	dance and Federated Searching efits of Alacra's Process
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www.alacra.com	

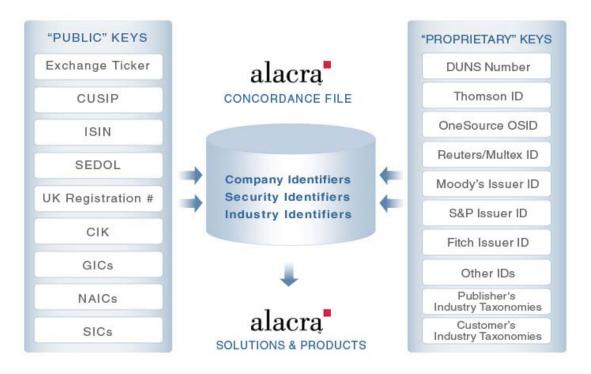
Overview

Alacra is constantly seeking innovative ways of enhancing our search results, especially when it relates to federated searching across a multitude of information provider databases. Finding the perfect balance between precision and recall enables us to provide the most relevant content to our clients. Alacra's approach to achieving this goal is through the integrated use of our propriety search algorithms and concordance methodologies which have been built, maintained, and tested by our experienced team of content analysts.

Alacra Concordance is the process of cross-referencing Alacra's authority files to the authority files of the numerous information providers available through our suite of products. This white paper illustrates how concordance (company/security, industry AND country), along with our proprietary search algorithms and syntax options, interact seamlessly to provide a comprehensive set of content via a single search interface. This unique approach to federated searching can save an organization countless hours in redundant work. It allows users to dedicate their limited time on the more crucial aspects of their research, such as relevancy analysis, and not the cumbersome task of navigating unfamiliar taxonomies and/or corporate authority files.

Alacra Concordance

When a content provider becomes part of Alacra's data warehouse, all company, security, industry, and geographical meta-data is thoroughly analyzed and cross-referenced to the corresponding authority files in Alacra; the linkages are then stored in their appropriate concordance maps. Cross-referencing guarantees search recall of all relevant content on a particular company, security or industry in our suite of databases. As part of our content acceptance process we employ rigorous quality control mechanisms, ensuring that Alacra's authority files and concordance are accurate and current.



Company / Security Authority Files

Alacra currently tracks over 46,000 global public companies, 50,000 equity securities and over 350,000 private companies in its corporate and security authority files. The corporate authority file contains the entity's primary contact information, former name history, as well as industry classification based on Alacra's taxonomy, SIC, NAICS, & GICS methodologies. If a company is publicly traded, it is linked to one or more security records containing an equity description, ticker symbol, exchange listing information, and various security identifiers (Cusip, Sedol, ISIN, CIK, etc.).

Company / Security Concordance

When Alacra performs corporate and security concordance, we cross-reference the information provider's unique corporate or security identifier (Cusip, Sedol, ISIN, Ticker, etc.) to Alacra's corporate and/or security authority files and store the linkage in our proprietary Company/Security Map platform. This platform enables Alacra to provide a single point access to corporate and/or security level information from a multitude of content providers. Alacra Concordance provides all the necessary keys to access all company/security related content or specific datasets that are used to populate company snapshots, tearsheets and portals.

The Alacra Company snapshot illustrates the integration of both Alacra's company/security files & concordance:

Public Company Snapshot The Edgar Charts The Company/Security security identifier is Altria Group, Inc. details are sourced by 120 Park Avenue New York, NY 10017-5592 United States Tel: 1/21/2800-5000 Fax: 1/21/2/807-5430 URL: http://www.altria.com/ used to access and Alacra's master display stock chart authority file. Formerly known as: Philip Morris Companies Inc. Reuters Identifier is Primary Symbol & Exchange: used to provide the MO - New York Stock Exchange Reuters Fundamentals Other Symbol & Exchange: Reuters Fundamentals Business Description: The Reuters Identifier SERIEF: For the six months ended 30 June 2005, Altris Group, Inc.'s revenue increased 4% to 550.120. Net income from continuing operations increased 13% to 55.018. Revenue reflects an increase in earnings from Ommestic Tobacco, International Tobacco and International Food business segments. Net income also reflects increase in group sprift margin, a decrease in asset impairment & exit costs and lover interest & other debt expense. **Business Description** is used to access Primary Industry: SIC Industry Codes: company financials 2032 - Canned Specialties from Reuters 2041 - Flour and Other Grain Mill Products More Information from Reuters Fundamentals 2082 - Malt Beverages Similarly, the TF Extel **Fundamentals** 2111 - Cigarettes Thomson Financial Extel Business Description: identifier is used to source - Investment Advice Unomotion Eminical Extol Distincts Description:
The Group's principal activities are to manufacture and market various consumer products, including cigarettee, goocery products, enacks, bewrages, cheese and correveient meals. The activities are carried out through its subsidiaries: Philip Morris USA Inc. Philip Morris International Inc, Kraft Foods Inc and Philip Morris Capital Corporation. Philip Morris USA Inc. manufactures and markets cigarettes in the United States. Philip Morris International Inc manufactures and markets cigarettes internationally. The major brands include Mariboto, Philip Morris, Parlament, Virginia Silms and others. Kraft Foods for manufactures and markets branded foods and beverages in the United States, Canada, Europe, the Middle East, Africa, Latin America and Asia Pacific. The products are marketed to distributors, wholesalers, retailers, state-owned enterprises and armed senices. and display the TF Extel **NAICS Industry Code: Business Description** GICS Sub-Industry: Tobacco S&P Issuer Identifier is Market Cap: 175453 (\$million) used to source credit 97854 (\$million) P/E Ratio: 15.66 ratings from the S&P for Sep 1 2008 - Reutes Fundamentals) RatingsXpress Credit armed services. S&P Credit Rating: More Information from TF Extel Research Database Long Term Rating: (Dated Aug 10 2008 - SSP Rat RRR+ Subsidiaries: Covered by Alacra: Kraft Foods Inc. NEW REFINE MORE SEARCH RESULTS Thomson Financial Investext (Search Results 1 to 10 of 1150) Subsidiary information is sourced by Alacra's corporate authority file ALTRIA GROUP INC ALTRIA GROUP INC A.G. EDWARDS & SONS, INC MO. THE QUESTION OF THE DIVIDEND AT ALTRIA - NOT JUST THIS MONTH, BUT LONG-TERM MERRILL LYNCH MORNING MEETING NOTES ALTRIA GROUP: FAVORABLE DOJ RULING - BOOSTING PRICE OBJ ALTRIA GROUP: Favorable DOJ ruling - bootting price obj. MERRILL LYNCH RESEARCH MO. DOV - LOOKS JUST AS GOOD UP CLOSE AS IT DID AT FIRST GLANCE PRUDENTIAL EQUITY GROUP, INC. MO: D.K., Now Pop the Cost A.O. EDWARDS & SONS, INC. All premium database J.P. MORGAN provider links are concorded DEUTSCHE BANK SECURITIES INC. Altria Group: Decisive victory clears way for KFT spin via their respective identifiers. These identifiers unlock all Company Profiles & Financials Credit & Investment Research company indexed content Corporate Board Member CorpTech High Tech Profile D&B (from Dun and Bradstreet) CreditSights First Call Notes First Call Research Direct Datamonitor Profile FitchResearch Harris InfoSource Manufacturing Profile Hoover's Company Records Media General Company Financials Investext Investment Research Moody's Global Credit Research Reuters Research Reports S&P RatingsXpress Credit Research Mergent Company Financials OneSource Company Reports S&P Stock Reports Reuters Fundamentals - Common Stock SharkRepellent.net TF Card
TF Extel Company Financials
TF Worldscope - Common Stock TF Morning Meeting Notes Value Line Tearsheet Share Ownership Market Research Common Stock
 LionShares Share Ownership TF Share Ownership TF/Carson Share Ownership Deal Information Thomson Insider Data M&A Monitor Mergerstat M&A Thomson Ownership Vickers Share Ownership TF Worldwide Joint Ventures TF Worldwide Mergers & Acquisitions TF Worldwide New Issues News FORM Business & Industry News News from Factiva Earnings Estimates First Call Earnings Estimates VB/E/S Earnings Estimates - Common Stock Reuters Estimates - Common Stock Newstex SourceMedia Filings & Documents Investment Risk Models Global Securities Information, Inc. Barra Beta Book Perfect Information Company Filings TF Disclosure Company Filings Stock Charts Common Stock
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Industry Concordance

Industry concordance enables users to access industry-specific content from publishers simultaneously by navigating a single taxonomy. Here the industry terms of the navigational taxonomy are cross-referenced to the corresponding industry terms of the content provider's taxonomy and stored in what Alacra refers to as the Industry Map. Below are some examples of navigational taxonomies utilized by our clients:

- Alacra's taxonomy consists of 100 relevant industry groupings.
- The Global Industry Classification Standard (GICS) developed by MSCI and S&P to meet the special needs of the investment banking community.
- SICs/UKSICs specializing in a manufacturing based economy.
- NAICs intended to be the replacement of the SIC classification system representing the transition from a manufacturing to a service economy.
- Custom taxonomy a taxonomy built to suit an organization's business needs.

Each taxonomy's strength is determined by its focus. For example, GICS has very specialized terms for various topics within the investment community. In developing industry mapping methodologies, Alacra has gained a deep insight into the complexities involved in cross-referencing any form of standardized or custom taxonomy to extract the most relevant content from any information provider's warehouse.

In the diagram below we have included several examples of Alacra's industry concordance for Alacra's **Real Estate** industry. If you look at the mapping for S&P RatingsXpress Credit Research (in bold) you'll notice that we use S&P/MSCI's GiCS classifications methodology to link our taxonomies.

Industry Concordance for Alacra's Real Estate industry:

Source Industry Identifiers

	madely identifier
ABI/INFORM	KW=(SU=(Commercial real estate or Real estate or Real estate agents & brokers or Real estate closings or Real estate developments or Real estate financing or Real estate sales))
Business & Industry	IN="Real+estate"
Mergermarket Intelligence	(IN="realestate"+OR+IN="rentallease")
Mergerstat	IN="42"
Oxford Analytica	TI=(real estate or REIT)
S&P RatingsXpress Credit Research	(IN="4040" OR IN="404010" OR IN="40401010" OR IN="40401020")
Snapdata International Group	(IN="Personal+Services"+AND+TI=real+estate)
TF Investext	IN="REAL ESTATE"
TF Market Research	IN="REAL ESTATE"
TF Mergers & Acquisitions	IN="DD"
TF Venture Economics	IN="9220"
TF Worldscope	IN="4380"

Country Concordance

When performing Country Concordance, Alacra analyzes the information provider's geographical meta-data, cross-references it to Alacra's geographical authority file and stores

the linkage in its Country Map. In addition, Alacra can customize geographical maps based on the client's geographical coverage and/or special regional groupings.

In the diagram below, we have included several examples of Alacra's country concordance for Alacra's geographical term **United Kingdom.** Again, If you look at the mapping for TF Market Research (in bold) you'll notice that they index all the constituent regions (ENG=England, NIR=Northern Ireland, SCO=Scotland, UKD=United Kingdom, WAL=Wales) of the United Kingdom separately. In order to extract all UK related content from TF Market Research we use the OR operator to join all the different region of the United Kingdom.

Country Concordance for Alacra's geographical term <u>United Kingdom</u>:

Source	Geographic Identifiers
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ABI/INFORM	((GEO="Channel Islands" OR GEO="England" OR GEO="Falkland Islands" OR GEO="Scotland" OR GEO="United Kingdom") AND (GN="Channel Islands" OR GN="England" OR GN="Falkland Islands" OR GN="Scotland" OR GN="United Kingdom"))	
Business & Industry	GC="UNK"	
Datamonitor Premium Research Reports	(GEO="United+Kingdom"+AND+GN="United+Kingdom")	
Forrester	TI=((United+ADJ+Kingdom)+OR+(UK)+OR+(U/K/)+OR+(England)+OR+(Scotland))	
Mergerstat	(GN="EN" OR GN="NN" OR GN="SC" OR GN="WA")	
Oxford Analytica	(GN="Northern Ireland" OR GN="United Kingdom")	
S&P RatingsXpress Credit Research	(GN="CHI" OR GN="GBR" OR GN="MAN")	
TF Investext	((GN="ENG" OR GN="NIR" OR GN="SCO" OR GN="UKD" OR GN="WAL") AND TI= (united kingdom or UK or england))	
TF Market Research	(GN="ENG" OR GN="NIR" OR GN="SCO" OR GN="UKD" OR GN="WAL")	
TF Mergers & Acquisitions	(GN="GG" OR GN="ST" OR GN="UK" OR GN="WL")	
Alacra Company Snapshots	GCODE="915"	
TF Worldscope	GN="826"	

Keyword Search Syntax

Alacra standardizes the search syntax used to query all databases in the Advanced Database Search application. The user only needs to understand a single search syntax format to query the main search indexes (keyword, title, industry, and country). This standardization streamlines the keyword search process by providing a common language for communicating with any provider database, as well as eliminating the time-consuming process of mastering a wide range of vendor-specific syntax languages and/or acronyms. Currently, we offer both Web and Boolean searching capabilities to flexibly accommodate a wide range of user searching experience.

Web Syntax

Web syntax is Alacra's default syntax. It provides the user with basic phrase searching functionality. This syntax is commonly used by many other web-based products.

Sample searches:

Entering two words together uses ADJ5 (adjacent within 5 words) logic. **Cable modems** searches for documents with the word cable and the word modems, provided that modems follows within 5 words after cable.

"Cable modems" in quotations, searches for the exact phrase cable modems. Preceding a word with a minus sign (-) requires that the word not be found in any of the retrieved documents. For example **cable -modems** will search for documents that contain the word cable but NOT the word modems.

Boolean Syntax

Boolean syntax is available for those familiar with Boolean searching. Boolean logic operators, multiple levels of parentheses, and the ability to specify searched index are key features. Boolean syntax requires a certain level of searching sophistication yet it is unparalled in its ability to increase the precision of searches. Below are the Boolean operators permitted in Alacra's Advanced Database Search.

Operator	Action	
()	Parentheses are used to group terms or to override normal term precedence. For example, price and (copper or steel) .	
AND	Finds only data sets containing all of the specified words. price AND copper finds data sets with both the word price and the word copper .	
OR	Finds data sets containing at least one of the specified words or phrases. price OR copper finds data sets with either the word price or the word copper . The found data sets may contain more than one of the specified terms, but do not have to.	
NOT	Excludes data sets containing the specified word or phrase. copper NOT steel finds data sets with copper but not containing steel . NOT cannot be used as a unary operator, that is, queries like NOT steel are not supported. NOT may only be used to join two parts of a query together.	
ADJ	Finds data sets containing words in ordered proximity to one another. cellular ADJ telephones finds data sets where cellular is immediately followed by telephones . You may optionally add a number to the end of the ADJ term to allow more space between words. For example, cellular ADJ5 telephones will find data sets where telephones follows cellular by 5 words or less - cellular ADJ23 telephones will find data sets where telephones follows cellular by 23 words or less. There is no practical limit to the number of words between terms specified other than the lengths of the indexed data sets themselves.	
NEAR	Finds data sets containing words in proximity to one another without respect to word order. For example, price NEAR copper finds data sets where price and copper are next to one another in any order. price NEAR10 copper finds data sets where price and copper are within 10 words of one another.	
IN=	Allows searching of alternative indexes from any text-input box. Replace <i>IN</i> with the 2-character index code from the table below. Note that once an alternate index is specified, subsequent terms at the same level of precedence are searched in that index. Multiple <i>IN</i> = operators may appear in the same query. For example, the query bottled juice and ct=(market share or market size) will search for information containing bottled juice in the basic index and having market share or market size in the concept term index.	

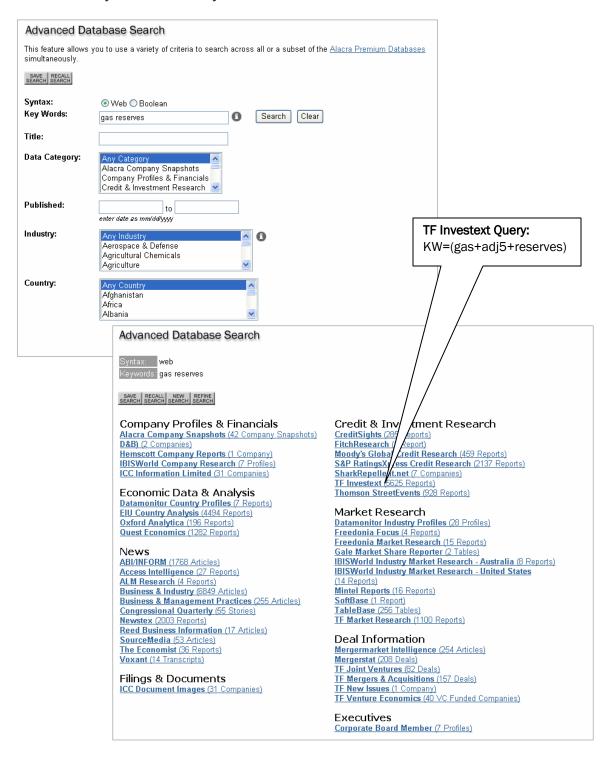
In Boolean, you may also use any of the following search prefixes to target your search against any of the alternate indexes that Alacra offers.

Search Prefix	Field Name	Example
KW=	Keyword	KW=mutual funds
TI=	Title	TI=automobile
IN=	Industry	IN=Automotive
GN=	Country	GN=France

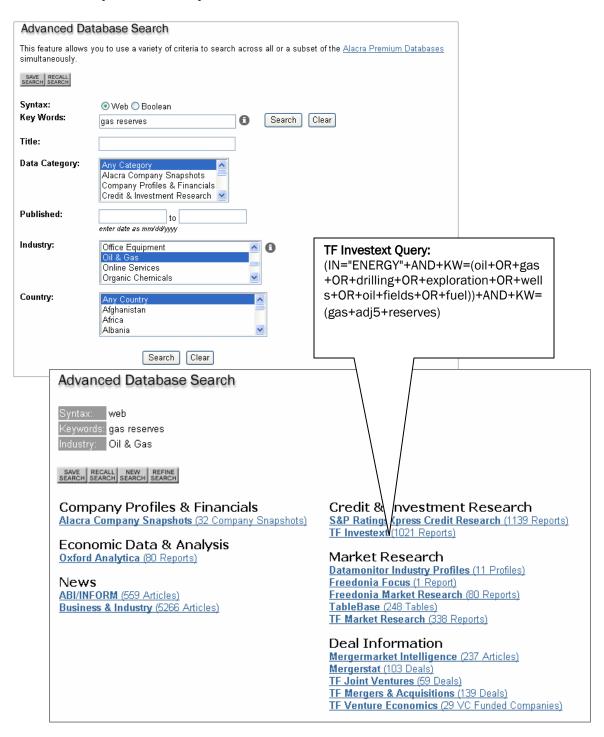
Federated search comparisons

This section is composed of three search queries using Alacra's Advanced Database Search application, which provides the optimal environment to analyze the benefits of Alacra's federated search capabilities. The following three examples will illustrate the decrease in recall once industry and country concordance are activated to refine a keyword search.

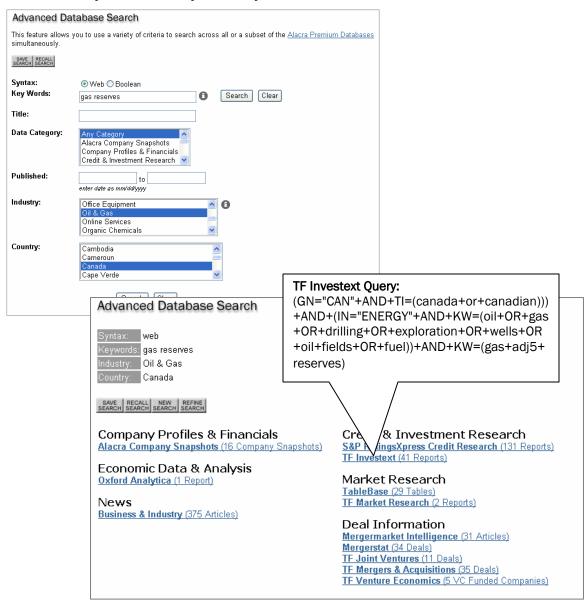
Search 1 - Keyword Search Only:



Search 2 - Keyword + Industry



Search 3 - Keyword + Industry + Country



This whitepaper has explained Alacra's distinct approach to federated searching with the use of our company, industry, and country concordance developed through ten years of research and client feedback. Our integrated approach enhances the accuracy and efficiency of navigating through the plethora of business content available today. We invite you to experience the power of concordance by visiting http://www.alacra.com (subscribers only) or our Alacra Store at http://www.alacrastore.com.

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