

# IBM OmniFind Enterprise Edition Version 8.4

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## Highlights

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- ***Provides a rich enterprise search and text analytics platform for supporting secure corporate intranets and information extraction applications***
- ***Delivers highly relevant and language-specific search results, including improved findability through social and semantic search***
- ***Offers pre-built integrations to a broad range of content sources, including collaboration workspaces, databases, file shares, content repositories, and intranet and Web pages***
- ***Honors native security settings of many underlying repositories to reduce the risk of exposing sensitive information to unauthorized access***
- ***Provides secure best-in-class integrations to Lotus® Domino® and WebSphere® Portal to help maximize the value of those investments***

### Information On Demand

Today's organizations need unabated access to enterprise information.

People, processes and applications need the right information at the right time to support timely decision making and enable appropriate action. Information On Demand, the foundation of the IBM Information Management business, is a framework designed to help companies integrate, analyze and optimize heterogeneous information to manage risk and deliver new business insight.

IBM OmniFind™ Enterprise Edition, a key component of Information On Demand, delivers breakthrough enterprise search, discovery and analysis capabilities. Built on an open and extensible architecture, it offers a unique and powerful combination of performance, security, scalability, enterprise reach, and openness for applying advanced text analytics. OmniFind Enterprise Edition helps companies transform business by improving productivity, maximizing existing information assets and enhancing business insight. It is best suited for secure intranet deployments and information extraction application. In essence, this solution helps to get

the right information to the right person at the right time.

IBM also offers OmniFind Enterprise Starter Edition, an entry-level enterprise search offering that provides all of the flexibility and rich functionality of OmniFind Enterprise Edition in a scaled-down implementation. This cost-effective option lets companies start with a small implementation, and enables them to grow the solution over time as business requirements evolve. There is a seamless upgrade path to OmniFind Enterprise Edition.

### Highly relevant, language-specific search

The primary objective of search technologies is to deliver fast and relevant search results. OmniFind Enterprise Edition uses state-of-the-art ranking algorithms developed by IBM Research and advanced linguistic analysis based on IBM LanguageWare to deliver highly relevant search results. Not only does it evaluate and rank documents during preprocessing (before the index is built), it also includes a patented feature to rank results based on the type of query the search user enters.

OmniFind Enterprise Edition supports content and queries in over fifty languages, with advanced linguistic processing (including stemming and lemmatization) available for more than twenty languages, including Japanese, Chinese, and Korean.

### **Improving relevance through semantic search**

To dramatically improve the relevance of search results, OmniFind Enterprise Edition leverages the Unstructured Information Management Architecture (UIMA) to process text-based information and extract references to concepts such as people's names, telephone numbers, parts or conditions. The extracted metadata is added to the OmniFind Enterprise Edition index to enable semantic queries. For example, a search for the car called "neon" would exclude irrelevant references to "neon" lights, "neon" signs, or a "neon" advertisement.

OmniFind Enterprise Edition makes semantic search easier to realize by using synonym expansion as a way to bring conceptual understanding to keyword search rather than having to rely on special XML query syntax. It ships with a configurable annotator (text analysis component) that can detect concepts in unstructured text based on regular expressions. A sample configuration to detect phone numbers, URLs and e-mail addresses is included together with a matching synonym dictionary. The sample can be tailored to meet a specific customer's needs, e.g., to detect part numbers or product names, in a few simple steps.

### **Packaged integrations for broad content reach**

The information a knowledge worker needs relevant to a particular topic or business process is never stored in one place. It is often scattered across collaboration tools such as Lotus Domino and Windows® SharePoint® Services, content management systems such as FileNet® and Documentum®, file servers, databases, Web and intranet pages. OmniFind Enterprise Edition offers a rich library of pre-built integrations to various enterprise data and content sources to help companies unify vast amounts of diverse and widely-dispersed information into a searchable index. These ready-to-deploy integrations help reduce time-to-value and the total cost of implementing an enterprise search solution.

Pre-built connectors are available for the following data sources:

- *DB2 Content Manager Multiplatform*
- *DB2 Document Manager V8.3 (via Content Manager connector)*
- *DB2 Universal Database for Linux®*, *UNIX®*, *Windows*
- *DB2 Universal Database for z/OS®*
- *DB2 Universal Database for iSeries*
- *EMC/Documentum*
- *FileNet CS*
- *FileNet P8 CM*
- *Hummingbird DM*
- *Informix® Dynamic Server Version 9*
- *Lotus Domino Document Manager*
- *Lotus Notes®/Domino Server*
- *Lotus Domino QuickPlace®*
- *Microsoft® Exchange Server 2000*, *2003*
- *Microsoft SQL Server 2000*
- *Newsgroup (NNTP)*
- *OpenText Livelink Enterprise Server*

- *Oracle 9i*, *10g*
- *Sybase 11.9.2*, *12.0*, *12.5*
- *UNIX file systems*
- *Windows file systems*
- *Web (HTTP or HTTPS)*
- *WebSphere Portal Web pages*
- *WebSphere Portal Document Manager*
- *Windows SharePoint Services*, *Service Pack 2*, *for Windows 2003*
- *Workplace Web Content Management*
- *JDBC databases accessible through the JDBC crawler (IBM DB2 Universal Database V8.2, Oracle 9i, Oracle 10g, Microsoft SQL Server 2000, and Microsoft SQL Server 2005 databases through Type 4 JDBC drivers)*
- *Mainframe sources accessible through separate purchase of IBM WebSphere Information Integrator Classic Federation for z/OS (VSAM, IMS™, CA-Datcom, Software AG Adabas)*

For a complete and current list of supported data sources and required client software, visit [ibm.com/software/data/enterprise-search/omnifind-enterprise/](http://ibm.com/software/data/enterprise-search/omnifind-enterprise/)

Additional connectors can be built to other data sources.

Optimal performance with some content management sources may require some additional configuration services.

### **Addressing document-level security**

Enterprise search removes barriers to finding information, but it also places a burden on IT departments to make sure that sensitive content such as financial records, patient records, personnel records, and product research data is accessible only to authorized users.

OmniFind Enterprise Edition addresses document-level security in two phases. It indexes security tokens for each document to reflect the security configurations of the underlying repositories, and it also provides the option of verifying access privileges with the owning repository at query time to ensure the most current security settings are honored every time. This minimizes the risk of exposing sensitive information to unauthorized users, regardless of how frequently access privileges change.

The ability to verify authorization with the owning repository at query time is supported for the following data sources:

- Lotus Notes/Domino
- Lotus QuickPlace
- Domino Document Manager
- WebSphere Portal Document Manager
- WebSphere Portal Web Content Management V6.0
- WebSphere Portal pages
- IBM Content Manager Multiplatform
- FileNet Content Services
- FileNet P8 Content Manager
- Hummingbird
- Windows File System
- Windows SharePoint Services, Service Pack 2, for Windows 2003
- Documentum
- Open Text Livelink

OmniFind Enterprise Edition also supports single sign-on (SSO) authentication through WebSphere Application

Server Lightweight Third-Party Authentication (LTPA) for Lotus Notes/Domino, Lotus QuickPlace, Domino Document



Figure 1: OmniFind Enterprise Edition provides a scalable, highly available, and secure enterprise search and text analytics platform for maximizing the value of corporate information.

Manager, WebSphere Portal Document Manager, WebSphere Portal Web pages, and Workplace Web Content Management.

**Delivering a rich search experience**

OmniFind Enterprise Edition includes a highly customizable out-of-the-box search application that exposes advanced search features for a rich end-user experience.

This includes dynamic summaries based on query terms to help users easily determine the likely relevance of a document; “other meanings” synonym expansion for spell correction or one-click access to other potentially relevant queries; site collapse to limit the number of results from the same source; a Quick Links feature to display predefined Web pages at the top of the results list when certain keywords are entered; and more.

The OmniFind Enterprise Edition search application is easily customizable by making selections from within a graphical user interface.

**Scalable, open and extensible architecture**

OmniFind Enterprise Edition supports indexing and search of tens of millions

of content items. Indexing is multi-threaded to take full advantage of multi-server nodes and supports a delta index for incremental updates.

Also, OmniFind Enterprise Edition is used to power IBM’s own intranet, W3, covering over 8,000 Web sites, more than 25 million Web pages, and supporting over 300,000 employees.

OmniFind Enterprise Edition is more than a search engine. Leveraging the open source UIMA, it provides an extensible platform for processing unstructured information through text analytics. The extracted metadata is added to the OmniFind Enterprise Edition index to enable semantic queries, provide stand-alone business intelligence reports, or drive analytics applications.

The combination of a broad set of enterprise connectors, a full search and indexing Application Programming Interface (API), and UIMA make OmniFind Enterprise Edition an open platform for integrations on the front end to back end data sources, and to information extractors during the indexing pipeline. Integrations to desktop search tools, such as Google



Desktop and X1, are also available. Supported platforms for OmniFind Enterprise Edition include:

- *Red Hat Enterprise Linux AS 4*
- *Microsoft Windows 2003*
- *IBM AIX 5L™ Version 5.2, 5.3*
- *SUSE Linux Enterprise Server Version 9*

For a more detailed and up-to-date list of prerequisite software, visit [ibm.com/software/data/enterprise-search/omnifind-enterprise/](http://ibm.com/software/data/enterprise-search/omnifind-enterprise/)

### WebSphere Portal integrations

Additionally, OmniFind Enterprise Edition is designed to integrate with WebSphere Portal to provide scalable and secure enterprise search directly from within the familiar WebSphere Portal interface. This integration provides several enhancements to the embedded Portal Search Engine, including the ability to scale to millions of documents and secure search of non-Web enterprise content sources.

WebSphere Portal customers can take advantage of OmniFind Enterprise Edition in a couple of different ways. They can search OmniFind Enterprise Edition collections through the familiar Search Center portlet, or they can use the quick-to-deploy OmniFind Enterprise Edition search portlet and access all of the rich search functionality available in OmniFind Enterprise Edition directly through WebSphere Portal. The integration also includes the ability to crawl WebSphere Portal Document Manager, WebSphere Portal Web pages, and Workplace Web Content Management out-of-the-box

using native security.

### Optimized for Lotus Domino

OmniFind Enterprise Edition is designed to be the search engine of choice for Lotus Domino customers, providing much richer search capabilities than Domain Search, and offering secure integrations to Lotus Domino. This includes a dedicated Lotus Notes/Domino crawler, a search application that can open documents using the Lotus Notes client, indexing of all Domino fields, including attachments, to enable fielded search, and support for Lotus Domino on Linux, UNIX, Windows, and System i™ platforms.

### For more information

To learn more about IBM Content Discovery solutions, contact your IBM sales representative or IBM Business Partner, or visit [ibm.com/software/data/enterprise-search](http://ibm.com/software/data/enterprise-search)

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