

iFinder **5**elastic

Enterprise Search for Your Business

Product Information



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Every company is encountering many challenges facing the field of information retrieval. Data sources and data diversity increase and at the same time employees expect to get an insight into the corporate information relevant for the working process flexibly and independently at any time. For many years IntraFind deals with exactly these challenges and offers an intelligent solution with the product iFinder.

IntraFind supports you in always having knowledge in the form of information on hand, regardless of the application in which they were created or stored. By means of extensive and powerful connectors IntraFind taps important data sources (e.g. file systems, portals, websites) and thus ensures that company-wide documents and information are findable quickly and right-checked.

Contents are processed, evaluated and connected based on newest text and content analytics methods. Thus, the iFinder goes far beyond classic full-text search. At any time, every employee of a company can gain insight into for him important and relevant corporate data. This way it is possible to combine existing knowledge with new findings and requirements and to make better decisions.

„With its sophisticated search capabilities the iFinder has a high level of acceptance among all employees using our new organizational portal. The integration of the new SOA-based search solution in our portal was simple, time- and cost-efficient.“

Stephan Wolter

CIO, Management Board Projects and IT, IHK Berlin



iFinder **5** elastic combines the fundamental requirements for an intelligent search engine



Users are pleased with

- ✓ an intuitive user interface, speed and intelligent research tools
- ✓ a uniform access to information in many applications and data sources
- ✓ and with finding the most important hit ranked first

IT administrators are pleased with

- ✓ an easy to install and configurable product that offers a very flexible and scalable search solution
- ✓ multi-client capability and many other enterprise-ready features

The Solution for Your Company-Wide Search

We adjust to your demands. You can decide whether to use our search solution for an application or as an enterprise search solution across numerous data sources.

The iFinder is based on Elasticsearch, which is recognized as the best open source search technology. This guarantees security in your investment decision. IntraFind is a strategic partner of Elastic for Enterprise Search and Insight Engines. The iFinder is a ready-made standard product, multi-client capable, provides Secure Search and comes with its own administration application that enables an own roles and rights model.

The high-quality user interface provides maximum ease of use, is intuitive to use and meets the highest requirements. The iFinder is a modular solution with a configuration level that is entirely determined by the requirements of a company and the users. The solution can be used for the simple search of information (e.g. name of a person, document) but can be expanded to a customizable workstation for knowledge workers or an information center.

A wide variety of use cases for your company

✓ Intelligent search engine

Indexing, classifying, search & find – as all-in-one solution, the iFinder is immediately usable.

✓ Data integration and aggregation

Use more than 80 generic and native IntraFind connectors to integrate all relevant internal and external data sources in the comprehensive search and analysis solution. Benefit from the networking of information and aggregate corporate knowledge across data silos.

✓ Easy integration with applications

Integrate our search solution in an existing application (e.g. Confluence, Outlook, SharePoint, WordPress) and benefit from all the functionalities. An extension of the universal search by adding more data sources is possible at any time.

✓ Information center

Benefit from a 360-degree view of your workday. As a point of knowledge, you get all relevant information you need for a job or decision process from all internal and external information sources.

✓ Knowledge management solution

Elaborate research is greatly simplified. You can either search actively or be informed thematically and shape as well as use knowledge with a knowledge-graph-database.

✓ Content analytics platform

Gain comprehensive textual insight into your information inventory – get all documents with linked content from all data sources by the touch of a button and derive important decisions from that. This is under the hood:

- Deep learning/machine learning
- Supervised/unsupervised learning
- Linguistics and morphology
- Named entity recognition
- Semantics
- Natural language processing (NLP)
- Facts extraction
- Topic modelling
- Graph analysis

Always at the Top - the Most Important Hit

IntraFind puts much effort into research and development, so that the most relevant and important results that answer the search query, are displayed at the top. This includes the development of natural language search.

The screenshot shows the IntraFind search results page. On the left, there is a sidebar with filters for Semantic search, Scope, Application, Author, Folder, Languages, Labels, Jira, Product Manager, Sales Manager, Universal Search, and confluence. A 'Dynamic and searchable filters' callout points to this sidebar. Below the filters is a 'Geo search' and 'Timeline' section with a callout 'Geo search and histogram'. The main area displays a 'Hits: 173' list. The top hit is a 'Cognitive Search: The next Generation Enterprise Search' document with a preview and text excerpt. A callout 'Hit list with preview and text excerpt' points to this hit. To the right, a 'Knowledge Graph' for 'IntraFind Software AG' is displayed, showing a network of relationships and a callout 'Knowledge Graph'. Above the screenshot, three callouts point to specific features: 'Semantic Search' (pointing to the filter sidebar), 'New search queries in own tabs' (pointing to the browser tabs), and 'Different display of the hits depending on document type' (pointing to the knowledge graph).

Figure 1 - iFinder hit list with knowledge graph

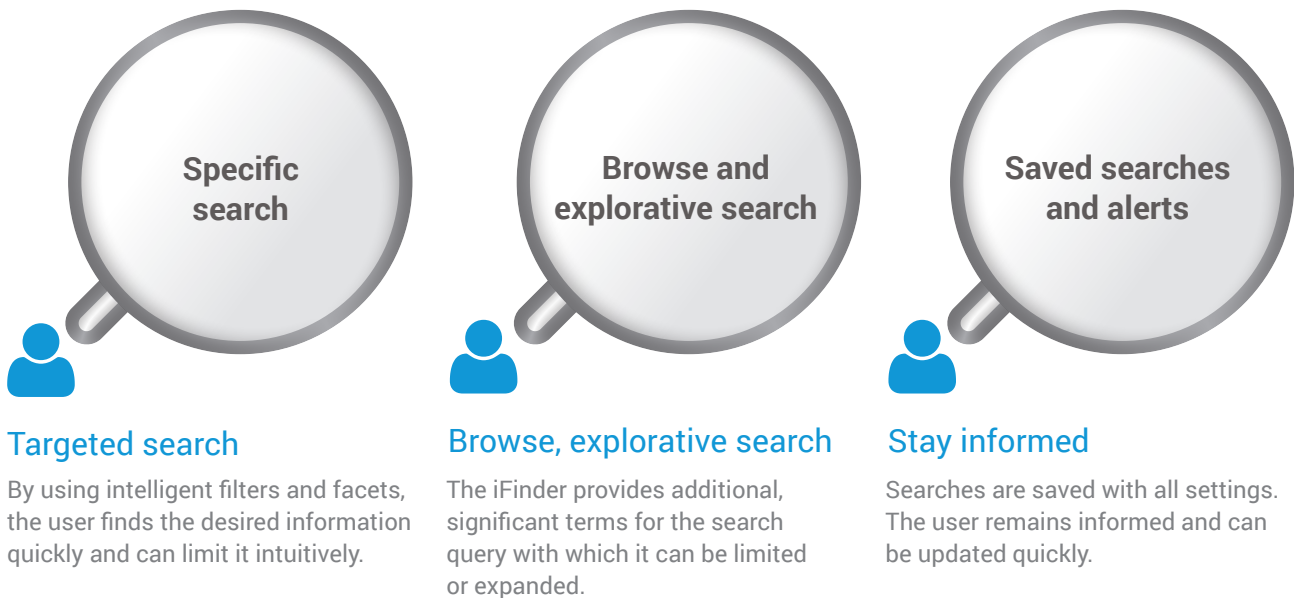
- Searched terms are highlighted in color in the document preview. IntraFind offers a preview of over 600 file formats. In addition, the results include metadata, a text excerpt and thumbnails with preview option.
- PowerPoint documents, e-mails, database entries, wiki entries, people, news - for a clear and individual

display of the hit list the users can use their own templates depending on their preferences. Contents of the hit list are thereby gathered by the user quickly and intuitively.

- Thanks to a convenient template editor, each customer can easily create and modify their own templates.

From the Simple Search to the Information Center

When developing, and lining up new search features, IntraFind always has the user in mind. Essentially, we distinguish three search scenarios:



All search scenarios and procedures benefit from the following functionalities of the user interface:

- ✓ **Intelligent autocomplete**
Exact or fuzzy autocomplete, with multi-word terms, right-checked, typo correction or did-you-mean-suggestions.
- ✓ **Comfortable preview options**
for more than 600 file formats.
- ✓ **Similarity search**
All files with similar content are searched.
- ✓ **Semantic Search**
Automatic expansion of search terms by other relevant terms, based on the current search result.
- ✓ **Storage and favoritism**
of documents classified as important.
- ✓ **Share documents with colleagues or teams**
The iFinder provides all important functionalities for efficient further processing of the hits and for collaboration.
- ✓ **Storage of whole search queries**
The user does not need to memorize complicated queries but can start his research process directly or forward it by e-mail to third parties.
- ✓ **Search within a sentence for excellent relevance**
Hits in which the search terms occur within a sentence or paragraph, are more important and are further up in the hit list as a hit, in which the terms occur in the beginning and at the end of a 30-page document.

From the Simple Search to the Information Center

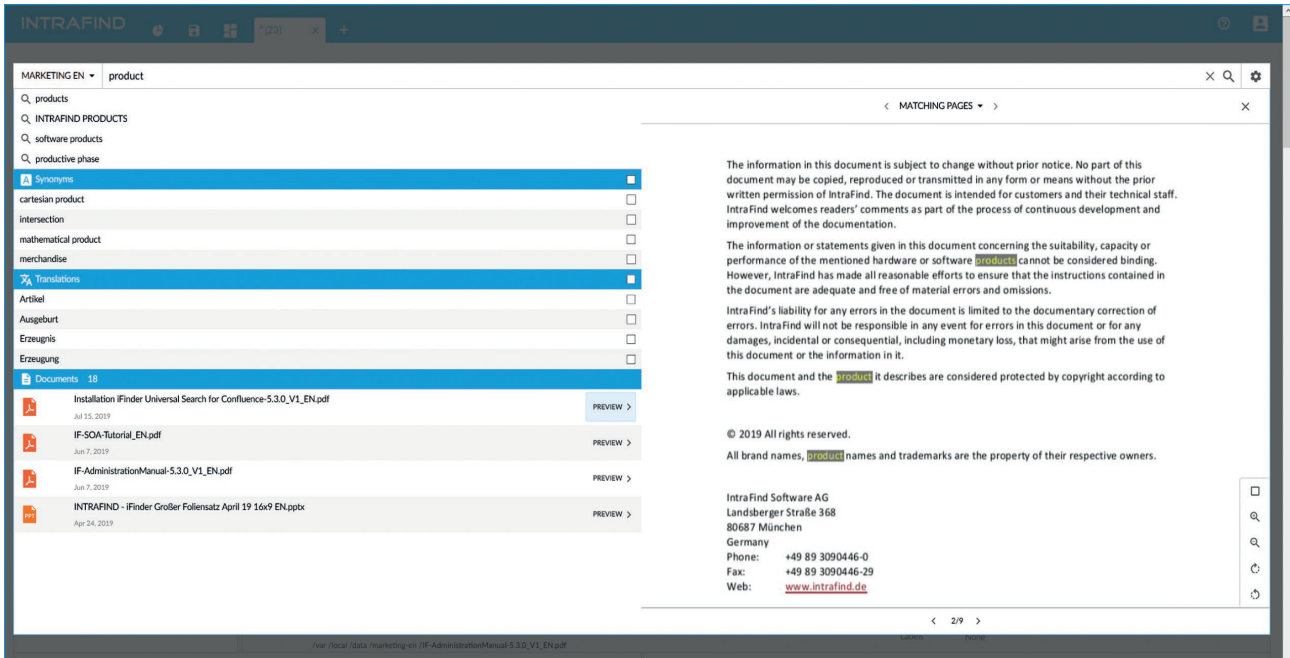


Figure 2 – Comprehensive user support through intelligent autocomplete, synonyms, translations and preview with hit highlighting

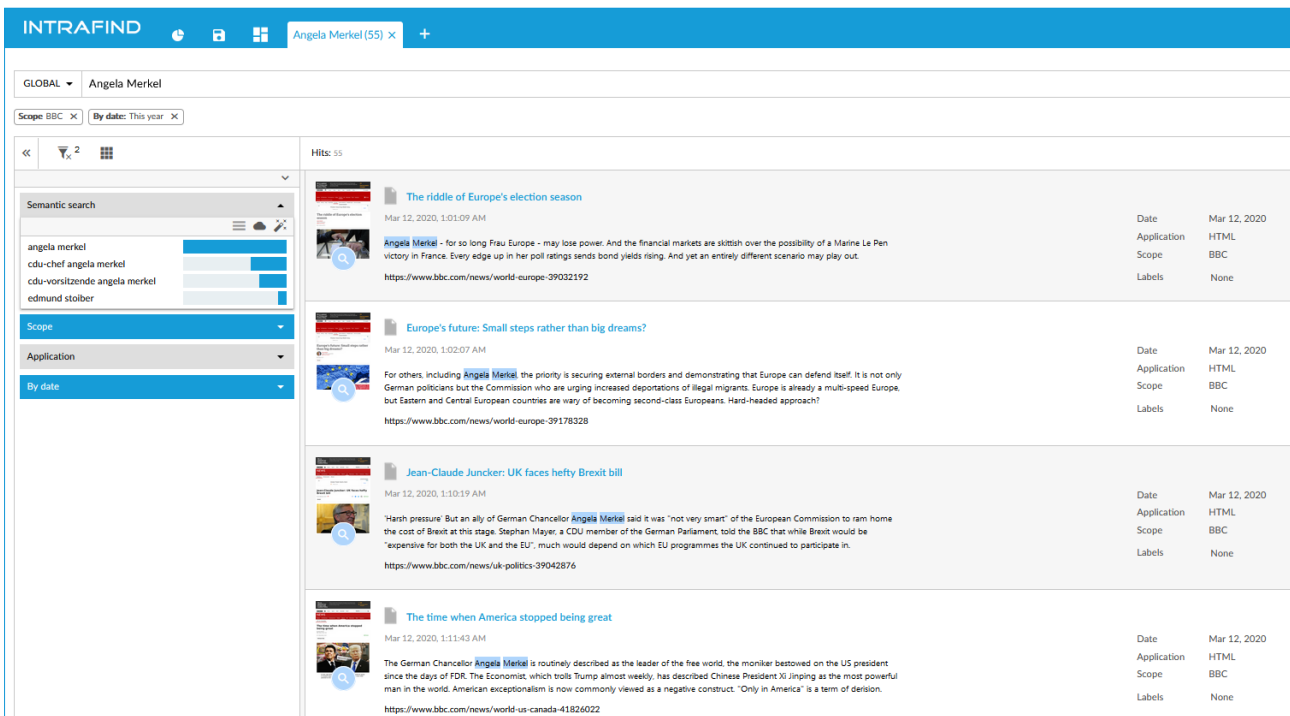


Figure 3 – Semantic search and limitation of the hit list to certain search areas

Knowledge Map – Don't Search, but Find

An additional advantage of the iFinder interface is the Knowledge Map that was developed for searching in large volumes of data and metadata.

Another key advantage of the iFinder interface is the Knowledge Map that was developed for searching in large volumes of data and metadata. The Knowledge Map provides all filters for a metadata-oriented search. The user does not even have to enter a search query.

Every click in metadata important for him reduces the hit list, so that the user quickly and intuitively gets manageable search results. The user defines what metadata should be combined for his research tasks.

Filters for quick and easy navigation and search

Hit list immediately shows results of the current filter

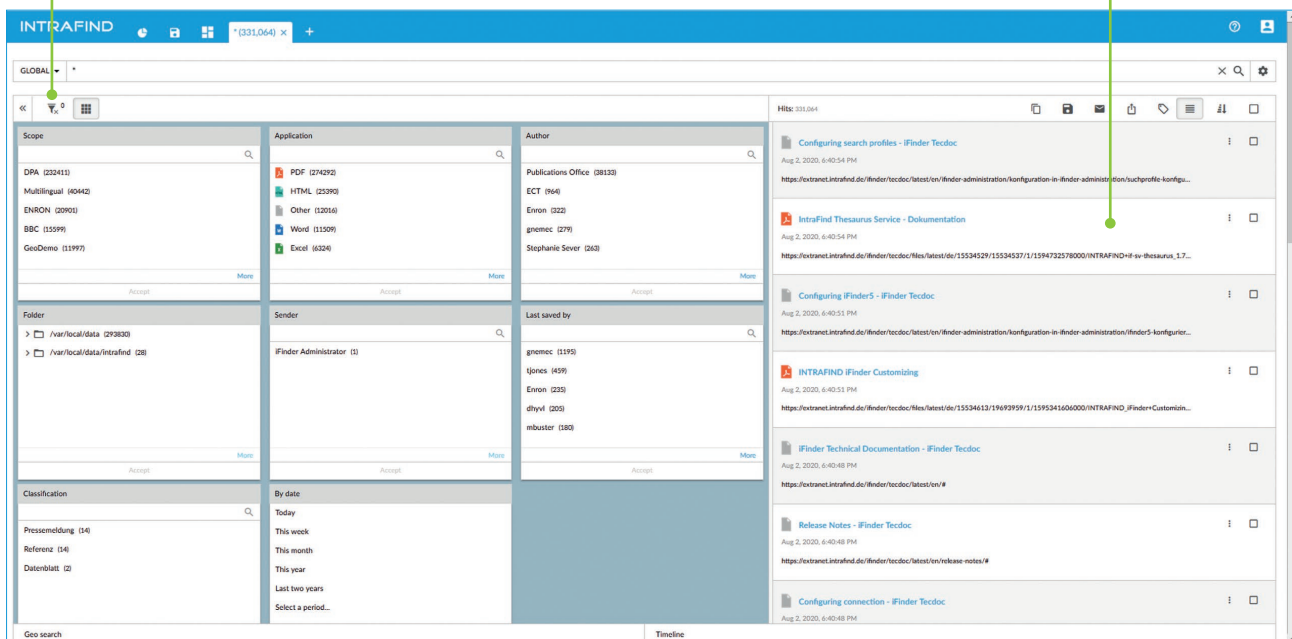


Figure 4 - iFinder Knowledge Map

The Dashboard

An essential component of the iFinder is the dashboard.

The dashboard is - like the entire iFinder - dashlet-based and so provides a quick overview of e.g.: news from a customizable news ticker, a person or expert search, dashlets, mini applications addable and configurable by the user, an

overview of favorite documents or an insight in saved search queries. Every user can select and compile all elements he requires for his information need from the available dashlets.

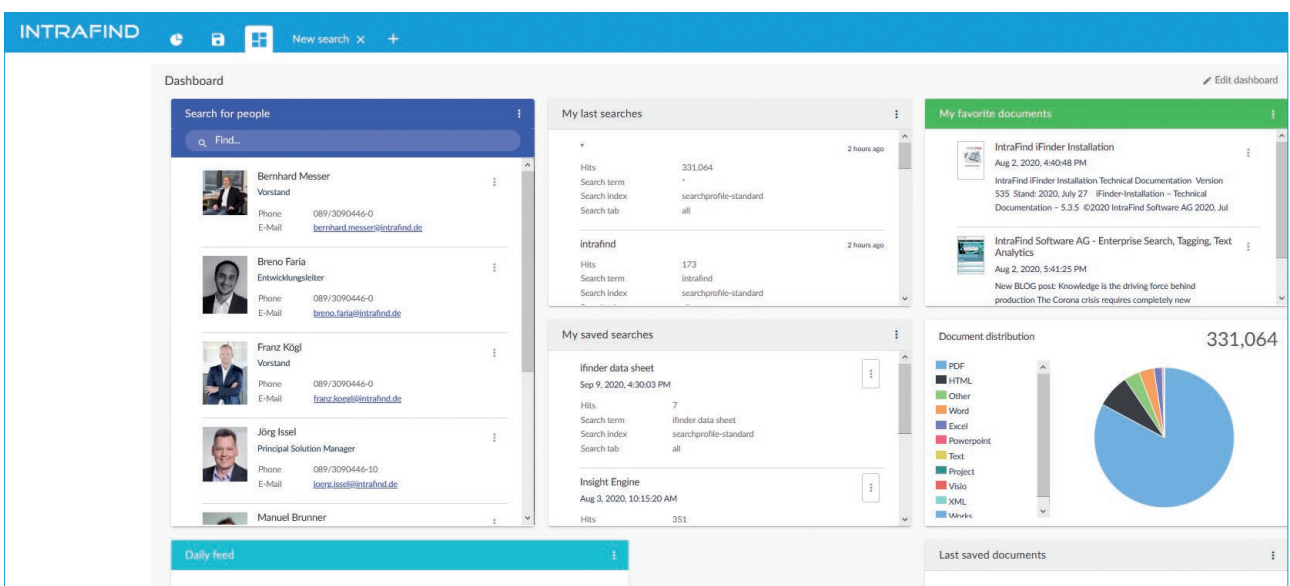


Figure 5 – iFinder dashboard

Advantages for Your Company at a Glance

✓ **User interface**

allows the user an intuitive search, orient himself fast and thus a quick integration of the search in the daily work. In addition, the user interface is responsive.

✓ **Customizable user interface**

with customizable dashlets that increase user satisfaction.

✓ **Tab-based structure**

of the surface across various queries creates an optimum overview of the search history.

✓ **Secure Search**

provides only documents and suggestions for autocomplete for which the user is authorized.

✓ **Rights and role concept**

Make sure that the user only has functions available he is authorized to use.

✓ **Over 600 file formats**

The solution processes simple text files, classic Office-files as well as graphic formats. For these files, full text content and metadata are extracted and thus made searchable. Additionally, scanned documents can be made searchable via OCR as well as audio and video files.

✓ **Preview mode**

for more than 600 file formats without the need to have the corresponding

original application on the user's personal computer. In the preview mode, the user can directly access the locations of the search term marked in color there. This makes working with extensive documents much easier.

✓ **Optimum display of the hit list**

For example, PowerPoint files are not displayed as text in the hit list. Instead, the single slides of the presentation are displayed so the user can click through and recognize them quickly.

✓ **Administration UI with dashboard**

Search engine administrators get an easy-to-use administration application, with which they can configure and manage the iFinder. Search analytics functionalities round off the range.

✓ **Multi-client capability**

Consistent multi-client concept that is integrated in the data model

✓ **Search profiles**

Flexible function for further individualization of the hit list, its contents and of data sources. Individual relevance profiles for each search area or user, individual configuration of the contents.

✓ **Label function**

Assign appropriate labels to the documents. These can be easily found again using the label search filter. Labels can be assigned to single or all documents in a hit list.

Advantages for Your Company at a Glance




✓ Natural Language Processing (NLP) & Artificial Intelligence

- The high-quality full-text search of the iFinder can easily be extended with different Artificial Intelligence methods.
- The main pillars are linguistic and rule-based procedures, machine learning & deep learning, ontologies and graph databases.
- With procedures for a comprehensive understanding of text, we enable the processing of natural-language search queries, which also includes, for example, the implementation of iFinder-based chatbot solutions or voice input.
- The iFinder understands and interprets text and uses it to provide optimal feedback, or to guide the user through the research process.
- An adjustment to customer- or domain-specific features is also possible.

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