



La ricerca di informazioni nelle Intranet aziendali

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SWG ECM Tech Sales

IBM Information On Demand 2008
>>> Comes To You

ALLA LUCE DELL'INFORMATION ON DEMAND
Milano, 15 aprile 2008



- **Intranet search: scenari ed esigenze**
- IBM Omnifind Enterprise Edition
 - Architettura e tecnologia
- Oltre la ricerca per parola chiave
 - Ricerca semantica
- Referenze
- Scenari operativi

La ricerca di informazioni in Azienda



- ❑ Ambiente più complesso tecnicamente, integrato con applicazioni/portali e con la security aziendale
- ❑ Dati eterogenei: non solo dati HTML/Web, ma anche sistemi di Content Management, RDBMs, sistemi di eMail & Collaboration, file system, etc..
- ❑ Meno correlazioni e nessuna ridondanza: servono tecniche diverse per determinare la rilevanza
- ❑ Aspettative molto più elevate...

Enterprise Search

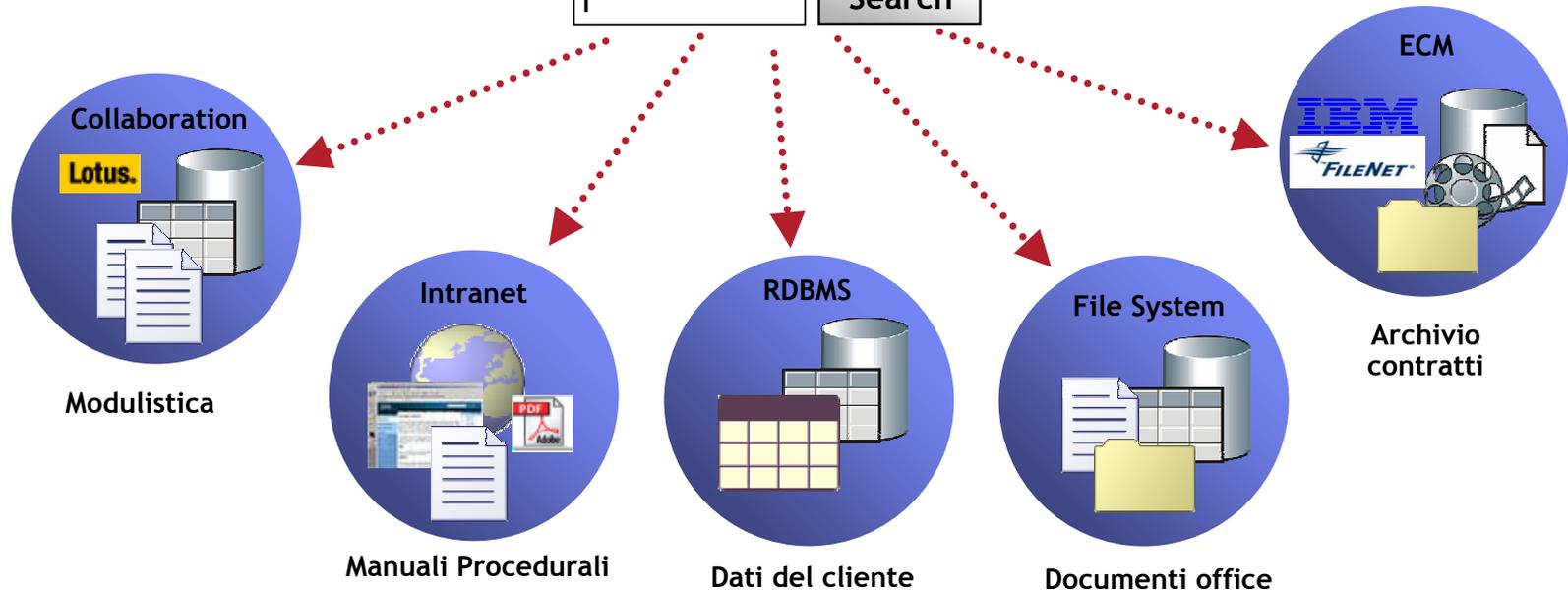
Intranet Search: uno scenario comune



Addetta alla gestione del cliente



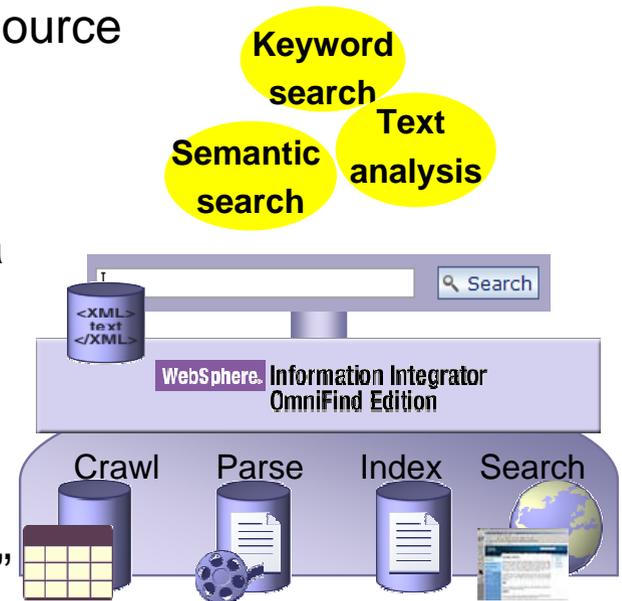
Dove sono i documenti relativi a questa richiesta del cliente?



La risposta: IBM Omnifind Enterprise Edition



- Integrazione nel Portale aziendale tramite interfacce Open (Java e Web services)
- Algoritmi di ricerca sofisticati su molteplici data source strutturati e non strutturati
- Tecniche di ranking all'avanguardia
- Architettura modulare e flessibile, alta affidabilità
- Risposte in frazioni di secondo, scalabilità
- Supporto multi-linguistico
- Sicurezza nativa dei data source
- Ricerca “per parola chiave” e ricerca “semantica” (sinonimi, radici lessicali, entità, relazioni)
- Utilizzo su sistemi operativi standard
- Leader nel Gartner 2007 Information Access “Magic Quadrant”



Agenda



- Intranet search: scenari ed esigenze
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Le tecnologie chiave di OmniFind



UIMA

- *Advanced Text Analysis*
- *Entità e relazioni*

Categorization

- *Rule-based*
- *Automatica*

Indexing

- *Global Analysis*
- *Static Ranking*
- *Elimina Duplicati*

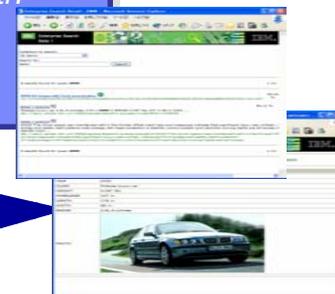
Parsing/ Tokenizing

- *Riconosce formato*
- *In Output un plain text con info di formattazione*
- *Parole e Frasi*
- *Trova il lemma*

Searching

- *Spell checking*
- *Dynamic Ranking*
- *Admin-influenced Ranking*
- *Dynamic Summary*
- *Custom dictionaries*
- *Ricerca per campi e parametri*
- *Ricerca semantica e per sinonimi*

Search
Collections



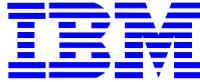
Crawling

- *Estrae il contenuto dai vari source (sicurezza)*
- *Copia su area di staging*
- *Vari Crawler in parallelo*

Enterprise
Content

Integrazione nativa con i repository: Omnifind crawlers



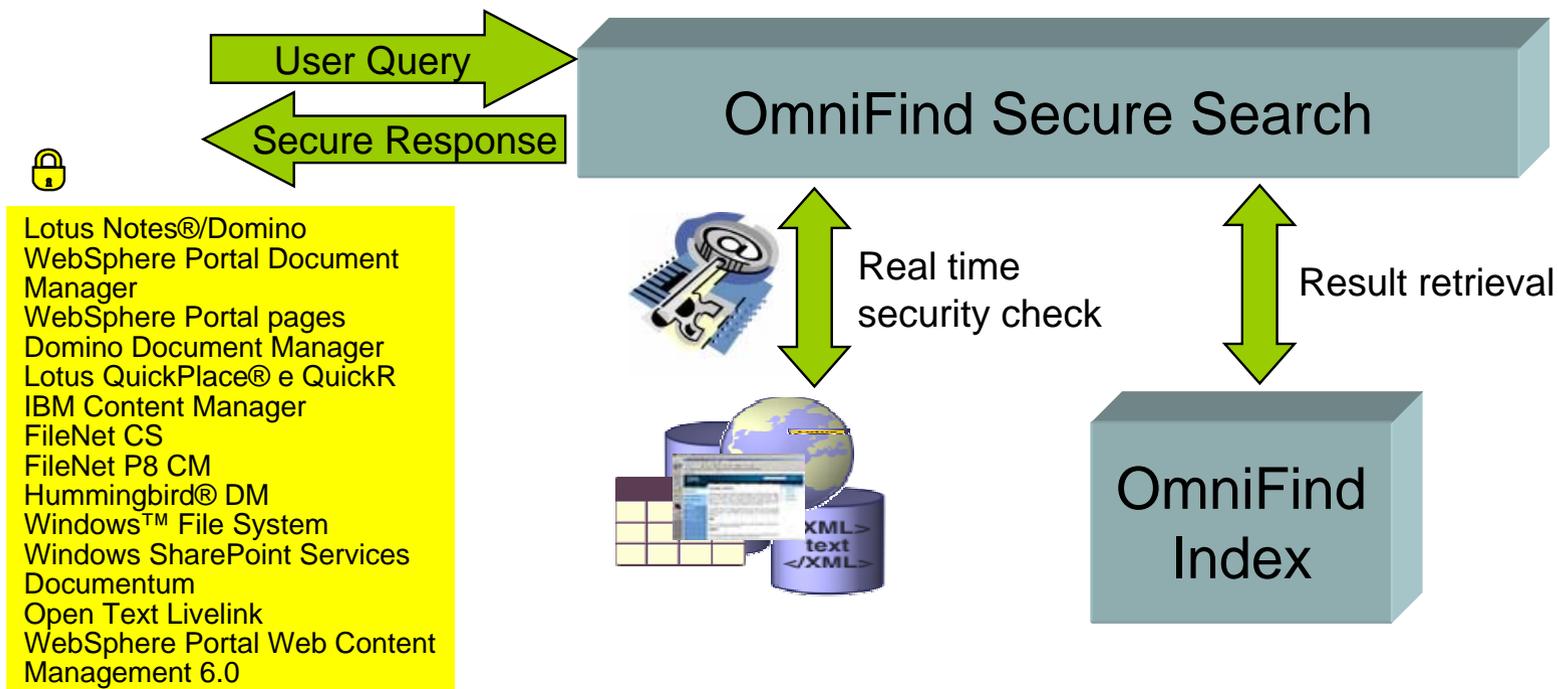
Web	Collaboration	ECM	Database
<ul style="list-style-type: none">• HTTP• HTTPS• WebSphere Portal Web pages• WebSphere Portal Document Manager• IBM Workplace Web Content Management• Newsgroup (NNTP)	<p>Lotus. Microsoft</p> <ul style="list-style-type: none">• Lotus Notes databases• Supporto per Domino 8 • Domino.doc• QuickPlace e QuickR• MS Exchange public folders• Windows SharePoint Services• Windows file systems• UNIX file systems	     	      <p>Mainframe: VSAM, IMS, CA-Datacom, Software AG Adabas</p>

Sicurezza nativa a livello di documento



1. Omnifind può memorizzare nell'indice le ACL del documento
2. OmniFind può controllare in tempo reale le ACL del documento nella fonte finale e verificare se l'utente è abilitato o no ad accedere all'informazione

Permette di dare la giusta informazione alla giusta persona nel giusto tempo senza esporre l'organizzazione a rischi sulla divulgazione di dati sensibili



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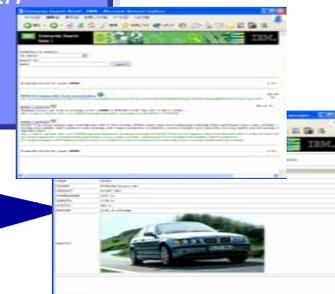
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Search
Collections



Crawling

- *Estrae il contenuto dai vari source*
- *Copia su area di staging*
- *Vari Crawler in parallelo*

Enterprise
Content

Parser: document processing

- **Riconoscimento formato e lingua del documento**
- **Segmentation:** suddivide il testo in unità lessicali distinte

"I don't plan to go to the meetings"

"I" "do" "not" "plan" "to" "go" "to" "the" "meeting"

- **Lemming:** associa ad una parola la sua forma base

houses => *house*
ran => *run*
mice => *mouse*
vanno => *andare*

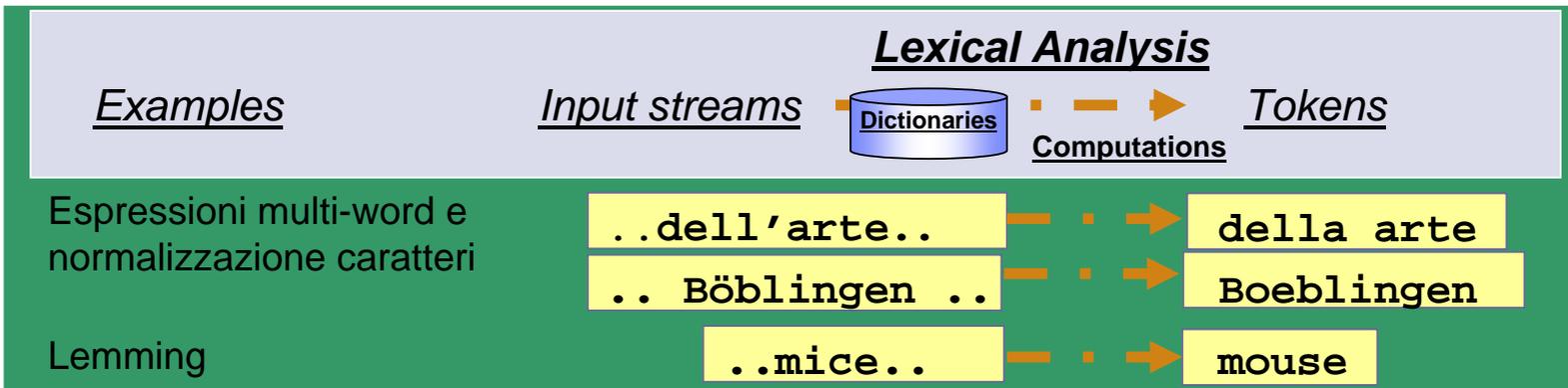
- **Tokenization:** determina i "tokens" da indicizzare
- Dictionary based segmentation e lemming per le lingue supportate
- Non-dictionary based segmentation per tutte le altre
- Normalizzazioni (maiuscolo/minuscolo, accenti e diacritici)

HTML, Plain text, XML, 123, Excel, Freelance, Ichitaro, Lotus WordPro, MS Visio, MS Word, PDF, PowerPoint, Rich Text, zip, tar più i formati supportati dai filtri stellent



Arabic, Chinese (Simplified & Traditional), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Italian, Japanese, Korean, Norwegian (Bokmal & Nynorsk), Polish, Portuguese, Russian, Spanish, Swedish

Hebrew, Hungarian and Turkish (lingua riconosciuta no lemming)



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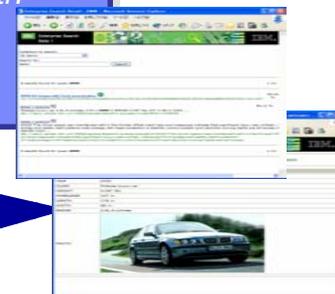
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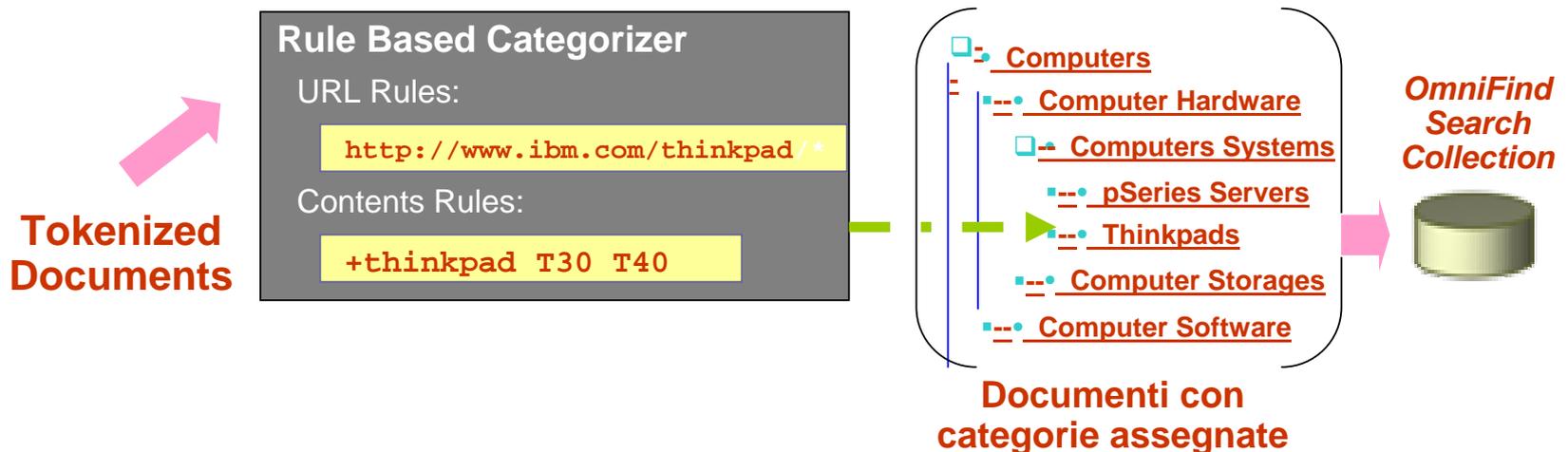
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Enterprise
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Categorizzazione.....



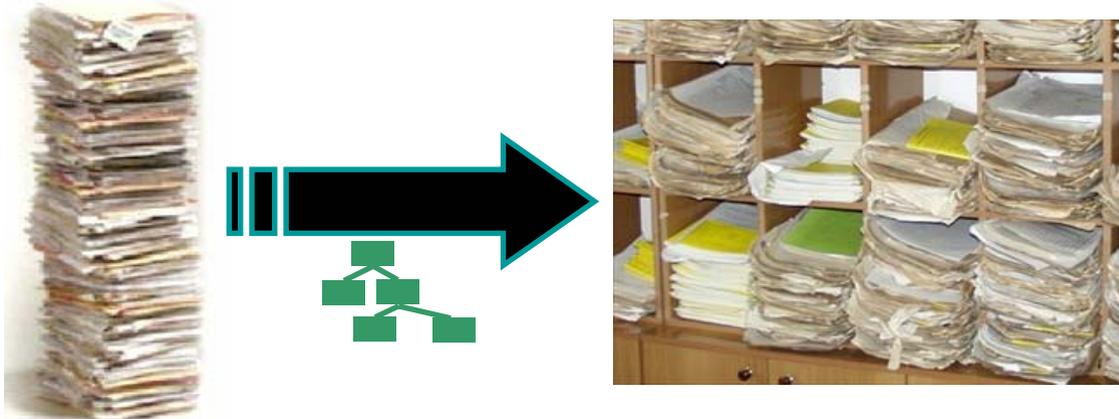
- ...*Rule Based*: assegnazione di una o più categorie ad un documento in base a regole
 - di provenienza
 - di contenuto
- ...*Automatica* tramite IBM Classification Module
 - Rende disponibile una tecnologia di classificazione che, opportunamente educata, può comprendere contenuti non strutturati e comunicazioni informali.



Altri usi di IBM Classification Module



- Email Routing/Workflow
- Email Suggesting Responses
- Email Prioritization
- Email Auto-reply
- Email Filtering
- Document/Content Classification (per caricamento in un sistema di Content Management)



Classificazione automatica



Application

Input

"Hi there -- 3 weeks ago I got a confirmation that my books were shipped, and my credit card was charged. It is 22 days later, and still nothing showed up. My Conf number is 2134-656534-294/a. Can you let me know what's up?
Regards, John"

Output

ORDER_STATUS (92%)
COMPLAINTS (82%)
ACCOUNT_BALANCE (32%)

Feedback

Intent = **ORDER_STATUS**

IBM® Classification Module

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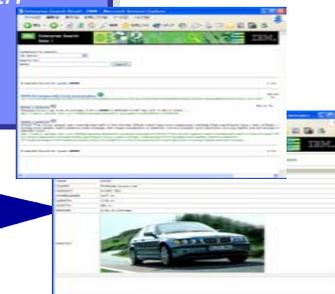
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Le potenzialità della Search Application standard



WebSphere Information Integrator OmniFind Edition IBM.

Searches Preferences My Profile Help About Log Out

Search Advanced Search Category Tree

Search for:
Kevin Maxwell traffic accident

Did you mean: [auto accident](#)

Quick links

- [Accident Reporting Procedures](#)
Standard corporate policies and procedures for reporting traffic accidents
- [CPS - Claims Processing Status Application](#)
CPS provides the ability to track the status of any claim in process

File type filter: [All](#) [doc](#) [html](#) [pdf](#) [ppt](#) [txt](#) [xls](#) [xml](#)

Source type filter: [All](#) [Claims App \(Lolus Domino\)](#) [Claims Docs \(CM Repository\)](#) [Customer Records \(DB\)](#) [File Servers](#) [Intranet](#) [Product Info \(DB\)](#)

Sorted by [relevance](#) | [Sort by date](#) 147 search results returned | 147 documents match all query terms

[Show Details](#) 1-10 of 147

“promozione URL” (Admin)

98.73%	2/13/06	4-852371Kevin Maxwell I stopped at the junction and looked both ways nothing was coming so I started to cross when she hit me. She, must have been going so fast and this traffic accident was all her fault. No Image Kevin Maxwell ... <i>domino://iies06.yamato.ibm.com/%3A1353/49256EB5003BB0E/demo%5Ccarinsurance.nsf/T34E9EDB9FA1744749256EB3001B51E2/42A5514F0C55261F49256EB5001BE7C3</i>
93.28%	2/13/06	Car Insurance Claim Form 4-852371 ...must have been going so fast and this traffic accident was all his fault Maxwell Kevin8888 Claimant First Name Kevin Last Name Maxwell Street 455 Rock St City Montgomery State AL Zip 36103 Home Phone ...Driver'sLicense 887267834 Policy Number 10456678903 Incident Information Date of Incident 06/08/2003 Driver Last Name Kevin Driver First Name Maxwell ...Montgomery State AL Description of Incident I stopped at the junction and looked both ways nothing was coming so I started to cross when she hit me. ... <i>cm://iies12/ClaimForm/83+3+ICM6+iies127+ICMBASE58+26+A1001001A04F16B10109F4038818+A04F16B10109F4038818+13+300</i>
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Filtri per TipoDoc / Fonte

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Icone che individuano la Fonte

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Abstract dinamico con le keyword in highlight

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Site collapse



Analisi dei "Top Results"



Browser address bar: http://eswin6.wma.ibm.com:9081/ESSearchApplication/search.do

Search application for enterprise... pb_whitepaper.pdf (application/pdf O...

OmniFind Enterprise Edition

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ibm Search

Quick links [IBM.com](#)
The IBM corporation's home on the world-wide web

File type filter: [All](#) [doc](#) [html](#) [pdf](#) [ppt](#) [txt](#) [xls](#) [xml](#)

Source type filter: [All](#) [Notes](#) [Web](#) [WebSphere Portal](#)

Sort by: [\[Relevance\]](#) Sort order: [Descending](#)

Expanded query: ibm

500 search results returned | 2916 documents match all query terms

Top Results Charts

Dynamic field chart

Field name: categories

Security (7)	██████████
Administration Tec... (2)	██████
Crawler Technotes (1)	████
API Technotes (1)	████

Dynamic field chart

Field name: databasetitle

Lotus Domino A... (488)	██████████
Domino Security ... (11)	█

Most recent documents

- [WCT_IM_Use_Lookup](#) (8/18/05)
- [\\$Use_ST_IM](#) (8/18/05)
- [ScriptCountryID](#) (8/18/05)
- [Update_Idle_Time_MS](#) (8/18/05)
- [Update_Idle_Time](#) (8/18/05)

Percentage	Date	Title	Icon
93,29%	8/18/05	List of Trademarks	Client Viewer
93,00%	8/18/05	IBM Domino Administrator dialog box	Client Viewer
92,85%	8/18/05	Installing DB2 on IBM AIX	Client Viewer
92,56%	8/18/05	Sources for improving server performance	Client Viewer
92,47%	8/18/05	Using IBM Lotus instant messaging in the Domino domain monitor database	Client Viewer
92,01%	8/18/05	Supported platforms and hardware and software requirements	Client Viewer
92,00%	8/18/05	Using IBM Lotus Notes Smart Upgrade	Client Viewer
91,99%	8/18/05	Installing and setting up Domino and DB2 on IBM AIX - Local configuration	Client Viewer

1-10 of 500

IBM logo

Analisi dei "Top Results"



Search application for enterprise... pb_whitepaper.pdf (application/pdf O...

OmniFind Enterprise Edition

Searches Preferences My Profile Log Out Help About

Basic Search Advanced Search Category Tree

Search for: [Help for query syntax](#) [?]
ibm

Quick links [IBM.com](#)
The IBM corporation's h...

File type filter: All doc html pdf
Source type filter: All Notes Web V...
Sort by: [Relevance] Sort on...
Expanded query: ibm
500 search results returned | 2916 docu...

Analizza i primi 500 risultati basandosi sui metadati

Top Results Charts

Dynamic field chart

Field name: categories

Security (7)	██████████
Administration Tec... (2)	██████
Crawler Technotes (1)	████
API Technotes (1)	████

Dynamic field chart

Field name: databasetitle

Lotus Domino A... (488)	████████████████████
Domino Security ... (11)	██████

Most recent documents

- [WCT_IM_Use_Lookup](#) (8/18/05)
- [\\$Use_ST_IM](#) (8/18/05)
- [ScriptCountryID](#) (8/18/05)
- [Update_Idle_Time_MS](#) (8/18/05)
- [Update_Idle_Time](#) (8/18/05)

1-10 of 500

Relevance	Date	Title	Client Viewer
93.29%	8/18/05	List of Trademarks	Client Viewer
93.00%	8/18/05	IBM Domino Administrator dialog box	Client Viewer
92.85%	8/18/05	Installing DB2 on IBM AIX	Client Viewer
92.56%	8/18/05	Sources for improving server performance	Client Viewer
92.47%	8/18/05	Using IBM Lotus instant messaging in the Domino domain monitor database	Client Viewer
92.01%	8/18/05	Supported platforms and hardware and software requirements	Client Viewer
92.00%	8/18/05	Using IBM Lotus Notes Smart Upgrade	Client Viewer
91.99%	8/18/05	Installing and setting up Domino and DB2 on IBM AIX - Local configuration	Client Viewer

2008

Analisi dei "Top Results"



Search application for enterprise... pb_whitepaper.pdf (application/pdf O...

OmniFind Enterprise Edition

Searches Preferences My Profile Log Out Help About

Basic Search Advanced Search Category Tree

Search for: Help for query syntax

ibm Search

Quick links **IBM.com**
The IBM corporation's home...

File type filter: All doc html p
Source type filter: All Notes W
Sort by: [Relevance] S
Expanded query: ibm
500 search results returned | 29

Top Results Charts 1-10 of 500

Dynamic field chart

Field name: [Select a field] X

- [Select a field]
- [author]
- [collectionid]
- [documentid]
- [source]
- [doctype]
- [documentURI]
- [language]
- [score]
- [firstofsites]
- [categories]
- [body]
- [createddate]
- [creator]
- [databasename]
- [databasesetitle]
- [date]
- [documentunit]
- [issues1]

Most recent documents

- ♦ [WCT_IM_Use_Lookup](#) (8/18/05)
- ♦ [\\$Use_ST_IM](#) (8/18/05)
- ♦ [ScriptCountryID](#) (8/18/05)
- ♦ [Update Idle Time MS](#) (8/18/05)
- ♦ [Update Idle Time](#) (8/18/05)

93.00% 8/18/05 [IBM Domino Administrator dialog box](#) Client Viewer
Lotus Domino Administrator 7 Help
...Licensed Materials Property of IBM Copyright IBM Corporation 1987 2005 All rights reserved. US Government Users Restricted Rights Use duplication or disclosure restricted by GS ADP Schedule Contract with IBM Corp. Lotus Software IBM Software Group One Rogers Street Cambridge MA 02142. IBM the IBM logo AIX Domino Freelance Freelance Graphics iSeries i5 OS Lotus Lotus Notes LotusScript Notes 1 2 3 ...Additional IBM copyright information can be found at http www.ibm.com/legal/copytrade.shtml Intel and Pentium are trademarks ...

92.85% 8/18/05 [Installing DB2 on IBM AIX](#) Client Viewer
Lotus Domino Administrator 7 Help
IBM Domino Administrator dialog box. This message box displays because the mail file name is a duplicate name. In the field Mail file name enter a unique mail file name for the person you are registering. Click OK. The person is successfully registered. ...

92.56% 8/18/05 [Sources for improving server performance](#) Client Viewer
Lotus Domino Administrator 7 Help
Sources for improving server performance. The following links provide up-to-date information and recommendations. ...www.lotus.com/performance/IBM/Redbooks at www.redbooks.ibm.com/Solaris at www.lotus.com/dominosolaris/Windows 2000 internals at www.systemsinternals.com/Hewlett-Packard at www.hp.com/IBM/performance pages for the following machines iSeries at www.ibm.com/servers/eserver/iseries/xSeries at www.pc.ibm.com/www/eserver/xseries/domino/zSeries at www.ibm.com

92.47% 8/18/05 [Using IBM Lotus instant messaging in the Domino domain monitor database](#) Client Viewer
Lotus Domino Administrator 7 Help
Using IBM Lotus instant messaging in the Domino domain monitor database. ...If the field IBM Lotus Sametime Server on the Location document Server tab contains a Sametime server name the option ...If the IBM Lotus Sametime Server field is blank the Show Administrators feature is not operational. ...The IBM Lotus instant messaging pane in DDM NSF on a collecting server contains an option allowing you to specify ...On all other servers that is non-collecting servers the IBM Lotus instant messaging pane displays the Administrator list for ...

92.01% 8/18/05 [Supported platforms and hardware and software requirements](#) Client Viewer
Lotus Domino Administrator 7 Help
...For Microsoft Windows platforms use NDB2KEY DLL for IBM AIX platforms use libdb2key_r.a. ...IBM AIX is opt lotus.ibm. For more information about the DB2 key see the URL http www.ibm.com/lotus/nsf/b2/Supported platforms Domino 7 ...Software requirements IBM Lotus Domino server 7 IBM Lotus Domino Administrator 7 0 DB2 UDB Enterprise Server Edition version 8 ...IBM DB2 Access for Lotus Domino 7 0 IBM Lotus Notes Client 7 0 is required to be able to ...

92.00% 8/18/05 [Using IBM Lotus Notes Smart Upgrade](#) Client Viewer
Lotus Domino Administrator 7 Help
Using IBM Lotus Notes Smart Upgrade. ...You create policy documents in the Domino Directory to distribute standard settings and configurations across groups departments or entire organizations. ...1 For more information about policies see the book Administering the Domino System. ...Create a database using the Smart Upgrade Kits template to host Notes client update kits. ...5 Download an update kit also known as an incremental installer from the Lotus Developer Domain Web site http www...

91.99% 8/18/05 [Installing and setting up Domino and DB2 on IBM AIX - Local configuration](#) Client Viewer
Lotus Domino Administrator 7 Help
Installing and setting up Domino and DB2 on IBM AIX Local configuration. ...For IBM AIX platforms use libdb2key_r.a. Add the DB2 key to the default Domino Program directory opt

Analisi dei "Top Results"



Search application for enterprise... http://eswin6.wma.ibm.com:9081/ESSearchApplication/search.do

OmniFind Enterprise Edition

Search for: Search

Did you mean: [icm](#)
Did you mean: [severity](#)

File type filter: [All](#) [doc](#) [html](#) [pdf](#) [ppt](#)
Source type filter: [All](#) [Notes](#) [Web](#) [Web](#)
Sort by: [\[Relevance\]](#) Sort order:
Expanded query: +categories:Security
8 search results returned | 8 documents

Results refined by:
categories: Security (7)

Top Results Charts

Dynamic field chart
Field name:
Security (7)

Dynamic field chart
Field name:
Domino Security U... (7)

Most recent documents

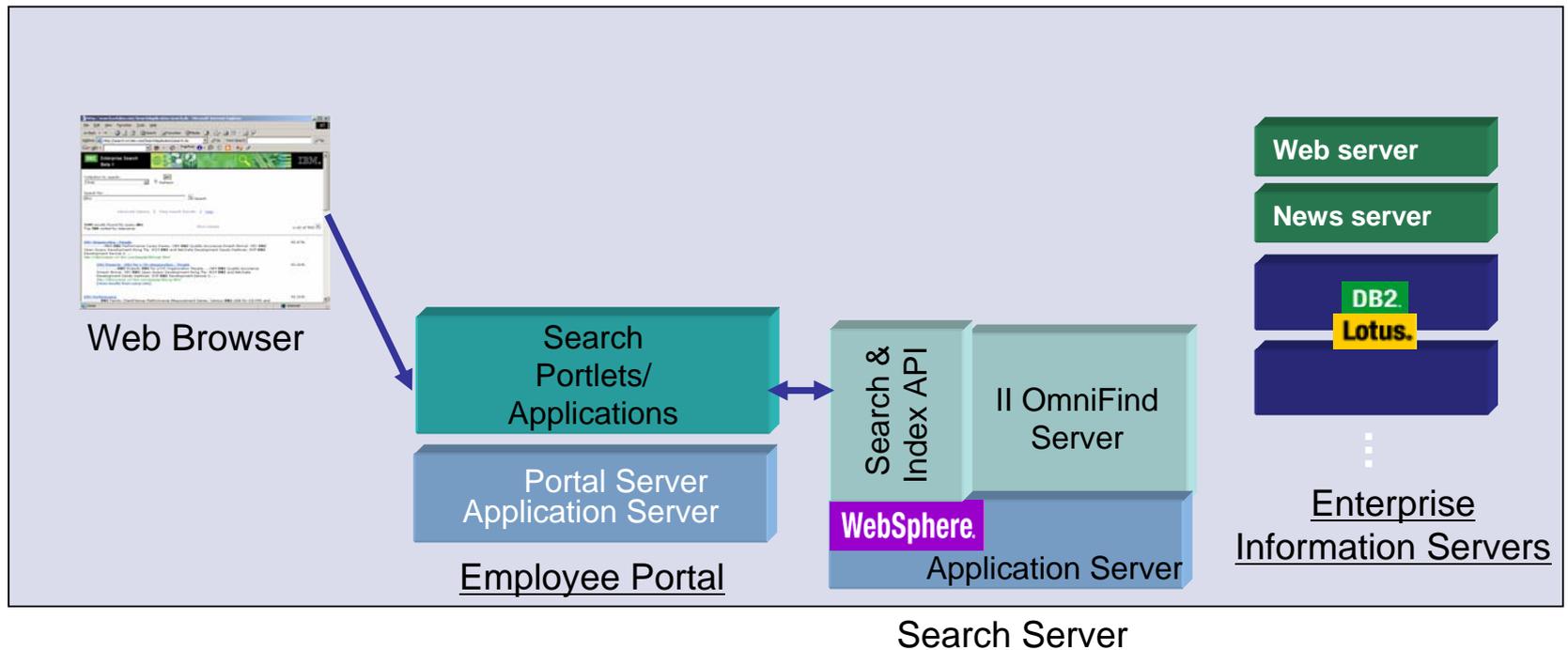
- Domino Native ACL - Overview (4/5/05)
- Domino Native ACL - Assumptions (4/5/05)
- Domino Native ACL - DIIOIP Information (4/5/05)
- Domino Native ACL - Requirements (4/5/05)
- Domino Native ACL - NRPC information (4/5/05)

Percentage	Date	Title	Client Viewer
74.03%	4/5/05	Domino Native ACL - Overview	Client Viewer
74.03%	4/5/05	Domino Native ACL - Assumptions	Client Viewer
73.95%	4/5/05	Domino Native ACL - DIIOIP Information	Client Viewer
73.85%	4/5/05	Domino Native ACL - Requirements	Client Viewer
73.71%	4/5/05	Domino Native ACL - NRPC information	Client Viewer
73.58%	4/5/05	Domino Native ACL - Parser/Tokenizer	Client Viewer
73.56%	4/5/05	Domino Native ACL - Query Expression	Client Viewer

Architettura OmniFind



- OmniFind Search server è solitamente separato dalla search application
 - La Search application è un'applicazione/portlet custom di cui viene fornito il codice come esempio
 - Funzioni OmniFind richiamabili anche via Web services



Integrazione della ricerca nelle applicazioni Lotus Notes



Search application for enterprise search - IBM Lotus Notes

File Edit View Create Tools Window Help

Open Web Browser - OmniFind Web - websph... x

ere application server Search

Recent Searches

- websphere application server
- websphere
- ibm

Back Forward

http://eswin6.wma.ibm.com/ESSearchApplication/search.do?q=websph... Print

WebSphere Information Integrator OmniFind Edition

Searches Preferences My Profile Log Out Help About

Basic Search Advanced Search Category Tree

Search for: [Help for query syntax](#)

websphere application server Search

File type filter: [All](#) [doc](#) [html](#) [pdf](#) [ppt](#) [txt](#) [xls](#) [xml](#)

Source type filter: [All](#) [Content Edition](#) [Domino Document Manager](#) [Notes](#) [QuickPlace](#) [WebSphere Portal](#) [Windows file system](#)

Sort by: [Relevance] Sort order: [Descending]

Expanded query: websphere application server

45 search results returned | 45 documents match all query terms

Show Details 1-10 of 45

100.00%	5/25/06		CE RMI Proxy Connector configuration
OmniFind Development			
OmniFind Development			
CN=Dana Morris/O=Desktop;Dana Morris;Dana Morris;CN=Dana Morris/O=Desktop			
...Machine 2 WebSphere Portal Server WPS and WebSphere Application Server 1 On IICE Server installation extract the following files from ...C IICE 2 In Websphere Admin Console Applications Install New Application Browse to services war. ...vbr_pdm jar 11 In Websphere Admin Console Applications Enterprise Applications services_war Libraries Add Library Refs for the Shared Libraries created ...C IICE b In Websphere admin console add the vbr home variable to the WebSphere_Portal server settings. Navigate to Servers Application Servers WebSphere_Portal Process Definition Java Virtual Machine Custom Properties. ...			
100.00%	11/16/06		QuickStartGuide_EN.pdf
c:\program files\ibm\es\docs\en_US			
QuickStartGuide_EN.pdf			
...doc installing iisjupover htm No Go to step B. Is WebSphere Application Server installed. ...ibm com developerworks websphere zones portal proddoc.html OmniFind Enterprise Edition information roadmap OmniFind Enterprise Edition PDF documentation WebSphere Portal ...of WebSphere Application Server Insert the OmniFind Enterprise Edition CD or find the installation executable file for your platform. ...CD WebSphere Application Server Version 6 WebSphere Application Server Refresh Pack 2 WebSphere Information Integrator Content Edition Version 8 3 ...To install on 1 server go to step E. To install on			

Edit Locations...

IBM LOTUS NOTES AND DOMINO 8
Taking collaboration
to a whole new level.



Integrazione di Omnifind col WebSphere Portal



- Integrazione con Portal 6.0 Search Center
 - Permette di ricercare tutti i contenuti enterprise (via OmniFind) dal nuovo Search Center
 - Portal “install script” aggiunge automaticamente OmniFind come “search provider”
- Supporto per WebSphere Content Management (WCM) 6.0
 - Nuovo Crawler per WCM 6.0 (simile al crawler del portale)
 - Supporta la sicurezza nativa di WCM 6.0 a livello di documento

Search Center

Search: search services

Search Center

5 results found in All Sources for search services

Show Details

Relevance	Title	Person	Date
○○○○○	New Domino server and Domino Administrator client features		9/30/02 1:55 PM
○○○○○	Upgrading to Lotus Notes 6 and Lotus Domino 6		9/30/02 1:55 PM
○○○○○	Domino server and Domino Administrator client enhancements		9/30/02 1:55 PM
○○○○○	Interoperability issues		9/30/02 1:55 PM
○○○○○	ES FPDF w		8/1/05 1:50 PM

Show Details

Number of results per page: 10 20 30 50

Home Home Administration Administration Documents Documents Messaging Messaging Site Map Site Map

Agenda



- Intranet search: scenari ed esigenze
- IBM Omnifind Enterprise Edition
 - Architettura e tecnologia
- Oltre la ricerca per parola chiave
 - Ricerca semantica
- Referenze
- Scenari operativi

Oltre la ricerca per parola chiave



WebSphere Information Integrator
OmniFind Edition



Search Options Help About

keyword search semantic search collections

Search for:
Neon

Search Clear Search Maximize Query

La ricerca per parola chiave conduce spesso a risultati irrilevanti e molto "rumore di fondo" che difficilmente porta ai risultati sperati

3 search results returned
3 documents match all query terms

Show Details | Hide Summaries

- report0017.pdf**
<http://airline.boeblingen.de.ibm.com/data/OFDemoData/report0017.pdf> - 94.74% - September 1, 2005
Summary: ...Type Household owned by Barry Cohen Summary Demolished neon advertisement. During a heavy storm on April the 23 2005 the neon sign from Big Johns Burger has been torn off ...John Wilder is the owner of the restaurant. The neon sign was a special made and unique neon sign. The estimated repair costs for the neon sign are 3.467 ...
- Insurance report 0018**
<http://airline.boeblingen.de.ibm.com/data/OFDemoData/report0018.doc> - 94.29% - September 1, 2005
Summary: ...Insurance report 0018 Type Household owned by Richard Temple Summary Demolished neon lights. The claimant Phillip Sarbeyas is owner of a large production hall. During an abnormally high peak in the power supply network caused by a malfunction at the transformation station all neon tube lights have been destroyed. The site was illuminated by 500 neon tubes and the estimated repair costs for reinstalling new neon tubes are 639,70 ...
- Insurance report 0001**
<http://airline.boeblingen.de.ibm.com/data/OFDemoData/report0001.htm> - 93.62% - September 1, 2005
Summary: ...A Neon was driven by Timothy Higgins. The Neon was traveling the wrong way northbound in the same lane as a Geo Storm and a Freighliner. ...The Neon then lost control and rotated clockwise. ...All three events took place on 13th Jul. 05 at around 03:07 o'clock. The Neon had a severe damage on the left side. ...

3 search results returned
3 documents match all query terms

Show Details | Hide Summaries

1-3 of 3

.... e ricerca SEMANTICA



WebSphere Information Integrator
OmniFind Edition

Search Options Help About



keyword search semantic search collections

Enter semantic search query:

keyword

contains car

make

model

contains person

name

type

gender

age

contains license plate

plate value

issued in

contains date

part of day

month

quarter

year

Search Clear Search

1 search results returned
1 documents match all
query terms

Show Details | Hide Summaries

1-1 of 1

[Insurance report 0001](http://airline.boeblingen.de.ibm.com/data/OFDemoData/report0001.htm)
<http://airline.boeblingen.de.ibm.com/data/OFDemoData/report0001.htm> - 93.62% - September 1, 2005

car: Dodge Neon; Geo Storm; Freightliner; Geo
persons: John White; Timothy Higgins
customer: Timothy Higgins
employee: John White
age: 21

Summary: ...A Neon was driven by Timothy Higgins. The Neon was traveling the wrong way northbound in the same lane as a Geo Storm and a Freightliner. ...The Neon then lost control and rotated clockwise. ...All three events took place on 13th Jul. 05 at around 03:07 o'clock. The Neon had a severe damage on the left side. ...

1 search results returned
1 documents match all
query terms

Show Details | Hide Summaries

1-1 of 1

discovered information*

* L'informazione trovata non è necessariamente contenuta in modo esplicito nel documento.

UIMA & Text Analytics



- UIMA: Unstructured Information Management Architecture
 - Framework di supporto all'analisi semantica dei testi (text analytics) tramite "annotators" che consentono di scoprire il significato implicito nei contenuti non strutturati
 - Fornisce anche i tool per sviluppare Annotators e renderli UIMA-compliant (developerWorks)
 - Permette il plug-n-play delle tecnologie analitiche di differenti vendors
 - **Apache UIMA release da Marzo 2007**
- Supporto UIMA in Omnifind
 - Gli annotator si integrano in Omnifind per consentire la ricerca semantica
 - Supporto di un vasto ecosistema di partner
 - **Regular Expression Annotator** (incluso in Omnifind 8.4) è un Annotator configurabile tramite rule file che scopre concetti



Ricerca di "phone number" come concetto



Basic Search **Advanced Search** Category Tree

[Modify advanced search](#)

Search for: [Help for query syntax](#) [?]

IBM phone number

Synonym expansion: 'phone nbr', 'telephone nbr', 'telephone number',
Synonym expansion concepts: #phonenumber

File type filter: [All](#) [doc](#) [html](#) [pdf](#) [ppt](#) [txt](#) [xls](#) [xml](#)
Source type filter: [All](#) [Notes](#) [Web](#)

Sort by: [Relevance] Sort order: [Descending]

Start date: End date:

Expanded query: @xmlf2:'ibm <.or>phone <#phonenumber/> "phone nbr" "telephone nbr" "telephone number" </or><.or>number <#phonenumber/> "phone nbr" "telephone nbr" "telephone number" </or>' ^({\$source::Web})
183 search results returned | 183 documents match all query terms

[Show Details](#) 1-10 of 183

74.35%	7/31/06	Contact IBM - United States http://www.ibm.com/contact/us/ ...1 888 839 9289 ews us ibm com. TTY service 1 800 IBM 3383 within North America. ...Phone number 877 426 6006. Fax number 866 722 9226. ...Enter the name of an IBM employee to find his or her e-mail address and telephone number. ...
71.46%	7/31/06	IBM Directory of worldwide contacts - Egypt http://www.ibm.com/planetwide/eg/ ...Phone. ...Call fax number supplied with your product. IBM all other products contracts. ...IBM Software Support Information Management Lotus Rational Tivoli and WebSphere. ...971 4 8819212 Fax 44 208 818 1180 Email ifmxsup uk ibm com. ...
71.43%	7/31/06	IBM Directory of worldwide contacts - Saudi Arabia http://www.ibm.com/planetwide/sa/ ...Phone. IBM Software Support Information Management Lotus Rational Tivoli and WebSphere. 44 0 870 010 1952. ...Fax number supplied with your product. ...971 4 8819212 Fax 44 208 818 1180 Email ifmxsup uk ibm com. ...
70.73%	7/31/06	IBM Directory of worldwide contacts - Peru http://www.ibm.com/planetwide/pe/ ...Tel 51 1 349 00402 Toll Free 0800 50001. ...51 1 317 60552 Toll Free 0800 51635. IBM Software Support Information Management Rational Tivoli and WebSphere. Phone 1 317 60505 Free 0800 50 8665 Phone 0 800 500056. ...Phone 512 838 4400 Spanish 5 Phone 512 838 4399 Portuguese 5 Phone 512 838 4400 Spanish 6 Phone 512 838 4399 ...
70.72%	7/31/06	IBM Directory of worldwide contacts - Mexico http://www.ibm.com/planetwide/mx/ ...52 52 703 000. ...52 52 706 701. ...Tel 52 52 705 990 Fax 52 52 705 910. ...001 866 434 2080. IBM Software Support Information Management Rational Tivoli and WebSphere. ...
70.72%	7/31/06	IBM Directory of worldwide contacts - Nicaragua http://www.ibm.com/planetwide/ni/ ...505 274 4000. ...IBM Software Support Information Management Rational Tivoli and WebSphere. Phone 054 11 4898 4898 ext 2525. ...Phone 512 838 4400 Spanish Phone 512 838 4399 Portuguese. About IBM Privacy Contact ...

UIMA & Online Media Analysis



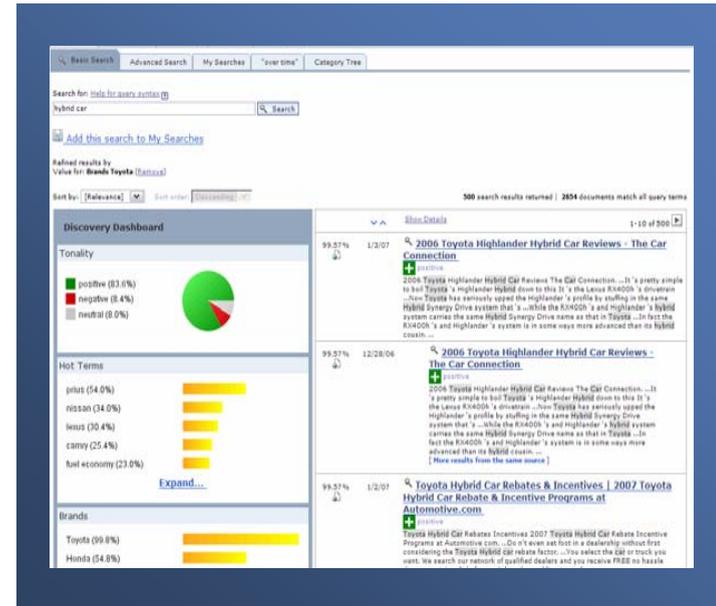
Gestione della “reputazione”, immagine pubblica e opinione su marchio

Benefici

- Rileva trend ed oscillazioni nelle opinioni diffuse nel web
- Scopre temi rilevanti per una compagnia ed i suoi marchi
- Benchmark verso i concorrenti

Funzionalità

- Accede blogs, siti di informazione, feeds, siti concorrenza,...
- Analizza tonalità, temi “caldi”, marchi, prodotti, ...



UIMA & Online Media Analysis : Interfaccia Utente



Basic Search Advanced Search My Searches "over time"

Search for: [Help for query syntax](#) [?]

hybrid car Search

[Add this search to My Searches](#)

Sort by: [Relevance] Sort order: []

500 search results re... terms

Discovery Dashboard

Tonality

99.57% 1/3/07

- positive (83.6%)
- negative (8.4%)
- neutral (8.0%)

Hot Terms

- prius (54.0%)
- nissan (34.0%)
- lexus (30.4%)
- camry (25.4%)
- fuel economy (23.0%)

[Expand...](#)

Brands

- Toyota (99.8%)
- Honda (54.8%)

Semplice ricerca per parola chiave

Aggregazione risultati

Tonalità documento

Temi "caldi" nei risultati

Concetti pre-definiti

2006 Toyota Highlander Hybrid Car Reviews - The Car Connection

positive

2006 Toyota Highlander Hybrid Car Reviews The Car Connection. ...It's pretty simple to boil Toyota's Highlander Hybrid down to this It's the Lexus RX400h's drivetrain ...Now Toyota has seriously upped the Highlander's profile by stuffing in the same Hybrid Synergy Drive system that's ...While the RX400h's and Highlander's hybrid system carries the same Hybrid Synergy Drive name as that in Toyota ...In fact the RX400h's and Highlander's system is in some ways more advanced than its hybrid cousin. ...

2006 Toyota Highlander Hybrid Car Reviews - The Car Connection

positive

2006 Toyota Highlander Hybrid Car Reviews The Car Connection. ...It's pretty simple to boil Toyota's Highlander Hybrid down to this It's the Lexus RX400h's drivetrain ...Now Toyota has seriously upped the Highlander's profile by stuffing in the same Hybrid Synergy Drive system that's ...While the RX400h's and Highlander's hybrid system carries the same Hybrid Synergy Drive name as that in Toyota ...In fact the RX400h's and Highlander's system is in some ways more advanced than its hybrid cousin. ...

[More results from the same source]

Toyota Hybrid Car Rebates & Incentives | 2007 Toyota Hybrid Car Rebate & Incentive Programs at Automotive.com

positive

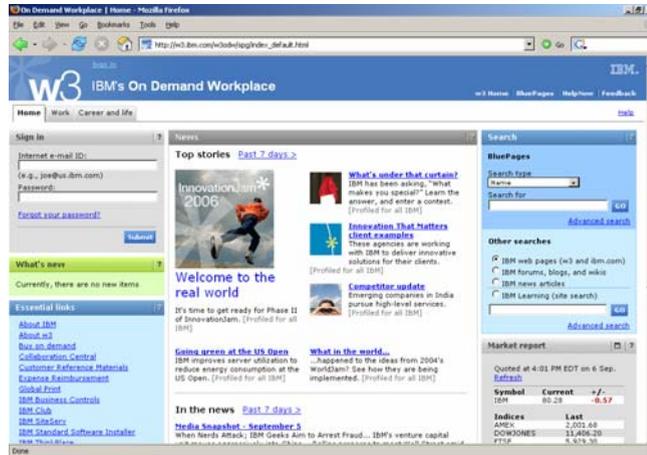
Toyota Hybrid Car Rebates Incentives 2007 Toyota Hybrid Car Rebate Incentive Programs at Automotive.com. ...Do n't even set foot in a dealership without first considering the Toyota Hybrid car rebate factor. ...You select the car or truck you want. We search our network of qualified dealers and you receive FREE no hassle

Agenda



- IBM Enterprise Content Management
- Intranet search: scenari ed esigenze
- IBM Omnifind Enterprise Edition
 - Architettura e tecnologia
- Oltre la ricerca per parola chiave
 - Ricerca semantica
- **Referenze**
- **Scenari operativi**

IBM w3 Intranet utilizza OmniFind Enterprise Edition



- Attiva dal Settembre 2003
- 8,000 siti 25M pagine
- Supporta più di 300.000 dipendenti
- Tempi di risposta sotto il secondo
- Preferita 2:1 rispetto alla tecnologia precedente

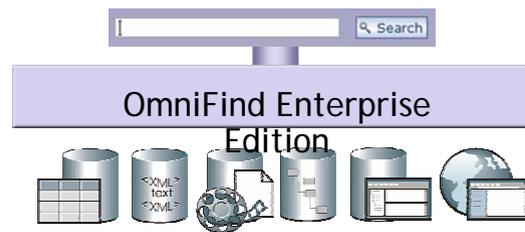
IBM's intranet, powered by OmniFind Enterprise Edition, was selected as one of *The Year's 10 Best Intranets 2006* by world-renowned usability research firm Nielsen Norman Group. IBM was the only information technology company recognized in this report.



Social Search sulla Intranet IBM (w3)



- Permette all'intera comunità degli utenti di influenzare la rilevanza ed il valore dei contenuti
- Gli utenti salvano i bookmark e le loro keyword di ricerca ("tags") per le pagine che hanno trovato utili
- Gli utenti possono anche salvare bookmark e tag per database Lotus Notes
- Le tag sono condivise tra gli utenti
- La Social Search in IBM w3 utilizza il tool dogear
- Funzione di Expert locator e link a forum, blog, and pagine wiki



Social Search sulla Intranet IBM



IBM Intranet | Internet Search results - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Links

Address http://w3.ibm.com/search/do/search?queryType=simple&pageType=results&ik=8&pageNumber=1&tabName=w3&q=omnifind&sortBy=&hkey=200709031011030096409937579&qt=omnifind&op0=%2&ty0=w&op1=%

Hello Simona Pondrano Edit settings Sign out

W3 Search w3 Home BluePages HelpNow Feedback

BluePages IBM Web pages Forums, Blogs, Wikis News

Search for: omnifind GO Show more search options Search tips Edit settings

1 - 10 of about 2,312 for omnifind sorted by relevance

Sort by: Relevance | Date

<< Suggested matches

OmniFind (WebSphere Information Integrator OmniFind Edition)

IBM WebSphere Information Integrator OmniFind Edition provides enterprise search middleware for powering intranets, extranets, and corporate public web sites.
<http://www-306.ibm.com/software/data/enterprise-search/omnifind-enterprise/>

IBM Redbooks | WebSphere Information Integrator OmniFind Edition...

IBM Redbooks WebSphere Information Integrator **OmniFind** Edition Fast Track Implementation. Skip to main content. ...it in a single-server Windows 2000 environment and a multiple-server AIX environment. ...Appendix A Template for topology and configuration information. Appendix B Data sources used in the IBMSI and IBMHR collections. (20 Aug 2007)
<http://www.redbooks.ibm.com/abstracts/sg246697.html>

Intro to WebSphere Information Integrator OmniFind Edition

...com Project Manager and Developer IBM. 10 Mar 2005. Register now or sign in using your IBM ID and password. This tutorial provides a guided tour through the WebSphere Information Integrator **OmniFind** Edition. ...Items discussed in this tutorial are Installation Configuration Executing and searching Developing **OmniFind** extensions. (20 Aug 2007)
http://www.ibm.com/developerworks/edu/dm-dw-dm-0503buehler-i.html?S_T...

Distribute search results as RSS feeds using WebSphere Informati...

Distribute search results as RSS feeds using WebSphere Information Integrator **OmniFind** Edition. ...This is where WebSphere Information Integrator **OmniFind** Edition henceforth in this article known as **OmniFind** comes into play. ...WebSphere Information Integrator **OmniFind** Edition Version 8.3 should be installed on a dedicated server. ...**OmniFind** can be configured to associate documents with security tokens or access control lists. ...For a guided tour of the WebSphere Information Integrator **OmniFind** Edition register for the Intro to WebSphere Information Integrator **OmniFind** (20 Aug 2007)
<http://www.ibm.com/developerworks/db2/library/techarticle/dm-0604chit...>
[\[More results from http://www.ibm.com/developerwo... \]](#)

Search legacy data sources

...Use **OmniFind** to search legacy data sources using WebSphere Information Integrator Classic Federation developerWorks. ...and WebSphere Information Integrator **OmniFind** Edition referred to as **OmniFind** from this point on to crawl product information in a ...This technique can be used to crawl other sources that are not natively supported by **OmniFind** but which are accessible ...The user must have familiarity with WebSphere Information Integrator DB2 Universal Database UDB and WebSphere Information Integrator **OmniFind** Edition. ...3 **OmniFind** Edition Optionally CICS. (20 Aug 2007)
<http://www-128.ibm.com/developerworks/edu/dm-dw-dm-0602labrie-i.html?...>

IBM OmniFind Enterprise Edition V8.4 search quality tools

...These search tools allow the administrator of an IBM **OmniFind** Enterprise Edition installation to investigate attributes of the

Search resources

-----My recent searches----- GO

-----Popular w3 searches----- GO

- w3 Search news and information
- w3 Directory

Pages bookmarked by IBMers

- OmniFind Offering SPX**
OmniFind Offering SPX Component Model Documentation. ...
- Intro to WebSphere in**
intro to websphere information integrator omnifind edition omnifind search tutoria ...
- IBM Redbooks | WebSph**
ibm redbooks websphere information integrator omnifind edition fast track implementation omnifind redbooks this ibm redbook provides a detailed description of ...

[More bookmarked w3 pages >>](#)
[What is social bookmarking?](#)
Powered by dogear (join in social bookmarking)

Forums, blogs, wikis preview

- Unleash the Lab Boeblingen_G**
(23 Feb 2007)
- Content Management and Discov**
(07 Jan 2007)
- IBM forums : IBMCIOWriter...**
(17 Jul 2007)

Local intranet

Enterprise Search nel Portale B2B in VDMA



Problema

- Fornire una enterprise search veloce ed affidabile verso gli ambienti intranet ed extranet per la federazione delle aziende ingegneristiche tedesche
- Supportare 50.000 membri esterni, 250 autori interni, 1500-3500 visite al sito al giorno
- Estendere la ricerca di IBM OmniFind a IBM Web Content Management

Soluzione

- IBM Omnifind integrato con WebSphere Portal per l'accesso a pagine Web, file PDM, database Oracle e contenuti Lotus.



Benefici di business

- Accesso veloce e di elevata qualità agli utenti della extranet e intranet per le informazioni su partner e prodotti
- Migliorata la produttività degli utenti

Benefici tecnologici

- Codice di base stabile
- Facilmente personalizzabile



- **IFPMA** (International Federation of Pharmaceutical Manufacturers & Associations), è un'organizzazione no-profit, non governativa (NGO) che rappresenta le associazioni industriali nazionali e le compagnie farmaceutiche. Le aziende parte della IFPMA lavorano nell'ambito della ricerca farmaceutica, delle biotecnologie e dei vaccini.
- **Problema:** IFPMA Clinical Trials Portal – costruire un portale di ricerca nel quale pazienti e medici possano trovare I risultati dei test clinici effettuati sui farmaci.
- **Soluzione:** IBM ha vinto il bando di gara per lo sviluppo del portale di ricerca di IFPMA che consentisse a pazienti e medici di trovare con una singola search tutti I risultati dei test clinici pubblicati sia sui siti web delle compagnie farmaceutiche che nel central clinical trial database (es www.clinicaltrials.gov) . IBM ha disegnato una soluzione basata su WebSphere Portal con la tecnologia di ricerca di IBM OmniFind.



Intranet Search in ambito petrolchimico



Problema

- Dare la possibilità agli utenti della Intranet di poter ricercare i documenti contenuti nei database Domino profilati per i vari utenti
- Superare i limiti della search integrata nel portale
- Effettuare ricerche full-text e sfruttare la categorizzazione del portale

Soluzione

- IBM Omnifind è stato integrato nel Portale Domino per l'accesso profilato alle pagine della intranet.
- IBM Omnifind ha offerto la possibilità di poter effettuare ricerche di tipo full text, fielded, per sinonimi/acronimi e per categorie.

Intranet Search in ambito manufacturing



Problema

- Dare la possibilità agli utenti della Intranet di poter ricercare i documenti contenuti nelle pagine del portale, nel sistema di Web Content e nel file system
- Superare i limiti della search integrata nel portale

Soluzione

- IBM Omnifind è stato integrato nel Portale Websphere per l'accesso alle pagine della intranet, ai contenuti del Web Content Management e file system.
- IBM Omnifind ha offerto la possibilità di poter effettuare ricerche di tipo full text, fielded, per sinonimi/acronimi e per categorie.

Intranet Search in ambito ingegneristico



Sfide

- Dare la possibilità agli utenti della Intranet di poter ricercare i documenti contenuti nei database Domino profilati per i vari utenti
- Superare i limiti della search integrata nel portale

Soluzione

- IBM Omnifind è stato integrato nel Portale Domino per l'accesso profilato alle pagine della intranet.
- IBM Omnifind ha offerto la possibilità di poter effettuare ricerche di tipo full text, fielded, per sinonimi/acronimi e per categorie.

IBM Omnifind EE V8.5: scenari



• SISTEMI OPERATIVI:

- IBM AIX (64-bit systems)
 - AIX V5.2 (requires Maintenance Level 7)
 - AIX V5.3 (requires Maintenance Level 3)
- Linux for Intel (32-bit systems)
 - Red Hat Enterprise Linux Advanced Server V4.0, Update 3 e V5.0
 - Novell SUSE Linux Enterprise Server V10
 - Novell SUSE Linux Enterprise Server V9.0 with Service Pack 2(United Linux SP2)
- Microsoft Windows (32-bit system)
 - Windows 2003 Enterprise Edition with Service Pack 2
- Solaris (64-bit system)
 - Solaris 9, kernel SunOS 5.9

• SCENARI SUPPORTATI:

- ☺ 1 nodo
- ☺ 2 nodi
- ☺ 4 nodi



IFPMA Clinical Trials Portal

<http://clinicaltrials.ifpma.org/>



VDMA – Associazione tedesca produttori macchinari

<http://www.vdma.org/wps/portal/Home/en>



Rete Civica Oxfordshire

<http://www.oxfordshire.gov.uk/wps/portal/publicsite>



Transit New Zeland

<http://www.transit.govt.nz/index.html>

Alcuni link utili



Supporto:

<http://www-306.ibm.com/software/data/enterprise-search/omnifind-enterprise/support.html>

Redbooks

IBM OmniFind Enterprise Edition Version 8.4 Configuration and Implementation Scenarios

<http://www.redbooks.ibm.com/redpieces/abstracts/sg247394.html>

DeveloperWorks

<http://www-128.ibm.com/developerworks/db2/products/omnifind/>

Distribute search results as **RSS** feeds using WS Information Integrator OmniFind Edition

<http://www.ibm.com/developerworks/db2/library/techarticle/dm-0604chitiveli/>

Unstructured Information Management Architecture (UIMA) SDK

<http://www-128.ibm.com/developerworks/db2/downloads/uima/>



Thank
YOU

IBM Information
On Demand 2008
>>> Comes To You

ALLA LUCE DELL'INFORMATION ON DEMAND

Milano, 15 aprile 2008

