



Lotus software

IBM Lotus Extended Search 4.0

Highlights

- **Easily integrate search capability into e-business applications**
- **Find relevant information from multiple sources with a single search using only a Web browser**
- **Search in parallel across structured and unstructured data stores, including popular Web search sites, Lotus sources and content management applications**
- **Get aggregated results presented as a single, ranked result set**
- **Support scalable enterprise search requirements across departmental and geographic locations**
- **Save, reuse and share searches**
- **Store search results and forward them to workflow or personalization applications**
- **View shared searches to identify people with similar interests**
- **Start quickly with ready-to-use Web client search applications**

The information that you need to make intelligent business decisions is stored in different formats, database types and locations. To find it, you need to search both internal and external Web content and data sources. To help reduce the complexity of performing multiple searches in multiple interfaces, you need quick and efficient access to the most relevant data from a single interface that integrates with your current infrastructure.

For example, a new sales rep might need to quickly understand the background and current status of an important customer account. Customer information usually resides in a number of different places—such as a client support database, assorted Lotus databases, a competitor's Web site and in IBM Lotus® Domino™ Document Manager (Domino.Doc®), which manages your company's contracts and proposals.



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The Web interface for Lotus Extended Search presents ranked search results from multiple sources.

Simplify—and broaden—searches

Most likely, you are searching these types of data stores individually, using the unique access and navigational tools of each. With IBM Lotus Extended Search 4.0, you can search in parallel across different types of databases to locate and access relevant information with just one easy-to-use interface.

Lotus Extended Search 4.0 features scalable, server-based technology to search many content and data sources at once, then return query results to a Web browser or file system. The product operates on both Lotus Domino™ and WebSphere® application servers from IBM. It extends your search capability to multiple back-end data sources, such as other Lotus databases and products, relational databases, mail systems, indexes, file systems, document management systems, intranets and the Internet. With Lotus Extended Search 4.0, you can streamline access to internal and external information, help improve communications within your company and with trading partners, and help increase the effectiveness of your existing knowledge workers. By sharing simple, comprehensive search results, workers can access information stored throughout your business applications.

Retrieve information from multiple sources, in multiple formats

From a single user interface—a Web browser—you can simultaneously search thousands of distributed data and content sources. A single sign-on lets you retrieve the data without multiple logons to each source. You can browse results from all your sources in one consolidated list. Your users can get started quickly using familiar Web browser features.

Search results from any data source (such as discussions or customer tracking reports) are transparently merged with data returned from IBM Lotus Notes®, text, supported relational databases, Lightweight Directory Access Protocol (LDAP) systems and document management systems. Lotus Extended Search 4.0 adds links for IBM Lotus Instant Messaging (Sametime®), IBM Lotus Discovery Server™, IBM WebSphere Portal search engine and IBM Lotus Team Workplace (Quickplace®). You can also search and retrieve data from 18 popular Web search engines and content sources, including Yahoo!, Google, CNN and Business Wire.

Data sources searchable out of the box by Lotus Extended Search 4.0

Lotus Notes and Lotus Domino
Lotus Domino Document Manager (Domino.Doc)
Lotus Domino Domain Index
File systems and attachments not in compressed format
IBM DB2® Information Integrator
IBM DB2 Information Integrator for Content (EIP)
IBM SecureWay®
IBM DB2 information management software
Oracle
Sybase
Microsoft® SQL Server and Microsoft Access
LDAP
Document management systems
Lotus Instant Messaging (Sametime)
Lotus Discovery Server
WebSphere Portal search engine
Lotus Team Workplace (Quickplace)
Microsoft Exchange
Microsoft Index Server
Microsoft Site Server
LDAP server directories

Web search engines

Yahoo!	Canada.com
Lycos	EuroSeek
Excite	FAST search
HotBot	GoTo.com
Google	NBCi
Alta Vista	PR Newswire
ABCNews.com	WebCrawler
AOL.com search	Yahoo! News Headline Search
Business Wire	Web sources (XML)
CNN	

Integrate Lotus Extended Search into e-business applications

Open application programming interfaces allow you to integrate Lotus Extended Search functionality into new or existing applications, giving users the ability to retrieve crucial information automatically. You can perform searches within an e-business application and forward the results to your workflow or to other applications. With Lotus Extended Search, you have full control over the look and feel of your search applications. You can embed Lotus Extended Search functionality in several ways:

- *Use a Lotus Extended Search tag to provide an HTML-based search interface.*
- *Use Lotus Extended Search beans and tags to provide search capabilities in JavaServer Pages.*
- *Use Simple Object Access Protocol methods to provide Lotus Extended Search capabilities as a Web service and communicate search requests and result data in XML.*

Customize your search solution to fit your business

Whether you're using out-of-the-box search templates for Web browsers, or integrating search capability into a new or existing application, Lotus Extended Search is extremely flexible, with customization capabilities to fit your individual needs. Lotus Extended Search provides a toolkit that allows you to connect to additional legacy or proprietary data sources. Pre-configured portlets for WebSphere Portal are available, allowing you to easily integrate enterprisewide search capabilities into your customized portal. Lotus Extended Search can help boost performance by caching results to disk, load balancing, broker pooling and speedy retrieval.

Lotus Extended Search 4.0 may be used as a standalone search product and as an enhanced search portal for use with IBM DB2 Information Integrator, IBM DB2 Information Integrator for Content and WebSphere

Portal products. A Java™ technology-based administrative interface lets you easily add support for many other new servers and data source types. IBM DB2 Universal Database™ or Oracle relational database management service software stores configuration data to help provide more capacity and better performance and data management.

The unique architecture of Lotus Extended Search is highly scalable and supports complex configurations. For example, data and content sources can be geographically dispersed throughout departments or the world. They might be running on different platforms such as Microsoft Windows®, IBM AIX®, Sun Solaris or Red Hat Linux® for Intel®. With Lotus Extended Search, you can add support for other new sources and new types of sources, however complex or straightforward, as your enterprise expands and changes. Search results can be returned in XML format, making them easier to process in multiple applications.

Lotus Extended Search 4.0 does not require a centralized index. Instead, it accesses information directly using search and retrieve methods native to each connected data source. This design allows Lotus Extended Search 4.0 to provide a distributed, heterogeneous search across many different data repositories through a single, efficient and easy-to-use point of access. Advantages of this approach can include:

- *Current, updated information obtained directly from the data source*
- *Data remaining within its original source database, avoiding migration troubles*
- *No centralized index, leading to fewer overall storage requirements and eliminating the cost of re-indexing resources and duplicating data into a centralized index*

Wizards packaged with Lotus Extended Search 4.0 help simplify configuration. These wizards guide you through the processes necessary to make source servers and data available to search applications and users. The wizards help simplify the tasks of adding data

sources, configuring mapped fields, defining data source parameters, designing result sets and importing and exporting configuration data among Lotus Extended Search servers.

Manage security across content sources

With the ability to access data from a wide range of sources, security is an important part of the Lotus Extended Search architecture. With field usage restrictions, you can control which fields can be searched and retrieved. To help ensure that content is accessible only by authorized users, links to Lotus Notes, open database connectivity sources, Lotus Domino Document Manager and the Web let you use your user ID to connect to the data sources. Plug-in points allow for additional validation of user access and mapping of multiple IDs, in accordance with the rules of your organization.

Lotus Extended Search provides several layers of security that can help protect source content at various levels:

- *Web server user authentication*
- *Search application authentication*
- *Broker authentication*
- *Agent authentication*
- *Back-end data source authentication*

International versions

Lotus Extended Search 4.0 is enabled for National Language Support. It recognizes source data stored in different languages and returns that data to search applications. In addition, Lotus Extended Search 4.0 provides international versions of the documentation, administrative applications and sample search templates. The product has been translated into Brazilian Portuguese, Czech, Danish, Dutch, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Simplified Chinese and Traditional Chinese.

For more information

To learn more about how Lotus Extended Search 4.0 can help you access information more comprehensively and simply, visit:

www.lotus.com/extendedsearch

IBM Lotus Extended Search, Version 4.0 at a glance

Hardware requirements for UNIX® operating systems

<i>Item</i>	<i>Minimum</i>	<i>Recommended</i>
AIX processor	F40	F50 with 4 processors
Solaris processor	Sun Sparc E250 2x400MHz	
Linux for Intel processor	Intel Pentium® IV 1GHz	Intel Pentium IV GHz
RAM	1 GB	2GB
Virtual memory	1 GB	
Disk space	100MB (not including prerequisite software)	

Hardware requirements for Windows NT® and Windows 2000

<i>Item</i>	<i>Minimum</i>	<i>Recommended</i>
Processor	Intel Pentium 350MHz	Intel Pentium 550MHz or higher
RAM	256MB	512MB or higher
Virtual memory	500MB	
Disk space	100MB (not including prerequisite software)	

Software requirements

Supported Web clients

- Microsoft Internet Explorer, Version 5.01, Service Pack 2
- Internet Explorer, Version 5.5, Service Pack 2
- Internet Explorer, Version 6
- Netscape, Version 6.0 or higher

Supported server platforms

- Microsoft Windows NT, Version 4.x with Service Pack 4 or 6A
- Windows 2000 Server or Advanced Server with Service Pack 1
- IBM AIX, Version 5.1
- IBM AIX, Version 4.3.3 with maintenance level 4330-06
- Sun Solaris, Version 9
- Sun Solaris, Version 8
- Sun Solaris, Version 7 with maintenance update 4
- Red Hat Linux for Intel, Version 7.3 or higher

Web and application server (one of the following)

- IBM WebSphere Application Server, Version 4.0.4 or higher (Advanced, Enterprise or Advanced Single Server editions)
- WebSphere Application Server, Version 5.0.0 or higher (base, Network Deployment or Enterprise editions)
- IBM Lotus Domino 5.0.10 or higher

Additional requirements (one of the following)

- DB2 Universal Database, Version 7.2 with Fixpack 7
- DB2 Universal Database, Version 8.1, Enterprise, Workgroup or Personal Editions
- Oracle 9



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