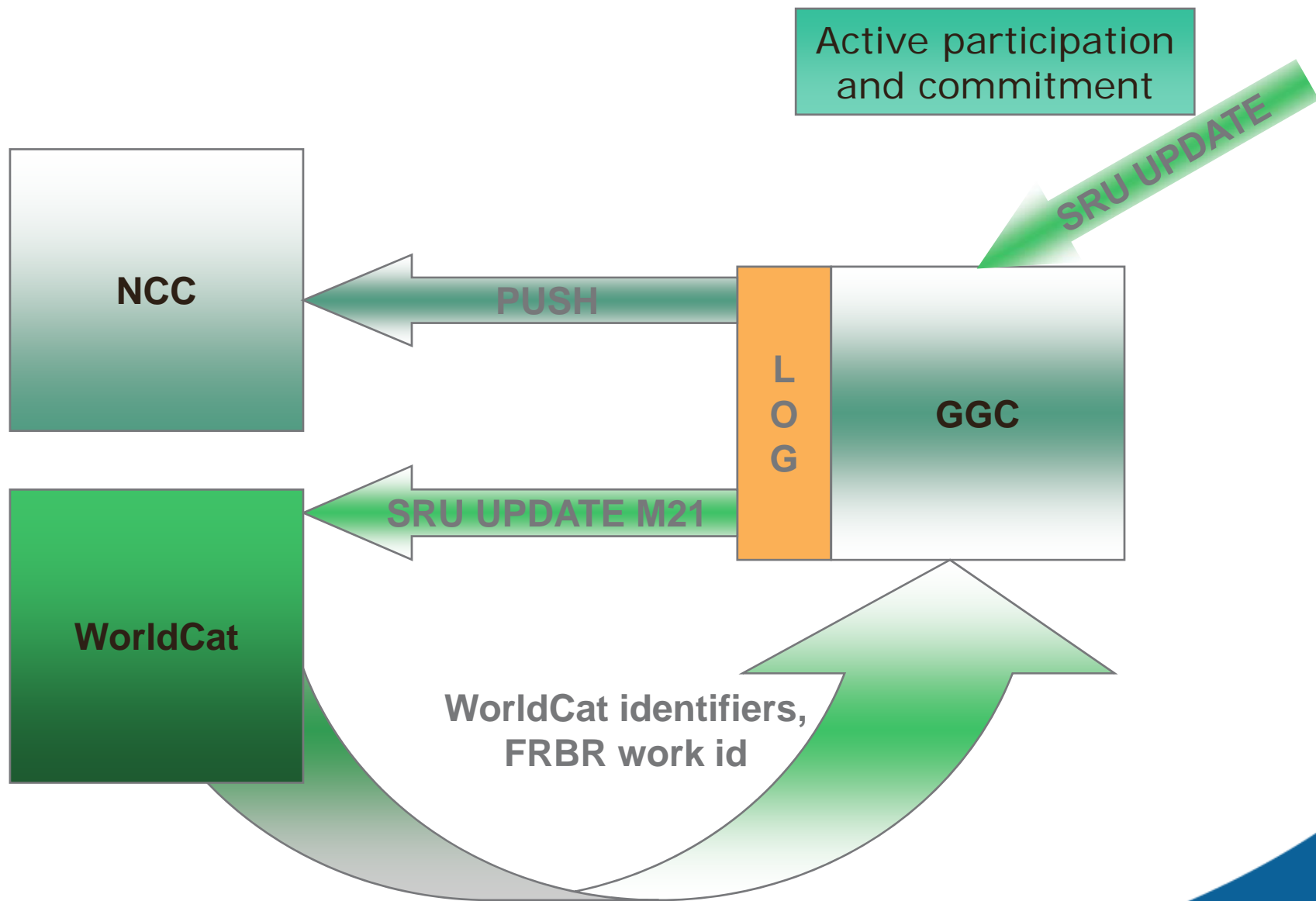
- CBS OAI server enacts transactions to retrieve pre-defined sets of data from another database (PULL)

- Email / SMTP

External Output



SRU Version 1.1 13th February 2004
SRU: SEARCH / RETRIEVE VIA URL



CBS – Enquiry and Resource Delivery



- OpenURL



Active participation
and commitment

UNICODE

Arabic in SUDOC Cyrillic in SUDOC

abes

recherche (et) ▼ Mots du titre ▼ trié par pertinence ▼

From: Janifer Gatenby
Sent: 13 July 2006 07:13
To: ALL - NL - Leiden; ALL - AU; Robin Murray; Norbert Weinberger
Subject: **NLA and Thai script - some good news**

Recherche avancée

Recherche simple

Recherche sujet

Suivi Peb

Sortir

-
-
- Janifer

Votre commande était:
recherche (et) (Mots du titre) iliad

Voici 427 résultats.
Voici résultat 160

Numéro de notice : 005501415

Titre : Ilyāyat Homerus, miḡarrabāt nazmān, wa ʿalayhā ʿārn tārihi adabī, wa dyānasa dāst Rōma qadīmat fī Homerus wa šīrihi, wa ādāb al-ḡaynān wal-ḡaynān biḡarḡ Sulaymān al-Bustānī / Œuvres de l'Iliade / d'Homère, traduite en vers arabes ... par Sulaymān al-Bustānī.

Alphabet du titre : Tabʿat ḡadīdat latin
Auteur(s) : Homère (08..?-08..? av. J.-C.)
al-@Bustānī, Sulaymān
Date(s) : 1994
Langue(s) : arabe
Pays : Liban
Editeur(s) : [Bayrūy] : [s.l.], 1994
Description : 2 vol. (1260 p.) ; 25 cm

Notes : Texte en langue arabe
Date(s) : 1993

◀ Précédent Suivant ▶

UNICODE Greek in Libraries Australia

Showing : 13 of 40



Jump to:



[Get this item](#)

Record Id: 26721201 (Australian Library Collec

Author: [Dēmas, Stelios.](#)
[Δήμας, Στέλιος.](#)

Title: Hē zōē : anekdota / Stelios Dēmas.
Η ζωή ανεκδοτα / Στελιος Δήμας.

Also Titled: Zōē mou
Ζωή μου

Published: East kew, Vic. : Tsonis Publishing, c

Description: 77 p. ; 21 cm.

ISBN: 097516077X

Dewey Number: [889.734](#)

Subjects: [Greek wit and humor. Modern.](#)

Language: Greek, Modern (1453-)

Libraries that have this item: [National Library of Australia \(ANL\)](#) 3510537 N 889.734 D372zo
[State Library of Victoria \(VSL\)](#) 1263698 LD held

[Dēmas, Stelios.](#)

[Δήμας, Στέλιος.](#)

Hē zōē : anekdota / Stelios Dēmas.

Η ζωή ανεκδοτα / Στελιος Δήμας.

Zōē mou

Ζωή μου

UNICODE - Transliteration

The cataloguer has typed:

700#1\$6a01\$aПушкин\$bАлександр Сергеевич\$f1799-1837

700 #1\$6a01\$7ba

The \$7 in the second tag 700 is an instruction for generating the transliteration; the system should return:

700 #1\$6a01\$aПушкин\$bАлександр Сергеевич\$f1799-1837

700 #1\$6a01\$7ba\$aPuškin\$bAleksandr Sergeevič\$f1799-1837

CBS and WorldCat

- Increase exposure
 - Presenting library resources
- Access to enriched data
 - Linked manifestations, works, identities
 - Mined data – audience level, holdings count (rarity)
 - Lib 2.0 data – facets, social network data
- Analysis services
 - Collection analysis
 - Locate related collections around the world
- Delivery services
 - Library Policy registry, Resolver & OPAC registry
 - International resources

Open WorldCat

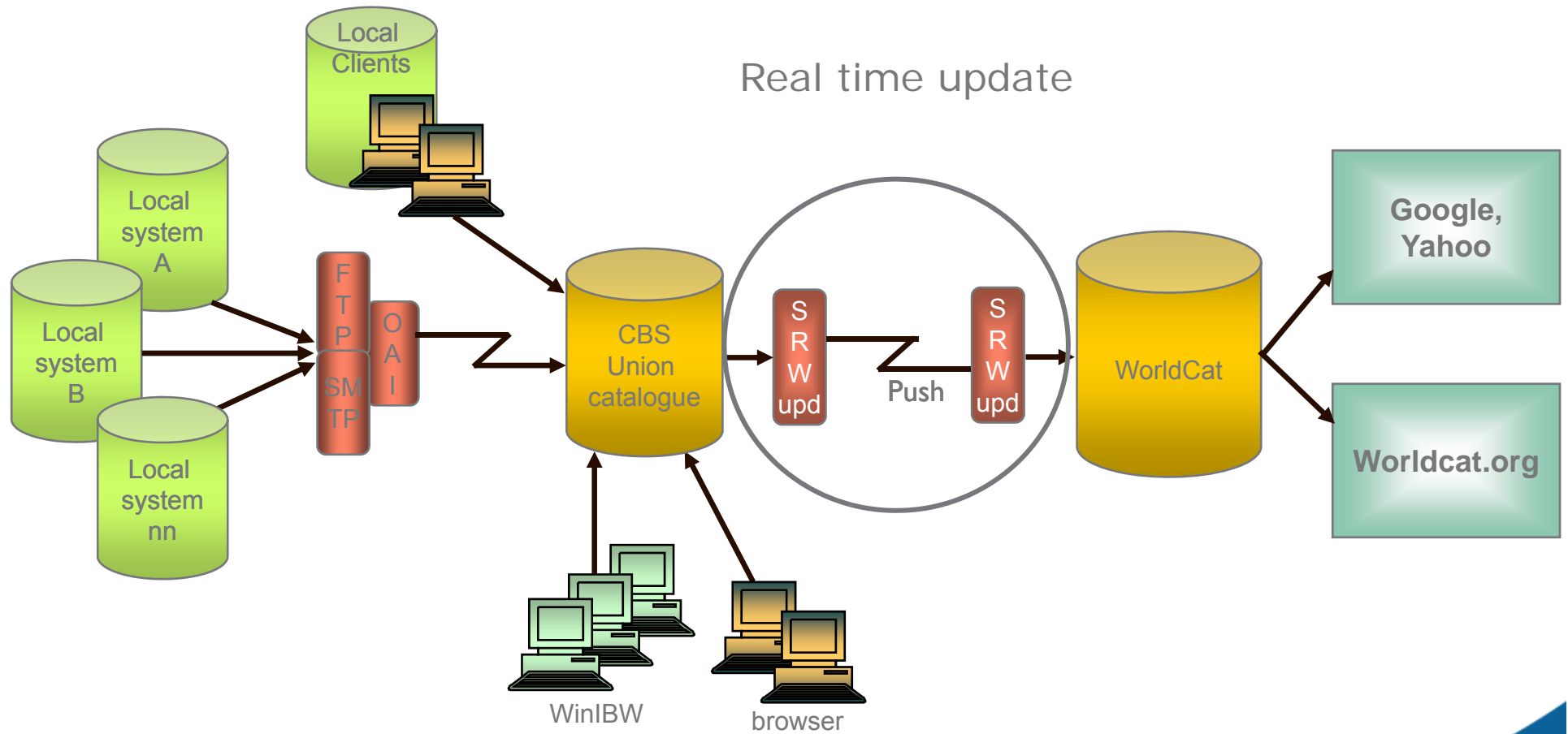


Worldcat.org statistics

- 14 million hits a month
 - 88 million records, 30 million articles
- 1 million hits a month from Google Books
- 800,000 links to OPAC a month (up 360% in one year)



CBS and WorldCat

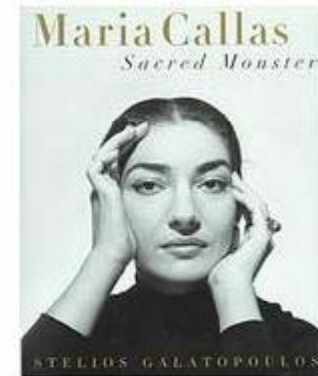


Discovery and Exposure

Maria Callas : sacred monster

by [Stelios Galatopoulos](#)

Type: Book
Language: English
Publisher: New York : Simon & Schuster, ©1998.
ISBN: 0684859858 9780684859859
OCLC: 40967710
Related Subjects: [Callas, Maria](#) | [Sopranos \(Singers\) -- Biography](#)
Editions: [3 Editions](#)
Citations: [Cite this Item](#) | [Export to EndNote](#) | [Export to RefWorks](#)



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netherlands

1. [Bibliotheek Rotterdam](#) Rotterdam, 3011 PV Netherlands

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[Maria Callas](#)

FRBR – Alternative editions

Libraries Details Subjects **Editions** Reviews


Other Editions

Displaying Editions 1 - 3 out of 3


-  [Maria Callas : sacred monster](#)
by Stelios Galatopoulos
Language: English Type:  Book
Publisher: New York : Simon & Schuster, ©1998.
-  [Maria Callas : sacred monster](#)
by Stelios Galatopoulos
Language: English Type:  Book
Publisher: London : Fourth Estate, 1998.
-  [Maria Callas.](#)
by Stelios Galatopoulos
Language: English Type:  Book
Publisher: London : Fourth Estate, 1999.

Displaying Editions 1 - 3 out of 3

FRBR in CBS


 181. [The unknown Callas : the Greek years](#)
Petsalis-Diomidis, Nicholas / Amadeus Press / 2001


 182. [Maria Callas : diaries of a friendship](#)
Sutherland, Robert / Constable / 1999

 183. [Maria Callas à l'Opéra de Paris](#)
Chœurs et orchestre de l'Opéra / 1987

 184. [Callas : portrait of a Prima Donna](#)
Jellinek, George / Dover / 1986

 2 identical titles

 185. [Donizetti, Lucia di Lammermoor, Calla](#)
Donizetti, Gaetano / s.n. / 1986

 186. [Maria Callas : Rarities - interviews - rel](#)
Callas, Maria / s.n. / 19XX

 187. [Maria Callas : een leven als een Griekse tragedie : biografie](#)
Zoggel, Karl H. van / Tirion / 2003

results 1

identical titles of [Callas](#) | 2 hits



1. [Callas : portrait of a Prima Donna](#)
Jellinek, George / Dover / 1986



2. [Callas : portrait of a Prima Donna](#)
Jellinek, George / Ziff-Davis / 1960

534667 [2]

Faceted Searching Sorting

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abby williams hill collection

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Feedback

Search results for 'abby williams hill'

Sort by: Relevance

Results 1-10 of about 56 (.24 seconds)

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Refine Your Search

Author

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[Angus Clarke](#) (2)
[Edward S Feldman](#) (1)
[Edan Milton Hughes](#) (1)
[Mary Sudar](#) (1)
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[Medicine](#) (3)
[Education](#) (1)
[History & Auxiliary ...](#) (1)

Format










[Internet Resource](#) (45)
[Book](#) (8)
[Visual Material](#) (2)
[Article](#) (1)

Language

[English](#) (55)

Year

[2006](#) (1)
[2002](#) (1)
[2000](#) (2)

- [Abby Williams Hill and the lure of the West](#)**
by Ronald Fields; Abby Williams Hill; Washington State Historical Society. Museum.
Language: English Type:  Book
Publisher: [Tacoma, WA] : Washington State Historical Society, 1989.
- [Abby Williams Hill : progressive and painter](#)**
by Mary Sudar
Language: English Type:  Book : Thesis/dissertation/manuscript  Archival Material
Publisher: 1983.
- [Abby Williams Hill, 1861-1943 : the Hill collection from the University of Puget Sound, Tacoma, Washington.](#)**
by Abby Williams Hill; University of Puget Sound.
Language: English Type:  Book
Publisher: [Tacoma, Wash. : University of Puget Sound, 1979]
- [The Abby Hill collection](#)**
by Abby Williams Hill; University of Puget Sound.
Language: English Type:  Internet Resource : 2-D image  Computer File  Continuously Updated Resource  Visual Material
Publisher: Tacoma, WA : The University of Puget Sound
- [Niguel Canyon: wild mustard](#)**
In: Independent spirits.
Language: No Linguistic Content Type:  Visual Material : Slide
Publisher: 2000.
- [Hill, Abby Rhoda Williams.](#)**

Audience Level and Rareness

Workset ID: 11574134

Title: Basic research methods for librarians /

Author: Powell, Ronald R.

Number of Manifestations: 6

Holdings in WorldCat: 1505

Holdings used for Audience Level: 1382

Audience Level: 0.7

Relative Audience Level:

Schooler [Progress Bar] Scholar

43% of all works in WorldCat have a higher Audience Level.

Hide Manifestations

OCLC #	Language	Publication Date	Number of Holdings	Holdings used for Audience Level
11574134	English	1985	442	414
55846881	English	2004	370	346
37437459	English	1997	344	307
23732509	English	1991	343	312
56639747	English	2004	5	3
38945949	English	1991	1	0

WorldCat Identities

more ▾

Spanish (07)
French (57)
Italian (20)

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Constantine P. Cavafy

From Wikipedia, the free encyclopedia

Constantine P. Cavafy, also known as **Konstantin** or **Konstantinos Petrou Kavafis**, or **Kavaphes** (Greek **Κωνσταντίνος Π. Καβάφης**) (April 29, 1863 – April 29, 1933) was a major Greek poet who worked as a journalist and civil servant. He has been called a skeptic and a neo-pagan. In his poetry he examines critically some aspects of Christianity, patriotism, and homosexuality, though he was not always comfortable with his role as a **nonconformist**. He published 154 poems; dozens more remained incomplete or in sketch form. His most important poetry was written after his fortieth birthday.

Contents^[hide]


- Biography
- Work
 - Historical poems
 - Sensual poems
 - Philosophical poems
- Bibliography
- Notes
- External links

Biography


[edit]


Cavafy was born in 1863 in Alexandria, Egypt, to Greek parents, and was baptized into the Greek Orthodox Church. His father was a prosperous importer-exporter who had lived in England in earlier years and acquired British nationality. After his

Constantine P. Cavafy



Cavafy, around 1900 in Alexandria, Egypt

Born: April 29, 1863
 Alexandria, Egypt

Died: April 29, 1933 (aged 70)
 Alexandria, Egypt

1863-1933

Collection Analysis: Gestalt effect

FirstSearch: WorldCat Collection Analysis: Analysis Results (Staff View) - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Wordpad Find Bluetooth

Address http://wcademo.oclc.org/WebZ/F5WCASetAnalysisOrder?sessionId=linuxdemo.prod.oclc.org-42694-ewpb6clo-e4tw9w:entitypagenum=5:0:wcacurrenttab=uniqueness:wc Go Links

Click the icon to graph a row by the Column values

Click the icon to expand a row

Click the icon to graph a row by the Column values

Databases Searching **Collection Analysis** My Account Options Comments Exit Hide tips

Data to Analyze Analysis Results Limit Analysis Change Analysis Go to page

Export News Help

Data to Analyze: **COLLECTION ANALYSIS DEMO**
 Column Values: **Uniqueness**
 Row Expansion Order: **Library > Division > Language > Format > Audience**
 Limits: (No Limits Selected)

Publication Date Overlap **Uniqueness**

Display results as: Number only Data to Analyze: COLLECTION ANALYSIS DEMO

	Totals	Unique	Shared by 2	Shared by 3	Shared by 4	Shared by 5	Shared by 6	Shared by 7	Shared by 8	Shared by 9
Libraries Totals by "Library":										
BENEDICTINE UNIV (ICG)	110770	40185	28413	16904	10566	6812	4255	2303	1043	289
COLUMBIA COL (IBZ)	262810	143275	62402	28046	14284	7696	3926	1963	929	289
ELMHURST COL (ICV)	187512	65828	44526	33004	21283	12182	6364	2912	1124	289
ILLINOIS WESLEYAN UNIV (ICO)	230524	75339	63278	41969	25075	13675	6740	2999	1160	289
LAKE FOREST COL (IAK)	188469	57893	54514	33016	20873	11823	6135	2816	1110	289
MONMOUTH COL (ICL)	136062	44730	34189	22575	15610	9601	5347	2622	1099	289
NORTHERN ILLINOIS UNIV (JNA)	1547570	1197423	204559	79387	36828	17024	7665	3198	1197	289
TRINITY CHRISTIAN COL (A03)	70147	19778	15391	11917	9377	6444	3820	2138	993	289
WILLIAM RAINEY HARPER COL (JDD)	121118	51315	26824	17240	11256	6893	4138	2170	993	289

Session timeout: 5:35 Internet

Delivery Services

Enterprise product architecture



Global

- WorldCat Resource Sharing
- International Fee Management
- International Registry
- Super Resolver

- Local Holdings
- Update global registry
- Link to OPAC for availability
- URL resolver

- Regional Delivery Systems
- Accept Request Transfer Message
- Use Registry & Fee Management

Registry use: links to Full Text (via OpenURL)

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Heredity of hair-length in guinea-pigs and its bearing on the theory of pure game
by [William E Castle](#); [Alexander Forbes](#)

Language: English **Type:** Book
Publisher: Washington, D.C. : Carnegie Institution of
OCLC: 3267945

Subjects: [Heredity.](#) [Guinea pigs.](#)

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for all 3 editions [Show libraries for just this edition](#)

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1. [Université Libre de Bruxelles – Bibliothèque](#)

Other Formats: [Article](#)

Services: [Library Information](#) [Ask a librarian](#)

[[livre]]
Auteur: Castle, William
Titre: Heredity of hair-length in guinea-pigs and its bearing on the theory of pure gametes
Date: 1906
*Ci-dessous, vous trouverez un **choix** de ressources qui vous permettront peut-être de découvrir des informations supplémentaires en rapport avec cette notice bibliographique.*

Liens de base [Autres types de liens](#)

Localiser le document dans une bibliothèque (sur base du titre)

- Catalogue de l'ULB
- Catalogue Collectif de Belgique

Commander le document au service du prêt inter-Bibliothèques

- PIBel

Découvrir des documents rédigés par le même auteur

- Editions de l'Université libre de Bruxelles
- Catalogue Collectif de Belgique (toutes disciplines)
- Article DataBase - ADB (toutes disciplines)
- Google Scholar

Découvrir des informations à propos de l'auteur

- Google
- Vivísimo

Rechercher des informations dans les moteurs de recherche (sur base des mots du titre)

- Google
- Vivísimo

[Contact](#) [Aide](#)

Registry Machine Level Services



2. Kids Speaking Up for Kids: Advocacy by [Children, for Children](#) (EJ762944)

Author(s): Zyamunt-Fillwalk, Eva; Staley, Lynn; Kumar, Rashmi; Lin, Cecilia Lingfen; Moore, Catherine; Salakaya, Manana; Szecsi, Tunde

Pub Date: 2007-00-00

Pub Type(s): Journal Articles;

Peer-Reviewed: Yes

Source: Childhood Education, v83 n4 p199 Sum 2007

Descriptors: Foreign Countries; Advocacy; Diaries; Childrens Rights; Program Descriptions; [Children](#); Change; Art Products; Values; Spiritual Development; Individual Development

Abstract: This article describes a project called "Kids Speaking Up for Kids: Advocacy by [Children](#), for [Children](#)". The project sought to collect stories of child advocacy--ways in which [children](#) were working on behalf of other [children](#).

Full-Text Availability Options:
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Results for "[Title=\(polski jezyk\)](#)" in [SBN Union Catalog](#) (1 hits)
 View [Results Overview >>](#)

Table View [Brief View](#) Jump to #: [▶](#)

1- 1 of 1 records <Previous Next>

No.	Author	Title	Type	Year	Database	Action
1	Butcher, Anna	*Polski jezyk biznesu dla cudzoziemcow / Anna Butcher, Anna Dunin-Dudkowska	Monografia	1998	SBN Union Catalog	+ MPG SFX



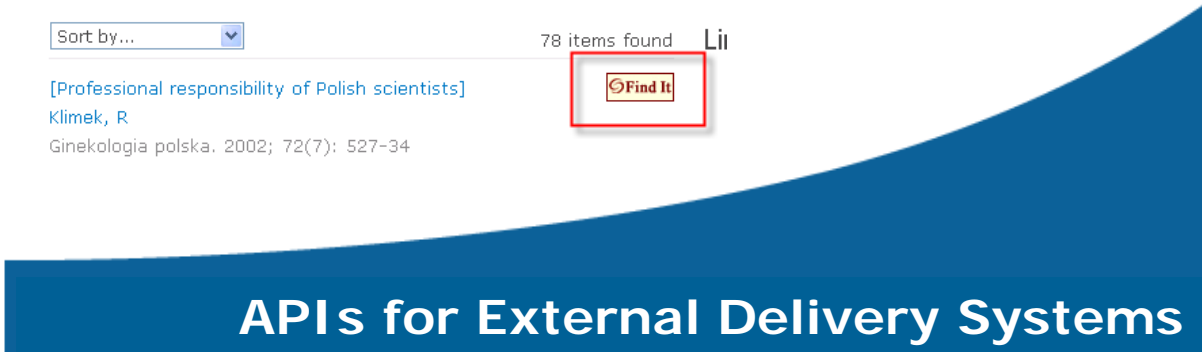
Search results

Sort by... [▼](#) 78 items found [Lit](#)

[Professional responsibility of Polish scientists]
 Klimek, R

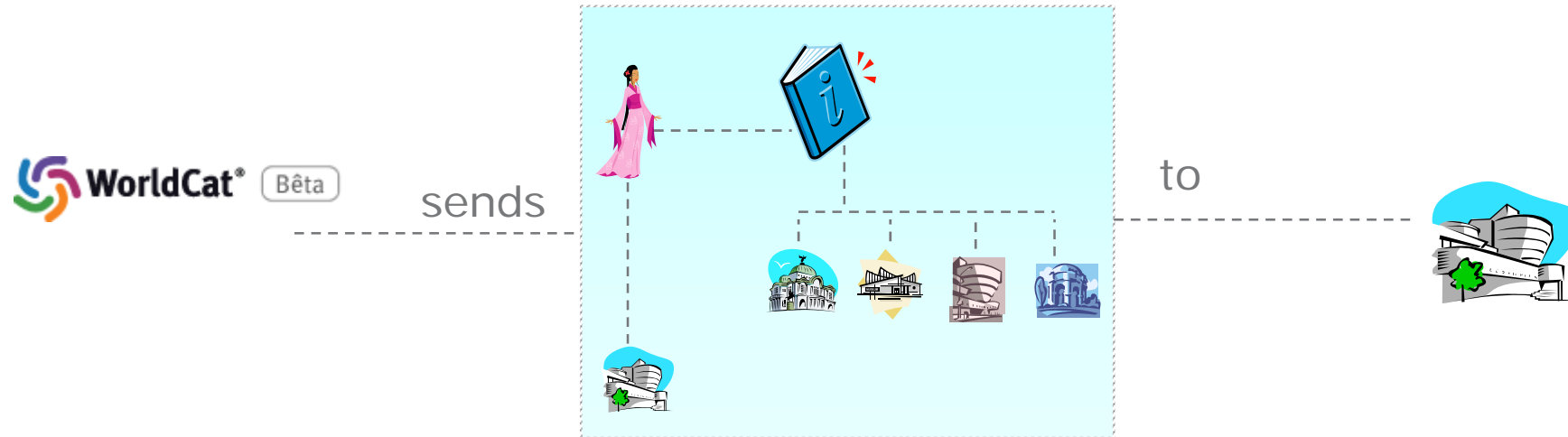
Ginekologia polska. 2002; 72(7): 527-34

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APIs for External Delivery Systems

Interoperation with external delivery systems



WorldCat sends **Request Transfer Message** to **User's Library's Delivery System**

Current and Future Strategy

- Help libraries world wide to provide world class service that are cohesive
 - Flexibility in integration of regional data and services
- Use of WorldCat Grid Services
 - Data access via download and web services
 - E.g. Worldcat API enriched data, mined data, linked data, authority data
 - Software components
- Partner involvement
 - E.g. Job Management
- Identify standards gaps and help develop them
 - Promote existing standards and interoperability

CBS – Heal Context

- Evolution of work done to date: Capabilities
 - load data from the **Advance** system
 - determine **best format** for the union catalogue (MARC21, UNIMARC, other)
 - interoperate with **existing ILS systems** (ADVANCE , Horizon, Aleph, Virtua and AVEKT)
 - interoperate with emerging **open source** systems
 - Interoperate with **content management** systems, **electronic resource** management systems and **repositories**



Thank you

Virtual Union Catalogue

- **Advantages:**
 - Light weight organization
 - Relatively easy to implement; easy to get agreements
 - Need metasearch engine and portal
 - Ad-hoc basis: easy to extend – easy to disconnect
- **Disadvantages:**
 - Slow
 - Limited common searching accesses
 - Limited sorting / relevance
 - Duplicates
 - Searching inefficiencies
 - Varying quality
 - **Availability of all systems**
 - Configuration maintenance

Search / Retrieve Standards

Z39.50

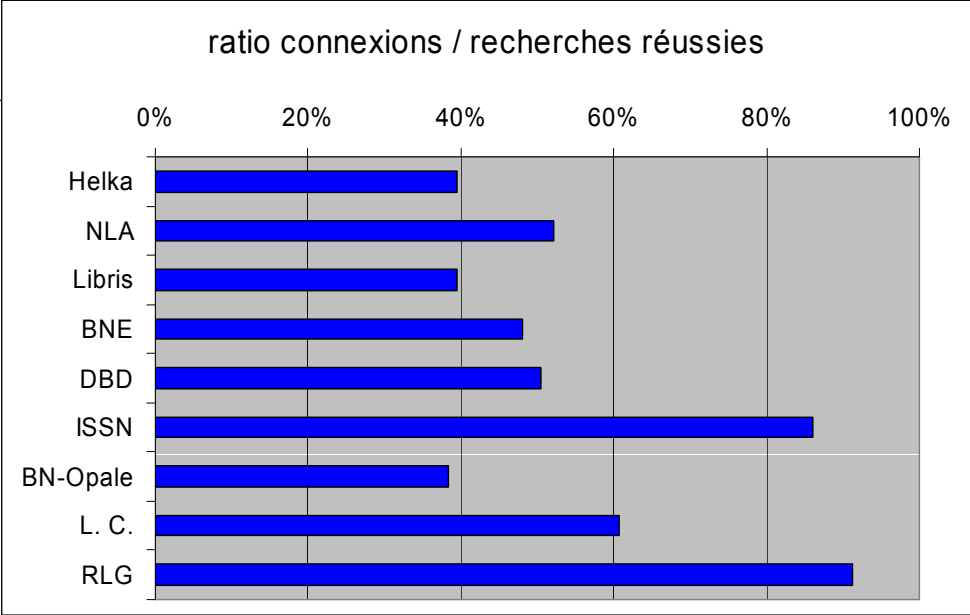
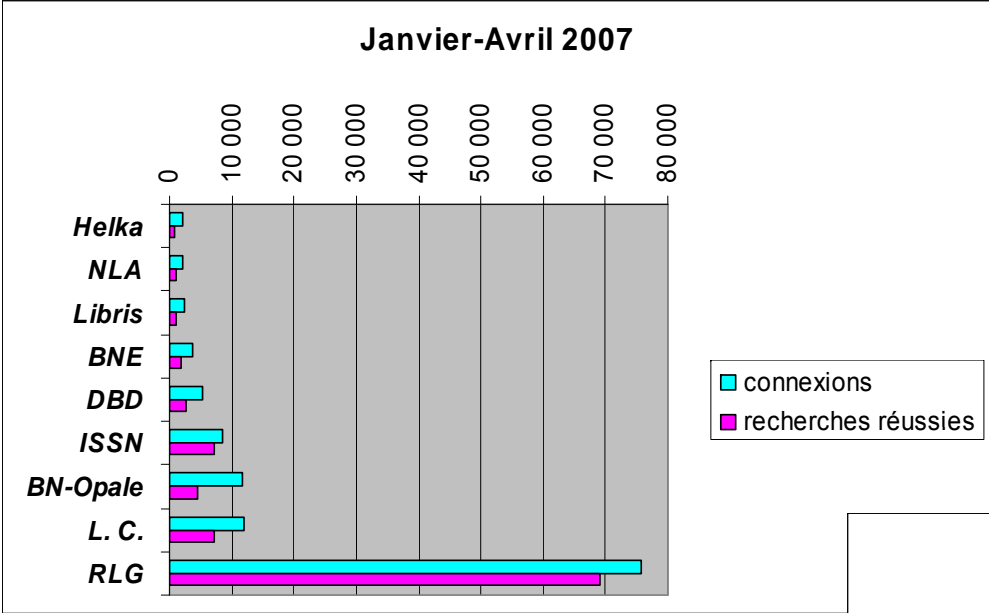
SRU

OpenSearch

Maintenance Standards

none

Z39.50 Searches - SUDOC



Update protocols compared

- **SRU Update**
- Two **databases** are **not identical** – e.g. A union catalogue is not a slave of the contributing catalogues
- **immediate availability** of records
 - Scalability, no scheduling & batch maintenance
- interactive **feedback** – alignment, enrichment
 - Identifiers
 - Inter-record links – authorities, .
- Diagnostics – diffused **error resolution**
- **OAI & FTP**
 - Suited for batch loading
 - OAI is used where the data source exposes the metadata to be harvested for discovery purposes
 - Where the data source does not expect the data to be changed by the harvesting site or does not care
 - Hence one way – no mechanism for response or future synchronisation

CBS components

