

ORACLE COLLABORATION SUITE ORACLE ULTRA SEARCH

ORACLE SEARCH

NEW IN ORACLE COLLABORATION SUITE RELEASE 2 SEARCH:

- Support for various new attribute types, including date ranges, and list-of-values (LOV)
- Improved Query APIs and new support for JSP tags
- Integration with 9iASPortal - native crawling of Portal instances
- Crawler Extensibility API - Java API to adapt the Ultra Search crawler to index and search data sources
- Relevance boosting - adjust the ranking of search results
- Display URL support - render the result of database crawls in a Web screen

SEARCHABLE REPOSITORIES

- HTML pages served up by a Web Server.
- Database Tables - Search Oracle databases and any other databases that support the ODBC standard. Database tables can reside in Ultra Search's own database instance or they can be part of a remote database accessed over a network. Both full text columns and "fielded columns" can be crawled.
- Files - Local or remote files can be made searchable through the file:// protocol.
- Extensibility mechanism allows adopting the crawler to new repositories.
- Oracle9i Application Server Portal repositories — including public Portal pages, folders, subfolders and text items.

HIGH PERFORMANCE, SCALEABLE CRAWLING

- Multi-threaded Java crawler. · Gather from multiple Web sites and other data sources, each on a different schedule.
- Flexible deployment model supports a variety of crawler configurations tuned to increase the crawling throughput
- Crawler can be adopted to crawl new repositories through an extensibility API.
- Supports multiple crawlers; set up the Ultra Search crawler to run on multiple machines via remote crawling
- Link relationships are mapped and analyzed to avoid going in circles and taking wrong turns.
- Limit crawling to specific sections of your Intranet by setting 'inclusion' and 'exclusion' domains for crawls.

FLEXIBLE, EASY-TO-INTEGRATE QUERY FRAMEWORK

- Integrate powerful search with your

Oracle Ultra Search, a feature of Oracle Collaboration Suite, Oracle9i database and Oracle9i Application Server, is a Web-based, "out-of-the-box" search solution that provides search across multiple repositories - other Collaboration Suite applications, Oracle databases, IMAP mail servers, HTML documents served up by a Web server, Oracle 9iAS Portal, files on disk and many more. Ultra Search enables a "portal" search across the content assets of a corporation, bringing to bear Oracle's core capabilities of platform scalability and reliability.

Issues in Corporate Search

In the age of the Internet, proliferation of information is causing a new information management crisis for enterprises. Using the World Wide Web, workers become their own information retrieval experts. But searching for the right answers can be more than frustrating: Information is ultimately stored in corporate databases, Web pages, files in various popular document formats and in email or groupware systems. The information that businesses produce, store and use for decision making is scattered across billions of documents and data fragments that reside on many different, and often incompatible, IT servers and systems. Servers are located throughout the country and across the globe. Corporate information is distributed across enterprises in both structured and unstructured form - structured relational databases, unstructured Word-processing documents, spreadsheets, presentations. As applications demand transactional consistency, coordinated multi-user access, administration and maintenance for content, a natural gradient is created to move more and more corporate information into databases. However, even when multiple databases are involved, searching across databases needs a robust solution.

The lost time in searching costs companies billions of dollars in lost productivity each year. Bad search can also drive customers to competitor's Web sites. A company can have great products and terrific looking Web site, but if customers and employees can't find the information they are looking for, they have essentially wasted time and money spent on development and promotion.

Collaboration Suite Search and Oracle Ultra Search

Collaboration Suite Search allows you to find what you want - inside the collaborative applications of the Suite, Email and Files, and outside the Suite, on your corporate network.

Collaboration Suite Search consists of two components, Federated Search and Oracle Ultra Search, which work together to find what you want within the Suite and on your corporate networks. Federated Search, a "Search Federator", accepts search terms from end users through the Collaboration Suite Search page, brokers them to other Collaboration Suite Components and displays an integrated list of search result hits from Oracle Email, Oracle Files and web servers crawled by Ultra Search. Oracle Ultra Search, a web based out-of-the-box search engine solution that searches across multiple repositories: Relational databases, HTML documents served up by Web servers, Oracle9iAS Portal, files on disk, IMAP mail servers and more.

Ultra Search uses a "crawler" to index documents; the documents stay in their own repositories, and the crawled information is used to build an index that stays within a designated Oracle database. No crawling is required for finding a piece of information inside other Collaboration Suite applications. Oracle Email and Oracle Files build their own index, which is updated automatically when new electronic mail arrives in Oracle Email or when a new file gets uploaded into Oracle Files. Indexing upon arrival, and not on a fixed periodic schedule, ensures that search results are always fresh and current. Oracle Email can be configured to index subject, body text and even attachments of electronic mail messages.

Oracle Ultra Search

Web servers and other document stores can be crawled with Ultra Search, which is built on Oracle's highly scaleable and proven database server and Text technology. Ultra Search presents a Web-style interface where users can specify, for example, to indicate "Oracle +Location -France" to indicate they want to retrieve all documents,

application or create new custom search applications by means of Ultra Search Query API's

- Special Ultra Search "Portlet" allows for putting Ultra Search onto your Oracle 9i Portal pages
- Java API; compatible with a large spectrum of Web application servers that support Java server pages (JSP 1.0 or higher).
- Insert Ultra Search query input boxes and result lists in your Web application
- Customize the look and feel of your search per your taste through special HTML presentation functions.
- Retrieve metadata from Ultra Search, including available data sources, national language settings and search attributes.
- Shortens development cycles by including functionality for encapsulating commonly performed Web development tasks.
- Supports several attribute types, display names for attributes, attribute list-of-values (LOV), document relevancy boosting
- Display URL feature lets you render database search results according to an associated database Web application.

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RELATED PRODUCTS AND SERVICES

The following products are available as part of Oracle Collaboration Suite:

- Oracle Email
- Oracle Voicemail & Fax
- Oracle Files
- Oracle Web Conferencing
- Oracle Wireless & Voice
- Oracle Ultra Search

FOR MORE INFORMATION

www.oracle.com/ip/dep/oc4j

Technical Information:

otn.oracle.com/products/cs/content.html

database records or email containing the terms Oracle and Location, but not the term France. Ultra Search uses a "crawler" to index documents; the documents stay in their own repositories, and the crawled information is used to build an index that stays within your firewall in a designated Oracle database. Ultra Search thus enables a "Portal" search across the content assets of a corporation without the need for re-architecting IT topologies, compromising security, or programming against hard-to-use APIs.

Text Search over Multiple Repositories

Oracle Ultra Search searches text that exists in structured relational databases and in unstructured files, word processing documents, spreadsheets, presentations, e-mail, news feeds, Adobe Acrobat files, and Web pages. It gathers this information by "crawling" your corporate intranet and looking through all the information that exists in the various repositories of your company - databases, Web pages, IMAP mail servers and others. Ultra Search features a multi-threaded Java crawler that can be set up to run on one or more machines separate from your database. These machines are called remote crawlers.

Ultra Search uses Oracle's industry leading Text retrieval engine to extract both meaning and structure from the gathered information by creating an integrated index, effectively "normalizing" both structured and unstructured data. The Oracle Text filtering technology automatically identifies document type, invokes the correct filter and produces indexable text and data. Filters are provided for most (150+) popular file types. Unlike some document management systems, Ultra Search gathering is non-intrusive - documents are analyzed, but are physically left in their original location under their own name.

A flexible metadata mapping methodology that lets you unify diverse repositories in common logical terms for search purposes is one of the big value-adds of Ultra Search. Ultra Search extracts many predefined metadata fields from your documents, including author, date, and title of your document. Map the extracted metadata information to Ultra Search attributes for a powerful combination of full text retrieval and "fielded" text retrieval.

Complete Web-Based Administration and Query Environment

Oracle Ultra Search is simple to use and deploy because it is based on the open standards of the Internet. A query framework lets you create new search applications or embed powerful search into your existing Web applications. No scripting or in-depth knowledge of SQL syntax is ever required; use browser-based, self-service Web pages to manage all search engine functions.

Ultra Search lets you create custom search applications that work with any type of information by means of a set of query API's. These API's can be used from Web applications to retrieve and display query results. Administrators can integrate search with back-end systems for powerful new search capabilities. Query API's are offered for Java and are compatible with a large spectrum of Web application servers that support Java Server Pages (JSP). Ultra Search Query API's can be used to insert query input boxes and query result lists into any Web application and they can also be used to customize the look and feel of your search per your taste. Web-style Query Interface To shorten your development cycles, Ultra Search includes a fully functional query application for users to query and display search results. The query application comes in Java (JSP) and also incorporates an email browser for reading and browsing emails that have been gathered and indexed.

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