Companies receive a variety of documents and information on a daily basis, both electronically and in paper form. Processing them can be time consuming and resource intensive. Automatically and digitally processing incoming information considerably increases efficiency and advances business process optimization. I.R.I.S.’ state-of-the-art technology lightens your workload: IRISXtract™ for Documents means paperless processing! Already far more than a thousand customers trust IRISXtract™ for Documents’ reliability, and all around the world a new system is installed everyday.

IRISXtract™ for Documents is an award-winning Intelligent Document Recognition (IDR) solution platform that automatically classifies documents arriving from various sources and transfers extracted data to business process applications. Relevant information is thus available almost immediately, resulting in reduced operating costs. Automated document management leads to increased reliability and quality, particularly when compared to manual data processing. With IRISXtract™ for Documents, a company’s data is where it needs to be: in process!

"Content to Process": Evaluating data in terms of whether it is relevant to a subsequent process and identifying the respective business process is what our solution platform IRISXtract™ for Documents does. The type of document a company receives through incoming mail (everything from orders, to delivery notes, invoices, and applications) is identified. Once the type of document is identified, so is the corresponding business process, department, and employee. The document is then forwarded accordingly and made available for processing. The information is interpreted and knowledge that is relevant to following business processes thus generated.

Thanks to the automation media discontinuity can be avoided. Incoming information is translated and made available for the corresponding business process. Subsequent information systems are immediately filled with reliable and high quality data.

The technology can be easily integrated into ERP, CRM, ECM, archive, and workflow systems. On the basis of IRISXtract™ for Documents an integral platform concept for automatic invoice and order processing, HR and supplier records as well as case management in legal, healthcare, and finance sectors is thus available.
INNOVATION AND EVOLUTION: THE KEY TO SUCCESS

One of the essential ideas underlying IRISXtract™ for Documents is to always be one step ahead of future changes. The solution platform contains technology that guarantees companies will be able to immediately react and adapt to market developments. The structure and content of documents can change, and so does the kind of information needed for business processes. Therefore, I.R.I.S. does not use a rule-based classification system. The classification engine uses statistical operators based on certain features and characteristic values to analyze documents. The data extraction is based on a free-form, full text approach – templates are not necessary.

100% INTELLECTUAL PROPERTY

All technologies within IRISXtract™ for Documents are 100% the intellectual property of the I.R.I.S. Group. IRISXtract™ for Documents uses the globally known Optical Character Recognition (OCR) engine, ReadIRIS™ that can read more than 137 languages. In addition to its Unicode ability, the OCR/ICR-engine thus entirely fulfils the needs of international companies. Moreover, with the help of I.R.I.S.’ iHQC™ technology, data and high quality (color) images can be exported in various formats.

THE PLATFORM CONCEPT

IRISXtract™ for Documents is a flexible solution platform that can be easily adapted to individual needs. An installation of IRISXtract™ for Documents can be run in two different ways – Multi Application, different solutions simultaneously or Multi Tenancy, one type of solution that is configured differently for various projects or clients.

In order to address the different business processes of companies, I.R.I.S. has developed a variety of solutions. The portfolio focuses on two strategic objectives: Digital Mailroom Solutions (classification, indexing, and sorting) and Business Process Solutions (solutions for a specific business process). Classification, sorting and indexing solutions are available for e.g. HR and customer records, documents in the banking and finance industry as well as a toolkit with which further solutions can be designed. With the solutions for data extraction, invoices, orders or delivery notes can be processed. Another toolkit offers the possibility to design further extraction solutions for forms and other structured documents. The solutions can be configured individually and according to specific needs. The integral platform concept guarantees efficient implementation and reduces project length, risks, and costs.
CORE COMPONENTS OF IRISXtract™ for Documents

IRISXtract™ for Documents is a server-based IDR platform. In IMPORT, documents are input into the system, and in EXPORT, extracted data is transferred to relevant systems. Configurations are done in the COCKPIT or the SOLUTION DESIGNER. The PRODUCTION DATABASE collects data for statistical and documentation purposes (Business Intelligence).

IMPORT

In IMPORT documents to be processed are brought into IRISXtract™ for Documents. The component supports different predefined IMPORT channels and offers the possibility to integrate own channels. The channels can be assigned to different applications with the help of the COCKPIT, and can be configured accordingly. It is possible to assign more than one channel to an application.

ANALYZE

The ANALYZE component classifies and indexes the incoming documents. Before passing on the text, process-relevant information is extracted. The intelligent data analysis is based on rule sets that are defined within the solution. Even the text that is included in images can be identified as such – the text layer that might be included in the electronic document is taken over as a whole. To summarize, the analyzing process is made up of the following steps:

1. Improving the overall image quality
2. Identifying different document classes in the mailroom as well as sorting the documents (XClassify)
3. Optional, pictorial classification based on predefined templates (XFingerprint)
4. Applying generic extraction rules for full-text recognition and interpreting the full-text result, or data extraction of forms on the basis of predefined templates (XContext)
5. Verifying the logical document (scripts, reference data reconciliation, and reference data completion etc.)

ANALYZE TECHNOLOGIES

XClassify is one of the core technologies of IRISXtract™ for Documents and allows configuration of a complex classification scheme with only a few clicks. The statistical and stochastic classification is based on the analysis of sample documents. XContext offers sophisticated, full-text recognition technology that searches the text for key information based on rule sets. XFingerprint metaphorically takes a ‘fingerprint’ of a document by transferring graphical information into a one-dimensional code, so similarities of document layouts can be determined on a mathematical basis.
VERIFY

The VERIFY component depicts the data that was extracted from the processed document. The results and deviations from a particular rule set can be verified and corrected where applicable. In addition to the manual correction, the VERIFY component enables (in different configurations) the automatic verification and validation of extracted data. Regarding the manual verification in the VERIFY module, IRISXtract™ for Documents supports the display of grey level and color images. Moreover, the verification process can be adapted to functional requirements of business processes.

EXPORT

The EXPORT component ensures the delivery of images and index data to business applications as well as the business process and workflow applications that are implemented in those. An individual EXPORT can be assigned to an application when desired. IRISXtract™ for Documents offers technology with which extensive amounts of data and color images can be compressed for archiving purposes.

ADMINISTRATION OF IRISXtract™ for Documents

COCKPIT

The COCKPIT is the central instrument for configuration and production control in IRISXtract™ for Documents. Using this tool, the system is first installed and then operated. It is designed intuitively and gives direct feedback so as to be able to easily react to potential problems. The COCKPIT is efficient and can handle large amounts of data. Thus, fast data processing is guaranteed. In addition, various sorting and filter mechanisms lighten the workload.

IRISXtract™ for Documents is freely scalable. Whether 100 or 10,000 documents need to be processed a day, the solution platform can be configured according to individual needs. Moreover, reference data can be accessed via the COCKPIT. Thanks to automatic reference data reconciliation, an address can be assigned to the corresponding supplier and a quick and accurate classification is guaranteed. For example, 80 million address data can be reconciled in less than one second.
ADD-ONS

The IRISXtract™ for Documents platform can be extended by a number of add-ons. Add-ons are applications that are not an integral part of the platform and can be operated separately.

XScanClient: The XScanClient is a scan tool that allows for automation and is part of the IRISXtract™ for Documents platform. The software supports ISIS and Twain scanner drivers, and scanning of images from disk. With IRISXtract™ for Documents, it is possible to save profile and scanner settings in a central data basis. Thanks to this function, multiple XScanClients can be configured simultaneously from a central location.

XMailFetcher: Standard formats such as JPEG, TIFF or PDF can be processed without a further IMPORT plug-in. To process the wide range of formats that arise in the digital age, including Microsoft formats, I.R.I.S. developed the XMailFetcher. This add-on converts documents into a standard transfer format that facilitates delivery to the IRISXtract™ for Documents system where they are then automatically captured and further processed. The XMailFetcher converts incoming mail, including its attachments, into readable images. A single installation in the mailroom can process up to eight different email addresses at the same time (e.g. accounting@company.com, order@company.com), with a maximum capacity of up to 10,000 pages a day. The XMailFetcher also generates indexing information (From, To, Cc, Subject), to be used for archiving purposes.

SOLUTION DESIGNER

The SOLUTION DESIGNER is the central configuration unit that creates and maintains the IRISXtract™ for Documents applications. The full-text recognition in XClassify and the Solution Package Accounts Payable can be customized in the Solution Designer. With the help of the integrated VSTA Development Suite, .Net and VBS developers can:

- Make adjustments to meet customer specific requirements
- Edit project configurations and apply these to the entire system
- Customize form and free-form solutions for classification, indexing, and verification
PRODUCTION DATABASE

Business process optimization calls for a quality management system that screens and improves the processes in a company. This calls for thorough and systematic data analysis, based on, for example, Business Intelligence concepts. **IRISXtract™ for Documents** contains an efficient statistical tool within its PRODUCTION DATABASE. Based on it, extensive live monitoring, tracking and tracing, and reporting of production processes can be carried out to ensure continuous process improvement.

SYSTEM REQUIREMENTS

**OPERATING SYSTEM AND DATA BASE COMPATIBILITY:**

**IRISXtract™ for Documents** is compatible with different operating systems and data bases. The solution platform can be run on Windows systems – 32-bit and 64-bit versions, and can be used in a virtual environment.

**SERVER**

- Standard-Server HW with Dual-/QuadCore CPU 2.0 GHz or faster
- 4 GB RAM (minimum when using one IRISXtract™ for Documents-component)
- More than 80 GB free hard disk space
- Network adapter with 100 MBit (minimum)
- Standard graphics card (1280 x 1024 pixel) with minimum 512 MB VRAM
- 19” TFT-flat screen
- USB 2.0 interface or alternatively USB-hub in network

**CLIENT**

- Standard HW/PC with Dual-/QuadCore CPU 2.0 GHz or faster
- 4 GB RAM
- More than 60 GB IDE/SATA hard disk storage
- Network adapter with 100 MBit/s
- Standard graphics card (1280 x 1024 pixel) with minimum 512 MB VRAM
- 19” TFT flat screen
ABOUT I.R.I.S.

Image Recognition Integrated Systems (I.R.I.S.) is a leading provider of ‘Content to Process’ technologies. I.R.I.S. offers solutions for automatic invoice and order processing, HR and supplier records as well as case management in legal, healthcare, and finance sectors.

I.R.I.S. provides technologies and solutions that capture data and information contained in documents, which are relevant to business processes. The goal is to make the data easily available while reducing operating costs.

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IRISXtract™ for Documents Contacts:

UFC, Inc.
1104 King’s Highway
Winona Lake, IN 46590
Tel: +1 (248) 447 0102
Fax: +1 (269) 674 3301
sales@ufcinc.com

I.R.I.S. UK
88 Wood Street
10th, 11th & 14th Floors
London EC2V 7RS/Great Britain
Tel: +44 (0) 208 528 1532
Fax: +44 (0) 208 528 1001
info-uk@iriscorporate.com

I.R.I.S. Inc.
955 NW 17th Avenue, Unit A
Delray Beach, FL, 33445/USA
Tel: +1 (561) 404 2690
Fax: +1 (561) 921 0854
info-us@iriscorporate.com

I.R.I.S. France
68 Avenue de la Victoire
94310 Orly/France
Tel: +33 (0) 156 707070
Fax: +33 (0) 156 707077
info-fr@iriscorporate.com

www.irisxtract.net