

Irbis Technologies – Accelerated Data Capture

Data Capture is a data processing term for collecting, formatting, and storing data in computer memory according to defined fields.

Intelligent Character Recognition is an advanced optical character recognition (OCR) or - rather more specific - Handwriting recognition system that allows fonts and different styles of handwriting to be learned by a computer during processing to improve accuracy and recognition levels.

Accelerated Data Capture Workflow

- * Document scanning
- * Document identification
- * Information verification
- * Export into DMS

Document and data capture software products enable organizations to efficiently automate business processes, dramatically minimize manual operations associated with document processing and data capture and increase overall productivity. The products deliver powerful functions to transform information from various types of paper forms or documents into electronic data and transfer it to business applications and databases.

Easy-to-deploy, cost-effective yet powerful solutions, they are designed to meet document processing needs in a variety of industries including government, banking, insurance, education, healthcare, accounting, legal, and many more.

Document scanning

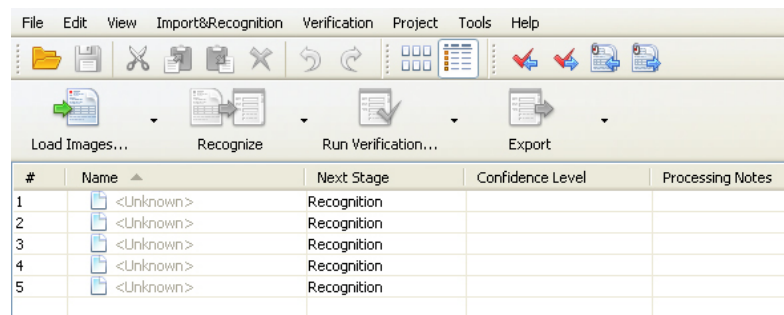
Document scanning or image scanning is the action or process of converting text and graphic paper documents, photographic film, photographic paper or other files to digital images.

This "analog" to "digital" conversion process (A<D) is required for computer users to be able to view electronic files.

Document identification

The electronic documents are imported into document verification workflow. At this point the document types are electronically identified and matched against standard pre-defined templates.

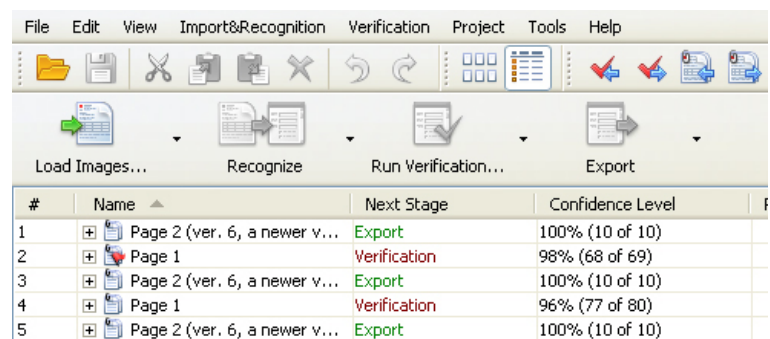
Different document types can be processed within the same batch. The software will automatically detect document type and match types to the template.



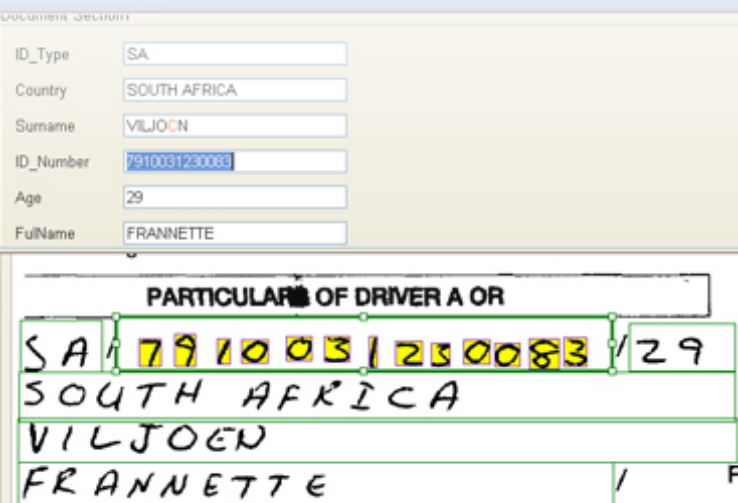
#	Name	Next Stage	Confidence Level	Processing Notes
1	<Unknown>	Recognition		
2	<Unknown>	Recognition		
3	<Unknown>	Recognition		
4	<Unknown>	Recognition		
5	<Unknown>	Recognition		

Information verification

The information is automatically extracted from the pre-defined areas. Some documents are ready for export; some require a level of manual verification. The solution displays confidence levels of recognition and the next logical step – Export / Verify.



#	Name	Next Stage	Confidence Level
1	Page 2 (ver. 6, a newer v...	Export	100% (10 of 10)
2	Page 1	Verification	98% (68 of 69)
3	Page 2 (ver. 6, a newer v...	Export	100% (10 of 10)
4	Page 1	Verification	96% (77 of 80)
5	Page 2 (ver. 6, a newer v...	Export	100% (10 of 10)



DOCUMENT VERIFICATION

ID_Type: SA
Country: SOUTH AFRICA
Surname: VILJOEN
ID_Number: 7910031230083
Age: 29
FullName: FRANNETTE

PARTICULARS OF DRIVER A OR

SA 7910031230083 / 29
SOUTH AFRICA
VILJOEN
FRANNETTE

Why type if the computer can read?

Irbis Technologies – Accelerated Data Capture

Accelerated Data Capture Workflow

- * Optical Character Recognition
- * Intelligent Character Recognition
- * Barcode Recognition
- * Data rule-based validation

With its powerful algorithm for intelligent document classification and selective processing approach, the solution serves as a single entry point for all kind of paper documents including:

forms (questionnaires, tests, insurance forms, tax returns, etc.),

semi-structured documents (invoices, purchase orders, waybills, etc.)

unstructured documents (letters, contracts, articles, etc.).

Export documents into searchable PDF files for full text Search in DMS or Workflow.

Information verification

Consider manual capturing of this block of data below. Using the manual capture procedure, the end-user would have to manually locate the region of the document where the information is present, eg ID Number, Type, etc. The information would have to be manually typed into capturing application.

Accelerated data capture solution simplifies this process and provides a facility where the user has to capture only these letters, which were not 100% identified by the software.

Document 2 (Page 1)

Document Section

ID_Type	SA
Country	SOUTH AFRICA
Surname	VILJOEN
ID_Number	7910031230083
Age	29
FulName	FRANNETTE

PARTICULARS OF DRIVER A OR

SA / 791003 | 230083 / 29
SOUTH AFRICA
VILJOEN
FRANNETTE

In this example above, instead of typing 45 characters, only 1 letter has to be corrected!

The application also displays unrecognised letters in different colour for ease of identification. It also matches electronic letter to a position on the actual document.

User typing errors are trapped and validation can be executed.

FulName FRANNETTE

Accident Date 11

1 format error(s)
The field value is neither a date nor time.

Export

The export is a click away. The information is exported into DMS or Workflow solution for further processing, analysis, distribution and management.

There are various adapters available and the facility to create custom formats via standard Java Scripts.

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Accelerated Data Capture Workflow

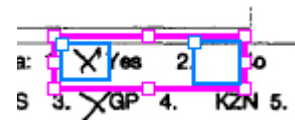
- * Rapid implementation
- * Multi-user distribution
- * Data validation
- * LOB Integration
- * Quick return on investment
- * High-quality export data
- * Automation
- * Customization facilities

Solution configuration and management

The solution is simple to configure and designed for rapid implementation within the organization.

It includes comprehensive form designers, testing tools and integration points into LOB systems.

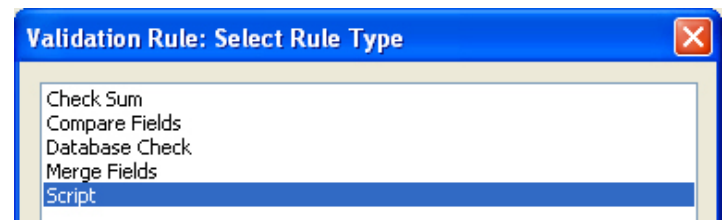
All possible types of data are catered for when defining form data areas. Hand-written text, machine print and selection areas are configurable variables defined at the configuration time.



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SA	63021 65079082 146
SOUTH AFRICAN	
DOSTHUIZEN	
WYNANT JOHANNES I	

Validation

The solution provides API facility to validate data against LOB at time of capture.



Flexi-capture

The solution provides a facility to capture information from the semi-structured forms. For example, Invoices received from different vendors are printed in different formats.

The package has intelligent search facility for pre-defined keys, like "Invoice Number", "Invoice Nr", "Invoice No", and, based on the position of the key, extract relevant information. This facility allows processing of different types of documents in a batch format and simplifies pre-scanning manual sorting.

DMS Integration

The solution is integrated with the leading Document Management Solution developed in South Africa – Sbimage.

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