

Livelink Discovery AIR Toolkit™

Advanced search facilities for Livelink Discovery Server™

What is Livelink Discovery AIR Toolkit?

Livelink Discovery AIR Toolkit provides a set of advanced information retrieval and analysis tools that enhance the capabilities of Livelink Discovery Server (formerly BRS/Search) applications. As the amount of information in document collections continues to expand, it becomes increasingly important to provide users with additional tools beyond the standard ranked list of documents in response to a search query—tools that can help users find more relevant information and help them understand the information for both its content, and its context.

The screenshot displays the BRS/Search Java Toolkit interface. At the top, it shows 'Mined Results' for the 'MINE - Sample Database with Mining Information'. The interface includes a navigation bar with icons for Simple Search, Expert Search, Category Search, Index Browse, Category Browse, Thesaurus Browse, History, Change Database, and Engine Command. Below this, there are 'Refine' and 'Search' buttons. The main content area shows '8 Results Found' with a 'Cluster' and 'Mine' button. The results are listed in a table with columns for 'Concept' and 'Rating'. The first result is 'Picasso, Pablo (pee-kah'-soh)' with a 99% rating. The second result is 'Animation' with an 89% rating. The third result is 'Gardening' with an 88% rating. The fourth result is 'Navajo (nah'-vuh-hoh)' with an 88% rating. The fifth result is 'Houdini, Harry (hoo-dee'-nee)' with an 87% rating. Each result includes a brief description and a 'Find similar documents' link.

Benefits

- **Leverages Existing Database Content**— AIR Toolkit provides your knowledge workers with overviews and themes within existing databases and specified result sets. This allows users to be aware of different facets of information within the database and find previously hidden or obscured information and trends.
- **Improves Productivity**—AIR Toolkit helps your knowledge workers to spend less time looking for relevant information and more time using it. With the AIR Toolkit, users can search Livelink Discovery Server databases and targeted Web sites by specifying a single document as query and receive a unified set of relevant results that match the targeted document. This provides the benefit of using a thesaurus without actually having one.
- **Provides Greater Return On Livelink Discovery Server Investments**—Livelink Discovery Server includes many advanced search features, such as Boolean and metadata searching, natural language querying, result clustering, hit highlighting, ANSI thesaurus browsing and more. With the AIR Toolkit, these features can be extended to include automatic document clustering, semi-automatic taxonomy generation, and database analysis via name, place, and concept extraction.

Features

- Provide retrieval and analysis tools that are completely integrated with Livelink Discovery Server at the function level, and compatible with all Livelink Discovery Server interfaces and interface development tools.
- Provide concept mining allows users to get an overview of the organizations, people, and other concepts that are significant in a set of documents—the technology analyzes documents in a result set, or in an entire database, and selects the concepts that are deemed to be most important. The resulting lists of organizations, people, and/or other concepts can be presented to the user for browsing and subsequent searching. Using concept mining, developers can:
 - Extract personal names, company names or generic concepts.
 - Customize name extraction with several options.
 - Use the automatic search enhancement option of concept mining to return most similar documents to the target documents.
- Cluster documents to give users an overview of the range of topics discussed in a set of documents—in addition to (or even in place of) a standard result list, applications using document clustering can present a list of subtopics found in the retrieved documents. With document clustering, developers can:
 - Produce a list of clusters of similar documents.
 - Produce a ranked list of keywords and phrases describing each cluster.
 - Provide a ranked list of documents for each cluster.
 - Generate taxonomies based on the content of the database.
- Provide Query By Example (QBE) technology to analyze example text, provided by the user, and select the terms that are deemed to be most characteristic of the topic—QBE then performs a search on those terms and creates a ranked list of the document that match most closely. With QBE technology, developers can:
 - Use the entire documents, specific fields/paragraphs or any passage of text.
 - Add user-specified weights and terms if desired to bias the query toward a particular sub-topic.
 - Generate a ranked list of documents satisfying that query.

Technical Requirements

- **Livelink Discovery Server Versions Supported**—Works with Livelink Discovery Server 8.1 on all supported platforms.
- **Livelink Discovery Server AIR Toolkit Server Operating Systems**—Runs on Microsoft Windows NT, Windows 2000, and Sun SPARC/Solaris, HP-UX, HP/Compaq Digital Unix, and IBM RS/6000 AIX.

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