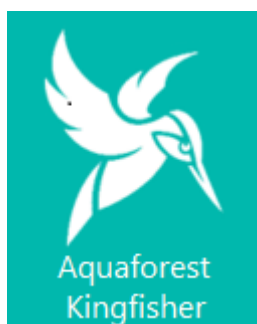

Kingfisher Reference Guide



Version 2.0
January 2018

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1 INTRODUCTION

Kingfisher provides a set of operations for processing PDF files, this includes splitting, extracting pages, extracting text and renaming of the files. Kingfisher also provides the ability to set the security, metadata and other attributes of a PDF document.

What makes kingfisher stand out is the ability to perform split, extract and rename operations based on text or barcode found in zones or coordinates in a PDF page. Our OCR engine ensures that this text regions are extracted as strings even though the PDF is an image only file, this also makes kingfisher have an edge over similar tools.

1.1 Installation

The installation MSI will guide you through the process of setting up Kingfisher.

1.2 System Requirements

- Server 2008, Server 2012, Server 2016,
- Windows 7 (64 bit), Windows 8 (64 bit), Windows 8.1 (64 bit), Windows 10 (64 bit).
- Microsoft .net framework 4.6.1
- 250Mb of disk space is required.

1.3 Licencing and Purchasing

Unlicensed versions are fully functional, but all generated PDF files will have the Aquaforest trial stamps on them.

When a license is purchased (see http://www.aquaforest.com/en/tif_pdf_buy.asp#collapseEleven) a permanent license key will be issued for use with the product which should be entered using the Options tab of the GUI. There is no need to download another version of the software.

1.4 Version Breakdown

	Standard	Professional	Server
	<i>Smart PDF Splitting and Renaming.</i>	<i>Smart PDF Data Extraction, Splitting and Renaming.</i>	<i>Automated Smart PDF Data Extraction, Splitting and Renaming.</i>
Split PDF by Content, Barcode or Page Ranges	☑	☑	☑
Rename PDF by Content or Barcode	☑	☑	☑
Extract PDF Pages by Content or Barcode	☑	☑	☑
Includes Optical Recognition for processing Image PDF files	☑	☑	☑
Graphical User Interface	☑	☑	☑
Extract PDF Text and Data to CSV, Excel or Text File.		☑	☑
Command Line Interface			☑
Automated Scheduling			☑
Number of Cores Supported	1	1	4















2 KINGFISHER WINDOWS INTERFACE

When Kingfisher is launched, the main window is displayed as shown below. This allows the definition, saving and running of jobs.

[Dashboard](#) [Job Settings](#) [Options](#) [Help & Support](#)

Service Status : Running

 Add New Job

OPERATION	JOB ID	JOB NAME	SCHEDULE	LAST RUN	RUN STATUS	
 Rename based on Text Match	10000	Job 10000	Manual	07 Dec 2017 15:31	Finished	  
 Advanced Export to CSV/XLSX	10001	Job 10001	Manual	07 Dec 2017 16:33	Finished	  
 Extract Pages Based on Text Match	10002	Job 10002	Manual		Not Yet Run	  
 Rename based on Text Match	10003	Job 10003	Manual		Not Yet Run	  
 Rename on Text Match & Barcode	10004	Job 10004	Run Once	07 Dec 2017 16:55	Finished	  
 Split File based on Barcode	10005	Job 10005	Run Once	07 Dec 2017 16:46	Finished	  

This section will explain all the components of the Kingfisher Graphical User Interface

2.1 Dashboard

The kingfisher Dashboard contains a list of all the jobs defined in kingfisher, you can start/stop jobs by clicking the “Play” and “stop” button by the side of the job name, right clicking on a Job also gives some options as shown on the image above.

Screen Field / Button	Description
Add New Job	This button launches a wizard to create a new kingfisher job.
Stop Job	Stops an already running job.
Run Job	It is represented by the play button, clicking on it runs the job associated with the button.
Edit Job	This can be accessed by either right clicking the job or clicking the button with the pen icon, use this option to Edit a job, or just double click on the job.
Copy Job	Use the copy job in the context menu to make a duplicate of the currently selected job.
Delete Job	Use the delete job in the context menu to delete the currently selected job.
Clear Error	Use this option to clear errors of jobs in error before running them.

2.2 Job Settings

Enter the Name of the Job and Select Operation

Job ID

Job Name

Select Operation

Files With No Match

Location Details

☒ Single File ☐ Folder ☐ Tree

Source

Destination ☐ Same as Source

Log File

Job Options

Case Sensitive ☐ Off ☒ On

Debug ☒ On ☐ Off

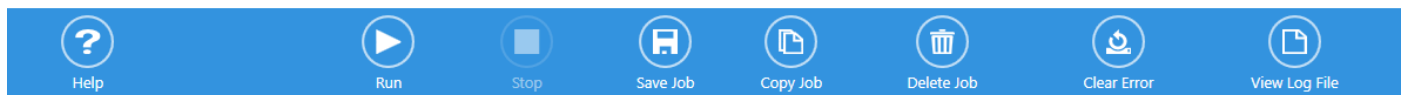
Continue on Error ☐ Off ☒ On

Create Folders ☒ On ☐ Off

OCR ☐ Off ☒ On

Overwrite Existing Files ☐ Off ☒ On

Max Cores



Screen Field / Button	Description
View Log File	Clicking this button will display the last generated log file of the selected rule.
Save	Clicking this button will save all the changes in the rule.
Run	Clicking this button will execute the rule on the selected files.
Stop	Clicking this button will halt the processing of the current batch of files at the earliest convenience.
Delete Job	Clicking this button will delete the currently selected job.
Copy Job	Clicking this button will to make a duplicate of the currently selected job.
Clear Error	Use this option to clear errors of jobs in error before running them.
Explore Destination	Clicking this button will open the target folder in windows explorer, if the folder does not exist, it will display an error message.

2.2.1 Job Definition

Job definition contains the common job properties that need to be set for the job to be executed.

Screen Field / Button	Description
Job Name	This is used to identify a job by the user, a default name will be generated when you create a new job, it is always a good practice to give the jobs sensible names when you create them.
Select Operation	Use this combe box to set the operation you want to carry out, there are nine options to choose form. Check section 4 for more details. <ul style="list-style-type: none">• Rename PDF File• Split PDF Files• Extract Pages from PDF Files• Extract Content from PDF Files
Source Type	File Folder Tree
Create Folders	If this is checked, Kingfisher will create the target directories if they do not exist.
Overwrite Existing Files	If checked, generated PDF files will overwrite existing files of the same name (but not source files).
Continue on Error	When checked, folder and tree processing jobs will continue when individual files fail.
Debug	If switched on the job log will be more detailed
Max Cores	Sets the number files that should be processed in parallel.
Case Sensitive	Setting this to true will make sure all the searches, text operations and pattern matching will be performed in a case sensitive fashion.
OCR	If switched, Kingfisher will use OCR to locate the text on the PDF document, this is good for image PDFs and PDF file with Encoding.
Source	The source PDF file or directory.
Destination	The location where the generated PDF file(s) will be placed. This can be set to be the same as the source location. Note that Kingfisher cannot overwrite source files, a new file is always made.
Log File	The path to the log file for the current rule, you can use the %TIMESTAMP% and %DATESTAMP% variables to create log files based on dates or time.

2.2.2 Select Variables

One of the most attractive features of kingfisher is the ability to select text or barcode at a position in a PDF page, the selected text or barcode can be used to:

- Decide whether to split the document at the page where the text of barcode was found.
- Decide whether to extract the page where the text of barcode was found.
- Use these extracted text or barcode values to rename the file

The “Select Variable” tab is used to select four variables named:

- “%VALUE1%”: This is used to decide the split or extract page, it is also used to generate the output file name, note this must be selected for some jobs to run.
- “%VALUE2%”: This is used to generate the output file name.
- “%VALUE3%”: This is used to generate the output file name.
- “%VALUE4%”: This is used to generate the output file name.

To assign a zone to a variable, you should first choose the zone on the PDF page with your mouse, click the camera icon associated to the variable you want to assign the zone to. If you do not assign a zone to the variable, kingfisher will assume you want to use the whole page as a zone. You will notice the “Selected Zone” Text Box change from “all” to the coordinates you selected.

Dashboard [Job Settings](#) [Options](#) [Help & Support](#)

Service Status : Running

[Job Definition](#) [Select Variables](#) [Scheduler](#) [Alerts](#) [File Naming](#) [Advanced Settings](#) [Running Job](#)

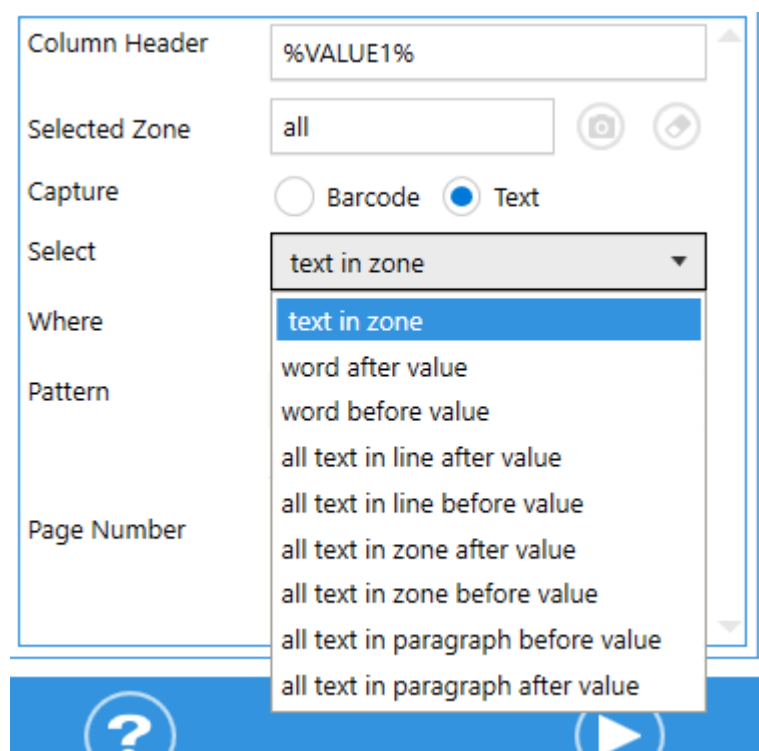
The screenshot shows the 'Select Variables' interface. On the left, the 'Kingfisher Variables' list contains '%VALUE1%'. Below it, the 'Column Settings' section has a 'Selected Zone' dropdown set to 'all'. The main area displays a PDF page of a patent document. A 'Magnify' tool is active, showing a zoomed-in view of the patent text. The patent title is 'United States Patent Gutterman'. The patent number is 'US 6,409,467 B1'. The date of patent is 'Jun. 25, 2002'. The patent abstract describes a 'WIND-GENERATED POWER SYSTEM'.

Screen Field / Button	Description
Magnifier	Slide this to the left and right to zoom in or zoom out
Next	Click to go to the next page of the PDF file
Back	Click to go to the previous page of the PDF file
Delete Item	Click this button to delete the variable or item.
Move Up/Down	You can use this to rearrange the order of the variables.
Selected Zone	Click the camera icon to assign a selected zone to a variable
Clear Zone	Click this button set the selected zone to the whole page
Text	Check this radio button to extract text values
Barcode	Check this radio button to extract barcode values

Select	Use this drop-down box to specify the text you want to extract relative to a word/value. See section 2.2.2.1 for more details.
Where	Use this Drop-down box to specify if a regular expression should be used to match the selected text. See section 2.2.2.3 for more details.
Refine Extracted Text	Click this link to refine the text extracted. See section 2.2.2.4 for more details
Page Number	You can specify specific pages to want Kingfisher to check for certain values.
All Pages	Click this button to make Kingfisher search for the values on all pages.

2.2.2.1 Text Match Option

When extracting text, Kingfisher give you the ability to select text that is relative to a word/value. The table below gives to the various options available and what they mean.



Screen Field / Button	Description
Select	<ul style="list-style-type: none"> • text in zone: This option will select all the text that was extracted. • word after value: If this option is selected, kingfisher will return the word that appears immediately after the word supplied in the text box. • Word Before value: If this option is selected, kingfisher will return the word that appears immediately before the word supplied in the text box. • all text In Line after value: If this option is selected, kingfisher will return all the words that appear on the same line after the word supplied in the text box. • all text In Line before value: If this option is selected, kingfisher will return all the words that appear on the same line before the word supplied in the text box. • all text In Zone after value: If this option is selected,

	<p>kingfisher will return all the words that appear in the selected zone after the word supplied in the text box.</p> <ul style="list-style-type: none"> • all text In Zone before value: If this option is selected, kingfisher will return all the words that appear in the selected zone before the word supplied in the text box. • all text in paragraph before value: If this option is selected, kingfisher will return all the words that appear in the paragraph before the word supplied in the text box. • all text in paragraph after value: If this option is selected, kingfisher will return all the words that appear in the paragraph after the word supplied in the text box.
Pattern	<ul style="list-style-type: none"> • Where text matches any pattern: This option will not match the text to any pattern • Where text matches pattern: Provide a Regular expression here to match the extracted text to, this will be explained more below.

2.2.2.2 Barcode

When extracting Barcode, you can choose the barcode format you are interested in.

Screen Field / Button	Description
Barcode Type	<p>This combo box allows the user to select the barcode the they want to extract, below is the list of barcode types that kingfisher can recognize</p> <ul style="list-style-type: none"> • Aztec 2D barcode format. • CODABAR 1D format. • Code 39 1D format. • Code 93 1D format. • Code 128 1D format. • Data Matrix 2D barcode format. • EAN-8 1D format. • EAN-13 1D format. • ITF (Interleaved Two of Five) 1D format (Code 25). • MaxiCode 2D barcode format. • PDF417 format. • QR Code 2D barcode format. • RSS 14 • RSS EXPANDED • UPC-A 1D format. • UPC-E 1D format. • MSI • Plessey

2.2.2.3 Text Pattern Option

Kingfisher allows the user to define the type of text that is extracted from the PDF document. This is to prevent unwanted text to be extracted just because it happens to be in the same location as the text the user is interested in. For example, a user might want a phone number, but a postcode gets extracted just because it was present in the same location as the postcode on a different page. Kingfisher provide pattern matching so that a user can make sure the text that is extracted is properly validated before it is accepted.

Patterns are used to match parts of the document. Some useful examples are below. For a complete reference on patterns including advanced examples see section *17 of the reference guide.

Pattern	Matches	Examples
<i>invoice</i>	The word "invoice"	
<i>invoice no:</i>	The phrase "invoice no:"	
.	Any 1 character	A 9 %
....	Any 4 characters	12ab \$5.00
<i>Invoice....</i>	The word invoice followed by any 4 characters. A space is a character.	Invoice 123 Invoice No: Invoice A9-
<i>^invoice</i>	The word invoice at the start of a line	
<i>invoice\$</i>	The word invoice at the end of a line	
<i>[0-9] [0-9] [0-9]</i>	Any 3 digits	123 900
<i>[a-z] [a-z] [a-z]</i>	Any 3 alphabetic characters	abc Inv

2.2.2.4 Refine Extracted Text

Regular expressions can be a bit advanced for the regular IT administrator, as a result we have added a simpler way to refine text in the new version of kingfisher. This simply entails removing/replacing certain text patterns or values.

ADVANCED TEXT PROCESSING

Replace text from extracted text in zone.

+

Add Item

Task	Pattern	Value to replace with	Inclusive/Exclusive	Case Sensitive	
Remove everything before the last occurrence of text matching	<input type="text" value="V"/>		Exclusive	<input checked="" type="checkbox"/> No	<input type="button" value="X"/>
Replace the word after the last occurrence of text matching	<input type="text" value="V"/>	<input type="text" value="New"/>	Exclusive	<input checked="" type="checkbox"/> No	<input type="button" value="X"/>

Save Job

Discard Changes

Option	Explanation
Task	The first part of the task is whether to remove or replace the pattern provided, the next part deals with the position and the frequency of the removal or replacement.
Pattern	The pattern to search for, this can be a regular expression.
Values to replace with	If you choose to replace a pattern, you will have to provide a substitute value in this text box.
Inclusive/Exclusive	When you chose Inclusive, kingfisher will remove all the text specified including the pattern being matched. When you choose Exclusive, kingfisher will remove all the text specified without the pattern being matched.
Case Sensitive	This option tells kingfisher whether to use a case sensitive approach or not.

2.2.3 Scheduler

This tab allows to set how job are ran in kingfisher

[Job Definition](#) [Select Variables](#) **[Scheduler](#)** [Alerts](#) [File Naming](#) [Advanced Settings](#) [Running Job](#)

☒ Manual

☐ Once per day

At :

2:18:13 PM



☐ Continuous

Every:

10



Minutes



Between

12:00:01 AM



And

11:59:00 PM



☐ Run once

On :

12/7/2017



At :

2:18:13 PM



Setting	Description
Manual	This means that the document library has to be run manually by clicking on the “Run” button on the dashboard.
Once per day	This allows the document library to be scheduled to run at a specified time each day.
Continuous	This allows the document library to be scheduled to run periodically between a start time and end time each day. The periods may be minutes, hours, days or months. For example, a document library may be specified to run every 1 hour between 9:00 and 17:00.
Run Once	This allows the document library to be scheduled to run only once at a specified time.

2.2.4 Alerts

Use this tab to set email alerts for jobs.

[Job Definition](#) [Select Variables](#) [Scheduler](#) **[Alerts](#)** [File Naming](#) [Advanced Settings](#) [Running Job](#)

Email Settings


From Email Address:

To Email Address:

Email Subject:

%JOBNAME% %STATUS%

Email Message:

Test Email 

Processing of Job: '%JOBNAME%' completed with status: '%STATUS%' .
Log file: %LOGFILE%

Send Error Alert

☐ Off

Send Success Alert

☐ Off

Setting	Description
From Email Address	The email address to send the email from.
To Email Address	The email address to send the email to.
Email Subject	The email subject. You can use the following templates: %JOBNAME% - will be replaced by the name of the library %STATUS% - will be replaced by "success" or "error" depending on whether the job ran successfully or not
Email Message	The email message to send. You can use the following templates: %JOBNAME% - will be replaced by the name of the library %STATUS% - will be replaced by "success" or "error" depending on whether the job ran successfully or not %LOGFILE% - will be replaced by the path of the log file.
Send Error Alert	Switch this on to send an alert when a job ends in an error.
Send Success Alert	Switch this on to send alerts when the job successfully completes.

2.2.5 File Naming

Renaming output file is one of the most attractive and robust features of Kingfisher. Kingfisher offers various variables that allows the user to customize the final output name. These variables range from Text/Barcode values extracted from the PDF document to other predefined variables. Kingfisher also gives the user the ability to write scripts to generate the file name.

In kingfisher, output file names can be generated in two ways:

2.2.5.1 Name Template

You can enter a string in the name template text box, any occurrence of variables in the table below will be replaced by the appropriate value at runtime.

%VALUE1%	The primary barcode/text value
%VALUE2%	The barcode/text value(s) found.
%VALUE3%	
%VALUE4%	
%INDEX%	The current index of the
%PAGENUMBER%	the current split index for the current value (used with extract)
%FILENAME%	the original file name without the .pdf extension
%PAGESTART%	Start page number
%PAGEEND%	End page number
%BOOKMARK%	This represents the bookmark name and can be used with the “Split by Top Level Bookmarks” split option only
%TIME%	The current Time
%DATE%	The current Date
%RUNDATE%	The Time at which the job was executed, the difference between this and the %TIME% variable is that this value will be same for all files processed in a single job run.
%JOBNAME%	The Name of the Job

Job Definition [Select Variables](#) [File Naming](#) [PDF Setting](#)

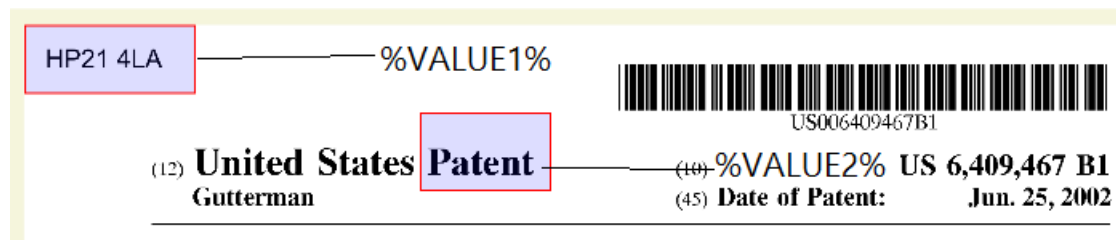
☒ Use Name Template ☐ Use Scripts For Output Names

Name Template

%VALUE1%_%VALUE2%

Variable	Description
%VALUE1%	
%VALUE2%	
%FILENAME%	Replaced By the Name of the Original File
%DATE%	Replaced By The Current Date
%TIME%	Replaced By The Current Time
%PAGENUMBER%	Replaced By The Page Number Where the Text/Barcode Was Found
%PAGESTART%	Replaced By The Start Page Number of a Split PDF
%PAGEEND%	Replaced By The End Page Number of a Split PDF
%INDEX%	Replaced By The Split or Extract Index of a file.
%BOOKMARK%	Replaced by the Bookmark title, Use this with split by bookmark.

Using the image below as an example, if the document below is to be renamed,
Using “%VALUE1%\\Technical%VALUE2%” as the File Template will create a file named “TechnicalPatent” in a folder
named “HP21 4LA”.



2.2.6 Advanced Settings

This tab contains some advanced settings that would allow define the output PDF and provide some OCR settings.

2.2.6.1 Security Settings

[Job Definition](#) [Select Variables](#) [Scheduler](#) [Alerts](#) [File Naming](#) [Advanced Settings](#) [Running Job](#)

[Security](#) [Properties](#) [OCR Settings](#) [Text Matching](#) [Other Settings](#)

Document Security

Set Security

☐ Off

Source Password

Target User Password

Target Owner Password

Target Document Permissions

Retain Permissions

☒ On

Assembly

☐ Off

Degraded Printing

☐ Off

Modify Annotations

☐ Off

Copy

☐ Off

Allow All Permissions

☐ Off

Form Filling

☐ Off

Screen Readers

☐ Off

Modify Contents

☐ Off

Printing

☐ Off

2.2.6.1.1 Source Document Security

Screen Field / Button	Description
Source Password	If the source document requires a password it should be entered here.

2.2.6.1.2 Target Document Security

Option	Description	
User Password	A password that will be required to open the document.	
Owner Password	A password that will be required to change the document permissions.	
Permissions		
	Permission	Description
	Allow ALL Permissions	All the permissions below.
	Printing	Allow high-quality printing
	Modify Contents	Allow assembly (see below) and other document medications
	Copy	Allow text and graphic copying and extraction
	Modify Annotations	Allow modification of annotations
	Form Filling	Allow filling of form fields
	Screen Readers	Allow extraction of text and graphics in support of accessibility.
	Assembly	Allow rotation, insertion or deletion of pages.
	Degraded Printing	Allow low-quality printing

2.2.6.2 Properties

[Job Definition](#) [Select Variables](#) [File Naming](#) [Advanced Settings](#) [Running Job](#)

[Security](#) [Properties](#) [OCR Settings](#) [Other Settings](#)

Document Metadata

Author	Title	Creator
<input type="text"/>	<input type="text"/>	<input type="text"/>
Subject	Keywords	Retain Metadata
<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Off

Display Mode

Page Layout	Page Mode	Non Full screen Mode
<input type="text" value="Default"/>	<input type="text" value="Default"/>	<input type="text" value="Default"/>

PDF Settings

Hide Menu Bar	Hide Tool Bar	Center Window	Fit Window	Hide WindowUI
<input type="checkbox"/> Off	<input type="checkbox"/> Off	<input type="checkbox"/> Off	<input type="checkbox"/> Off	<input type="checkbox"/> Off

This page allows setting of the generated PDF Document Properties. Custom and XMP metadata may also be set – see section 7 for further details.

The **Document Metadata** Section allows the user to change the metadata to the target PDF file.

2.2.6.2.1 Display Modes

Option	Description
Page Layout	The setting for initial document page display. One of: <ul style="list-style-type: none">• Single Page• Continuous• Continuous Facing (odd pages left)• Continuous Facing (odd pages right)
Page Mode	The setting for initial viewer mode. One of: <ul style="list-style-type: none">• Neither Bookmarks nor Thumbnails Open• Bookmarks Open• Thumbnails Open• Bookmarks & Thumbnails Open• Full Screen
Non-Full Screen Mode	Only applicable where Page Mode=Full Screen. The setting for document page display when exiting Full Screen mode. One of: <ul style="list-style-type: none">• Neither Bookmarks nor Thumbnails Open• Bookmarks Open• Thumbnails Open

2.2.6.2.2 Settings

Option	Description
Hide Tool Bar	The viewer's tool bar will be hidden
Hide Menu Bar	The viewer's menu bar will be hidden
Hide Window UI	The viewer's UI elements (scrollbars etc.) will be hidden
Fit Window	The viewer will resize the document's window to fit the size of the first displayed page.
Centre Window	The document window will be positioned in the centre of the screen.

2.2.6.3 OCR

[Job Definition](#) [Select Variables](#) [Scheduler](#) [Alerts](#) [File Naming](#) [Advanced Settings](#) [Running Job](#)
[Security](#) [Properties](#) [OCR Settings](#) [Text Matching](#) [Other Settings](#)

Image Pre-Processing

OCR Language

English ▼

Despeckle

No Despeckle ▼

Convert To TIFF DPI

Default ▼

Deskew

☒ On

Extract Images Via

Native ▼

OCR Pages with Image

☐ Off

Remove Lines

☒ On

Binarize

☐ Off

Auto-Rotate

☐ Off

Option	Description
Convert To TIFF	Set to yes if you us to convert the input PDF to a TIFF file before performing OCR when extracting text from the PDF.
OCR Pages with Image	If this is set to true, kingfisher will OCR all pages with images in them by default, select this if you have partially searchable documents
Despeckle	Despeckle the image – The method removes all disconnected elements within the image that have height or width in pixels less than the specified figure. The maximum value is 9 and the default value is 0
Auto Rotate	Auto rotates images to an orientation where more text can be recognized.
Remove Lines	Remove lines from images.
Binarize	Use This option to process coloured files.
Deskew	Deskew (straighten) the image.

2.2.6.4 Text Matching

Switch this on to remove all white spaces after extracting text.

[Job Definition](#) [Select Variables](#) [Scheduler](#) [Alerts](#) [File Naming](#) [Advanced Settings](#) [Running Job](#)
[Security](#) [Properties](#) [OCR Settings](#) [Text Matching](#) [Other Settings](#)

Remove white spaces before matching text

☐ Off

2.2.6.5 Other Settings

[Job Definition](#) [Select Variables](#) [Scheduler](#) [Alerts](#) [File Naming](#) [Advanced Settings](#) [Running Job](#)
[Security](#) [Properties](#) [OCR Settings](#) [Text Matching](#) [Other Settings](#)

Custom Script File

Execute the script below after each file

☐ Off

Custom Script File

Output PDF

Retain Bookmarks

☐ Off

Output PDF Page Rotation

Trigger File

Use Trigger File

☐ Off

Delete Trigger File After Job

☐ Off

Select Trigger File

Temporary Folder

Csv Log File

Option	Description
Custom Script File	
Execute the script below after each file	Switch this on if you want to execute a .wsf file after each output file is produced. We send the following arguments: "newfilename" and "oldfilename".
Custom Script File	The location of the script file.
Trigger File	
Use Trigger File	When this option is switched on, a kingfisher job will not start if a trigger file specified is not available.
Delete Trigger File After Job	King fisher will delete the trigger file after the job completes if this option is turned on.
Select Trigger File	Use this control to provide the trigger file name and location.
Output PDF	
Output PDF Page Rotation	Choose the rotation of the output PDF pages.
Retain Bookmarks	Set to true to retain the bookmarks in the output PDF file.
Temporary Folder	You can change the temp folder using this directory browser control.
Csv Log File	The csv log files contain a summary of the new file names generated by kingfisher.

2.2.7 Running Job

This tab has two elements explained below:

- **Task Log:** This text area displays the progress of the current job being run.
- **Explore Destination:** This button opens the destination folder if it exists.

The screenshot displays the Aquaforest Kingfisher Temporary License application window. The title bar reads "AQUAFOREST KINGFISHER TEMPORARY LICENSE". The main menu includes "Dashboard", "Job Settings" (highlighted), "Options", and "Help & Support". A "Service Status : Running" indicator is in the top right. Below the menu, a breadcrumb trail shows "Job Definition", "Select Variables", "Scheduler", "Alerts", "File Naming", "Advanced Settings", and "Running Job" (highlighted). The central "TASK LOG" panel shows the following text:

```
Starting New Job: 10000 Job At 10:54:29.  
Expires On Tuesday, 6 Mar, 2018 (Days Remaining : 61)  
Server Edition  
Multi-core License With 3 cores  
Running Command  
Getting Text from Page 1.  
Renaming J:\QA Folder\Kingfisher QA\Input\Barcode\sample_merge.pdf to J:\QA Folder\Kingfisher QA\Input\Barcode\Howard Gntttermn,.pdf  
Exit Code : 0  
  
Time taken = 1 second  
Finished Job At : 10:54:31  
  
Exit Code = 0  
  
Job 10000 has completed with status : Successful
```

The bottom toolbar contains eight icons with labels: Help, Stop, Save Job, Copy Job, Delete Job, Clear Error, View Log File, and Explore Destination.

2.3 Options

The options tab contains general settings in kingfisher like license keys, Smtip Settings, Themes etc.

2.3.1 License Keys

Enter the license key in the License key text box and click the “UPDATE KEY” button

Dashboard Job Settings **Options** Help & Support
License Email Theme Advanced

License Key

Temporary License

Expires On Tuesday, March 6, 2018 - (Days Remaining 61)

Multicore License With 3 Cores

Extract PDF Content to CSV/Excel Enabled

Scheduler is Enabled

Alerts are Enabled

Command Line Interface is Enabled

Server Edition

UPDATE KEY

2.3.2 Email

License Email Theme Advanced

Change SMTP Settings

☒ On

SMTP Server

SMTP Port

User Name

Password

Re-Password



Save Settings



Discard Changes

Option	Description
Smtp Server	Enter the address of your SMTP server
SMTP Port	Enter the SMTP port number
User Name	Enter your SMTP User Name
Password	Enter your smtp password.
Save Settings	Click to update the SMTP settings.
Discard Changes	Click this button to revert to the last saved SMTP settings.

2.3.3 Theme

Use this tab to switch between the different themes available in Kingfisher.

License Email Theme Advanced

Set Theme



2.3.4 Advanced Settings

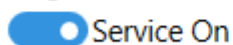
License Email Theme Advanced

Show Help Tips



Off

Kingfisher Service



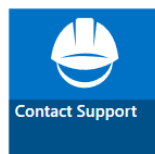
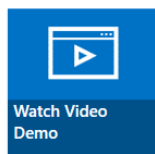
Service On

Option	Description
Show Help Tips	Switch this on if you want kingfisher to show you tips as you use it.
Kingfisher Service	Use this switch to On or Off the kingfisher service.

2.4 Help

Our help Tab give you access to all the different ways you can get support on how to use Kingfisher.

[Dashboard](#) [Job Settings](#) [Options](#) [Help & Support](#)



[Version](#)

1.0.160607.01

[About Us](#)

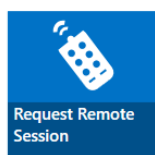
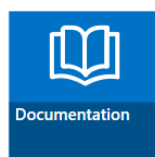
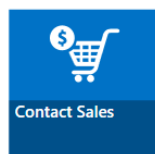
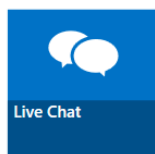
[Phone Number](#)

+44 (0)1296 768 727

[Business Hours](#)

Monday - Friday (9am - 5.30pm GMT)

Saturday-Sunday (Closed)



Option	Description
Watch Video Demo	This will launch a video showing the user how to create and run jobs in Kingfisher
Request Remote Session	Request a remote session and we will contact you to arrange a suitable time.
Contact Support	Launches the default Email Client with the email address of our support team.
Contact Sales	Launches the default Email Client with the email address of our sales team.
Live Chat	Opens our live chat in your default web browser
Aquaforest Blogs	This takes the user to the Aquaforest Blogs
Documentation	This Open the directory contain the Documentation of kingfisher

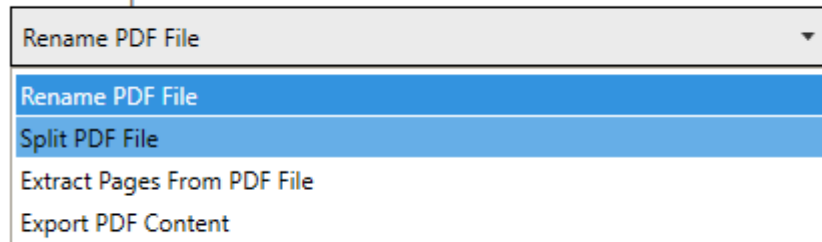
3 KINGFISHER OPERATIONS

Kingfisher has 4 main operations which are:

- Rename PDF File
- Split PDF File
- Extract Pages from PDF File
- Extract Content from PDF File

To select an operation, select one of the Main Operations in the “Select Operation” combo-box.

Select Operation



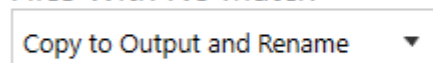
Each of the operation listed above are further divided into sub-categories, the section below explains each of this operations in more details.

3.1 Rename PDF File

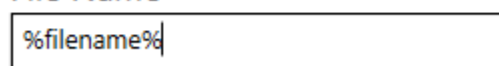
Select Operation



Files With No Match



File Name



Option	Description
Files With No Match	<p>This gives the user three options of what to do with files that do not match the text or barcode criteria specified by the user.</p> <ul style="list-style-type: none">• Do Not Copy to Output• Copy to Output• Copy to Output and Rename
File Name	<p>If the “Copy to Output and Rename” option is selected you will need to provide a filename mask like the one in the “File Naming” tab, the table below gives you a breakdown of the variables available.</p>

	%FILENAME%	The original file name without the .pdf extension
	%BOOKMARK%	This represents the bookmark name and can be used with the “Split by Top Level Bookmarks” split option only
	%TIME%	The current Time
	%DATE%	The current Date
	%RUNDATE%	The Time at which the job was executed, the difference between this and the %TIME% variable is that this value will be same for all files processed in a single job run.
	%JOBNAME%	The Name of the Job

3.1.1 Rename Based on Barcode

This Operation will take a PDF file that has barcodes in its pages as an input and renames the PDF file based on the value of the barcode. You can also specify Areas on the PDF page; kingfisher will check these Areas and use the barcode present there. If no Areas are selected, kingfisher will use the first barcode it encounters in the PDF document.

3.1.2 Rename Based on Text Match

This step is like the step above except that it uses text in the PDF document to rename the file. Unlike the barcode step, an Area must be selected for this step to work. You can also specify Regular Expressions and Words that appear before/after the word you want the file to be named to. These extra features are to help you validate the text you select.

3.1.3 Rename Based on Barcode and Text Match

This step is a combination of the two steps above, it allows a user to specify barcodes and text on a PDF page that the file can be renamed to.

3.2 Extract Pages from PDF File

Select Operation

Extract Pages From PDF File ▼

Extract Pages from File based on Text Match ▼

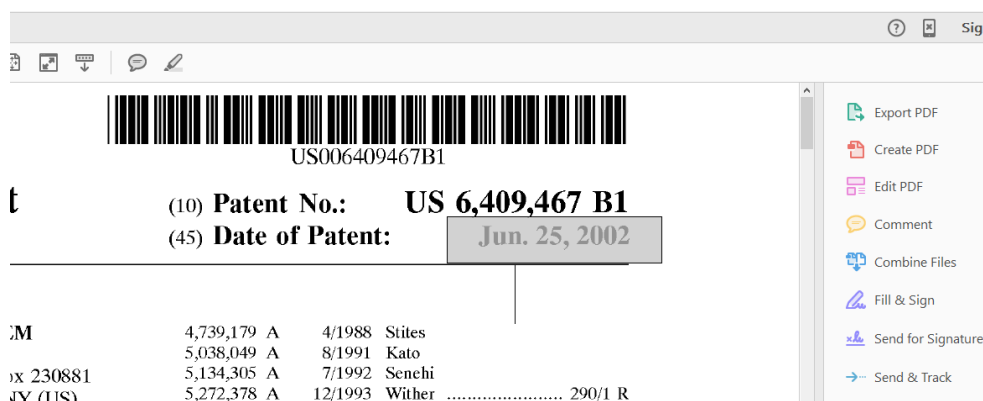
Extract Pages from File based on Text Match

Extract Pages from File based on Barcode

3.2.1 Extract Pages from File based on Text Match

This step allows you to extract single pages from a PDF file based on the presence of a text value in a zone. For example, in the image below you might want to extract any page that has a date value (Jun. 25, 2002) at that location, all you need to do is to set up an “Extract Pages from File based on Text Match” job, select the zone and provide some pattern matching to make sure a date is extracted.

Kingfisher also gives you the ability to rename the output file based on the text extracted from the PDF page.



The extract step has the following settings

Output File Options

Extract PDF Page(s) Options

Extract As Single Pages ▼

Extract As Single Pages

Merge All Extracted Pages

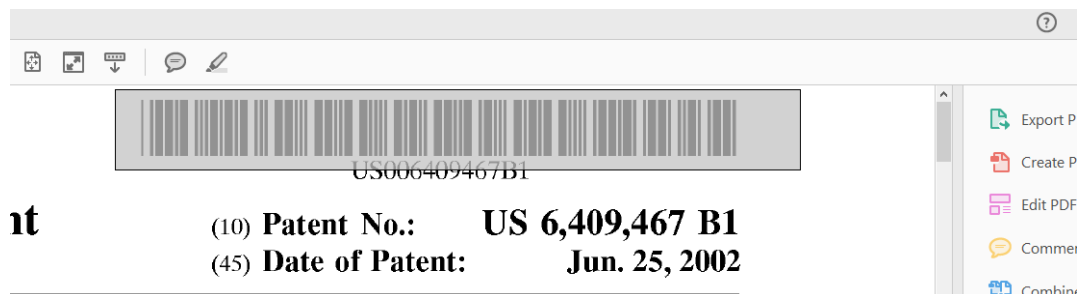
Merge Extracted Pages On Unique Expressions That Match

Screen Field / Button	Description
Extract as Single Pages	This option copies all the extracted pages as single page PDF files to the output folder.
Merge All Extracted Pages	Merges all the pages that were extracted into one document.
Merge Extracted Pages on Unique Expressions That Merge	Merges All the Extracted pages that have equal “%VALUE1%” values

3.2.2 Extract Pages from File Name based on Barcode

This step allows you to extract single pages from a PDF file based on the presence of a barcode value in a zone. For example, in the image below you might want to extract any page that has a barcode at that location, all you need to do is to set up an “Extract Pages from File based on Barcode” job and select the zone you are interested in. If no zone is selected the first barcode found in a page will be used.

Kingfisher also gives you the ability to rename the output file based on the value extracted from the PDF page.



The extract step has the following settings

Output File Options

Extract PDF Page(s) Options

Extract As Single Pages
Extract As Single Pages
Merge All Extracted Pages
Merge Extracted Pages On Unique Expressions That Match

Screen Field / Button	Description
Extract as Single Pages	This option copies all the extracted pages as single page PDF files to the output folder.
Merge All Extracted Pages	Merges all the pages that were extracted into one document.
Merge Extracted Pages on Unique Expressions That Merge	Merges All the Extracted pages that have equal “%VALUE1%” values

3.3 Split PDF File

Select Operation

Split PDF File ▼

Split File based on Text Match ▼

Split File based on Text Match

Split File based on Text Change

Split File based on Barcode

Split File based on Page Ranges

3.3.1 Split File based on Text Match

The split option is like the extract option except that instead of extracting a single page, it will split the file into pages using the pages that matches the text value as a divider.

Split File based on Text Match ▼

Output File Options

Page That Matches Text on First Page ▼

Pages With No Match

Copy to Output and Rename ▼

File Name

%filename%

Screen Field / Button	Description
Pages That Matches on First Page	This option puts the page that matches the text value as the first page in the output file.
Pages That Matches on Last Page	This option puts the page that matches the text value as the last page in the output file.
Remove Page That Matches Text	This option removes the pages that match the text expressions in the output files.
Pages with No Match	<p>This gives the user three options of what to do with pages that do not match the text or barcode criteria specified by the user.</p> <ul style="list-style-type: none">• Do Not Copy to Output• Copy to Output• Copy to Output and Rename
File Name	If the “Copy to Output and Rename” option is selected you will need to provide a filename mask like the one in the “File Naming” tab, the table below gives you a breakdown of the variables available.

	%FILENAME%	The original file name without the .pdf extension
	%BOOKMARK%	This represents the bookmark name and can be used with the “Split by Top Level Bookmarks” split option only
	%TIME%	The current Time
	%DATE%	The current Date
	%RUNDATE%	The Time at which the job was executed, the difference between this and the %TIME% variable is that this value will be same for all files processed in a single job run.
	%JOBNAME%	The Name of the Job

3.3.2 Split File based on Text Change

The split option is like the “Split File based on Text Match” option except that instead splitting very where there is a text match, it waits until the text that was matched has changed from the one on the previous page.

Split File based on Text Change ▼

Output File Options

Page That Matches Text on First Page ▼

Pages With No Match

Copy to Output and Rename ▼

File Name

%filename%

Screen Field / Button	Description
Pages That Matches on First Page	This option puts the page that matches the text value as the first page in the output file.
Pages That Matches on Last Page	This option puts the page that matches the text value as the last page in the output file.
Remove Page That Matches Text	This option removes the pages that match the text expressions in the output files.

3.3.3 Split File based on Barcode

The split option is like the extract option except that instead of extracting a single page, it will split the file into pages using the pages that matches the barcode value as a divider.

Split File based on Barcode ▼

Output File Options

Barcode on First Page ▼

Pages With No Match

Copy to Output and Rename ▼

File Name

%filename%

Screen Field / Button	Description
Barcode on First Page	This option puts the page that matches the barcode value as the first page in the output file.
Barcode on Last Page	This option puts the page that matches the barcode value as the last page in the output file.
Remove Barcode Page	This option removes the pages that match the barcode value in the output files.

3.3.4 Split File based on Page Ranges

This split operation uses characteristics like page numbers and bookmarks are to split PDFs documents, Has four split options.

- Split into Single Pages: Split the PDFs into single pages
- Split by Top Level Bookmarks
- Split by Page Ranges
- Split by Repeating Page Ranges

Screen Field / Button	Description										
Split Type	<i>One of:</i> Split into single pages Split by top-level bookmarks Split by page ranges (See below) Split by repeating page ranges (See below)										
Page Ranges	<p>Set of page ranges separated by commas that defines which pages from the original should be extracted. The following types of page ranges are allowed:</p> <table><tr><td>1</td><td>Specifies a single page</td></tr><tr><td>1-3</td><td>Specifies a range of pages</td></tr><tr><td>10-20even</td><td>Specifies even pages within the range</td></tr><tr><td>10-20odd</td><td>Specifies odd pages within the range</td></tr><tr><td>20-lastpage</td><td>Note that <i>lastpage</i> can be used to represent the last page in the document.</td></tr></table>	1	Specifies a single page	1-3	Specifies a range of pages	10-20even	Specifies even pages within the range	10-20odd	Specifies odd pages within the range	20-lastpage	Note that <i>lastpage</i> can be used to represent the last page in the document.
1	Specifies a single page										
1-3	Specifies a range of pages										
10-20even	Specifies even pages within the range										
10-20odd	Specifies odd pages within the range										
20-lastpage	Note that <i>lastpage</i> can be used to represent the last page in the document.										
Repeating Range	<p>Apply the page range at an interval of the repeating number. For example, if 2-4 is specified for page ranges, and 4 is specified as the repeating range, then the range is re-applied every 4 pages.</p> <p>Hence the file is split such that the first output file contains pages 2-4 from the original document, the second contains pages 6-8 and so on.</p>										

3.4 Extract Content from PDF File

Select Operation

Export PDF Content ▼

PDF to Text ▼

PDF to Text

PDF to CSV/XLSX

Advanced Export to CSV/XLSX

3.4.1 Extract Text from PDF File

This step simply extracts all the text in a PDF file, Kingfisher is intelligent enough to detect image PDF pages and OCR before extracting any text from it. The only type of files we can't extract meaningful text from by default are the ones with font encoding, we advise users to switch OCR for these file types.

Select Operation

Extract Text From PDF ▼

Start Page

End Page

Screen Field / Button	Description
Start Page	Page number of the page you want Kingfisher to start extracting text from.
End Page	Page number of the page you want Kingfisher to stop extracting text from.

3.4.2 PDF to CSV/XLSX

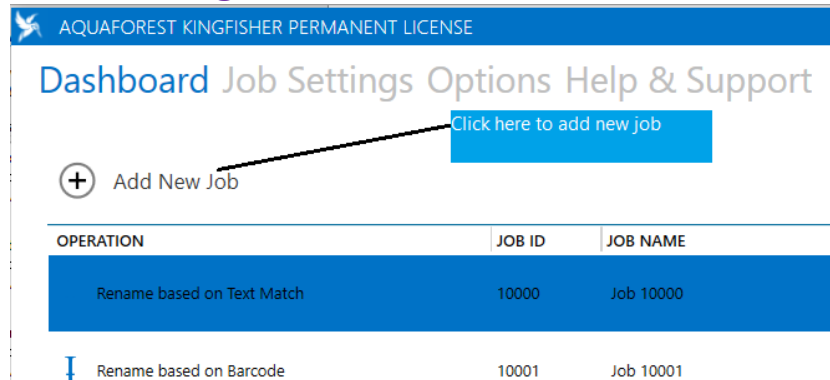
This step is used to extract tabular data from PDF files, see section 5 for more details.

3.4.3 Advanced Export to CSV/XLSX

This step extracts text that appears before/after certain expressions, see section 6 for more details.

4 CREATING AND RUNNING JOBS WITH THE GUI

4.1 Creating a new Job



AQUAFOREST KINGFISHER PERMANENT LICENSE

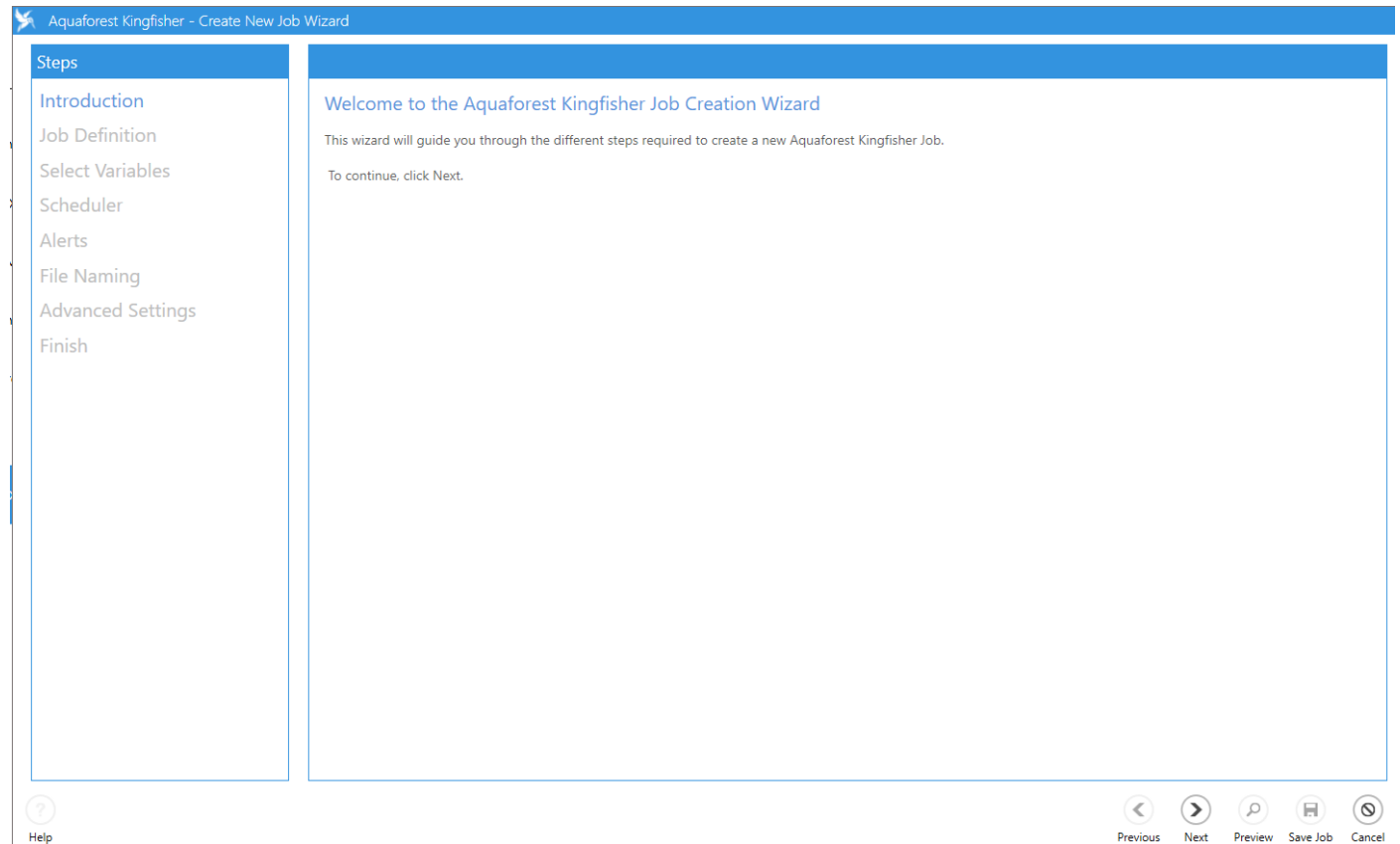
Dashboard Job Settings Options Help & Support

Click here to add new job

+ Add New Job

OPERATION	JOB ID	JOB NAME
Rename based on Text Match	10000	Job 10000
Rename based on Barcode	10001	Job 10001

To create a new job in Kingfisher, click on the “Add New Job” button, this will launch the new job wizard shown below.



Aquaforest Kingfisher - Create New Job Wizard

Steps

- Introduction
- Job Definition
- Select Variables
- Scheduler
- Alerts
- File Naming
- Advanced Settings
- Finish

Welcome to the Aquaforest Kingfisher Job Creation Wizard

This wizard will guide you through the different steps required to create a new Aquaforest Kingfisher Job.

To continue, click Next.

Help Previous Next Preview Save Job Cancel

Follow the steps below to create a new job

1. Click on the next Button at the bottom of the wizard, this takes you to the “Job Definition Tab”. Check section 2.1.3 for explanation of the fields in this window, choose the suitable options for the job and press next.

Aquaforest Kingfisher - Create New Job Wizard

Steps
Introduction
Job Definition
Select Variables
Scheduler
Alerts
File Naming
Advanced Settings
Finish

Enter the Name of the Job and Select Operation

Job ID
10007

Job Name
Job 10007

Select Operation
Rename PDF File

Rename based on Text Match

Files With No Match
Do Not Copy to Output

Location Details

Single File Folder Tree

Source

Destination Same as Source

Log File
C:\Aquaforest\Kingfisher\logfiles\Job 10007\%TIMESTAMP%.txt

Job Options

Continue on Error Off

Create Folders On

Case Sensitive Off

Max Cores 1

Debug Off

Overwrite Existing Files Off

OCR Off

Help Previous Next Preview Save Job Cancel

- One of the main advantages of Kingfisher is the ability to process pdf files based on the file content. To do this, we have created a zone definer to allow users select areas on the pdf page they want to extract text or barcode values from, the "Select Variable" contains the zone definer as shown below.

Aquaforest Kingfisher - Create New Job Wizard

Steps
Introduction
Job Definition
Select Variables
Scheduler
Alerts
File Naming
Advanced Settings
Finish

Kingfisher Variables

Add Item

%VALUE1%

Column Settings

Column Header %VALUE1%

Selected Zone all

Capture Barcode Text

Select text in zone

Where text matches any pattern

Refine Extracted Text

Page Number 1 All Pages

Zoom In/Out 100% Pages 1 / 1 Reload File

US0006361275B1

(12) **United States Patent**
Wobben

(10) Patent No.: **US 6,361,275 B1**
(45) Date of Patent: ***Mar. 26, 2002**

(54) **WIND ENERGY INSTALLATION**

(76) Inventor: **Aloys Wobben**, Argenstrasse 19, 26607 Aurich (DE)

(*) Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(a), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/463,822**
(22) PCT Filed: **Jun. 30, 1998**
(86) PCT No.: **PCT/EP98/03776**
§ 371 Date: **Jan. 25, 2000**
§ 102(e) Date: **Jan. 25, 2000**
(87) PCT Pub. No.: **WO99/05414**
PCT Pub. Date: **Feb. 4, 1999**
(30) **Foreign Application Priority Data**
Jul. 25, 1997 (DE) 197 31 918
(51) Int. Cl. **F04D 29/18**
(52) U.S. Cl. **416/33; 416/31**
(58) Field of Search **416/31, 33, 43, 416/44, 25**

(56) **References Cited**

4,348,155 A 9/1982 Barnes et al.
4,355,955 A 10/1982 Kisevec
4,550,259 A 10/1985 Bartels
5,019,006 A * 5/1991 Schneider et al. 416/43
5,655,878 A * 8/1997 Yamakawa et al. 416/31

FOREIGN PATENT DOCUMENTS
DE 25 46 884 4/1977
GB 2 067 247 7/1981
* cited by examiner

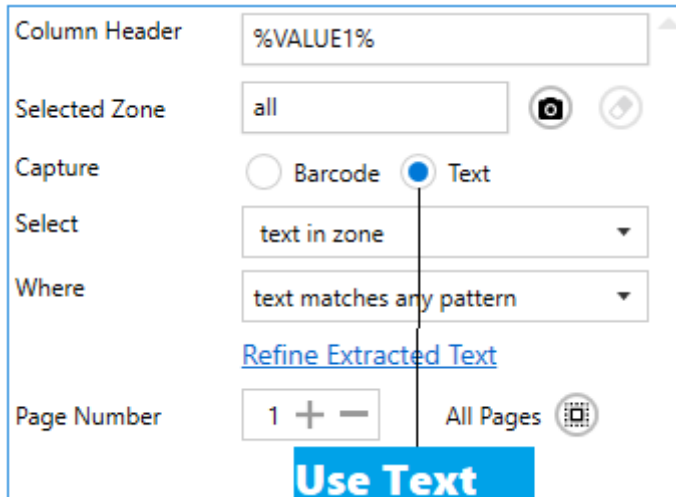
Primary Examiner—John Kwon
(74) Attorney, Agent, or Firm—Reed Smith LLP

(57) **ABSTRACT**
A wind power installation is disclosed comprising a rotor having at least one rotor blade for converting the kinetic energy of the wind into mechanical energy, an adjusting device for individually adjusting at least one rotor blade, a generator for converting the mechanical energy of the rotor into electrical energy, and an operative connection between the rotor and the generator for transmitting the mechanical energy of the rotor to the generator. The disclosed wind power installation therefore avoids specified problems of known installations and provides a wind power installation in which the loadings which can occur due to local, temporary peaks in the wind speed in portions of the rotor area are reduced. Accordingly, in the disclosed wind power installation, there is provided a measuring device which ascertains the instantaneous loading of a part of the wind power installation, a control device which ascertains a position of at least one rotor blade that is desired for the instantaneous loading, and suitably adjust the rotor blade by the adjusting device, and a connecting device which con-

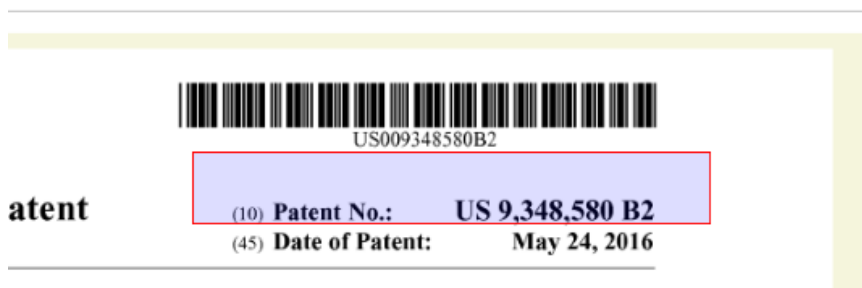
Help Previous Next Preview Save Job Cancel

To assign the patent number at the top right corner of the page to the variable named “%VALUE1%”, follow the steps below

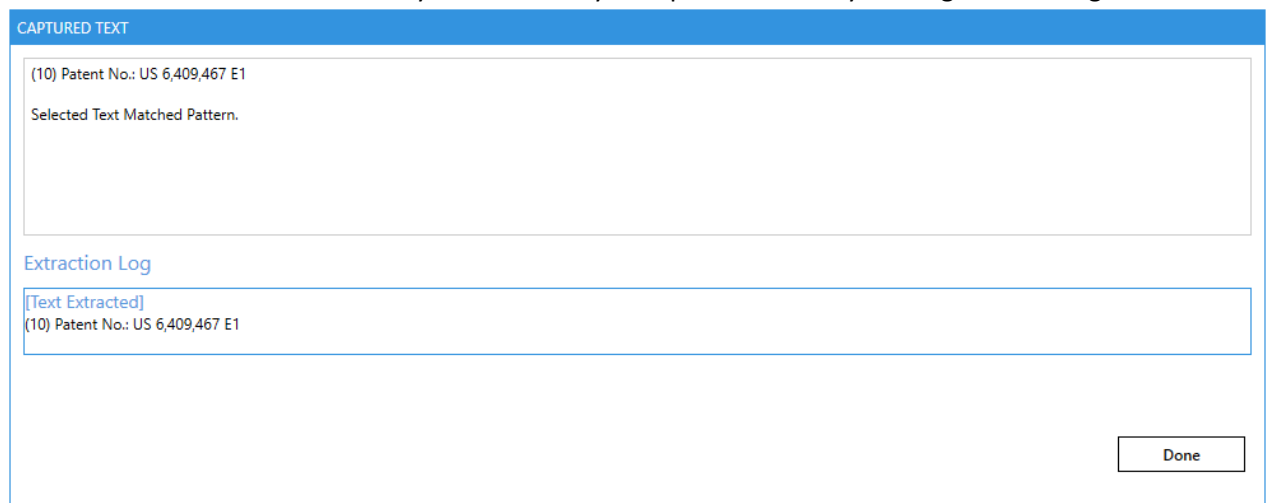
- Select the “Use Text” option associated with “%VALUE1%”.



- Now select the zone at the top right corner



- Click on the “Camera Icon” in the line on the “Selected Zone” Text Box, you will see the text below, if you want to extract the number alone you can refine your option further by clicking the “settings” button.



- Click on the Select text in zone combo box, choose the “Select all text in zone after value” option and provide “Patent No.:" as the value.

- Click on capture again to make sure the changes you made worked.

CAPTURED TEXT

US 6,409,467 E1
Selected Text Matched Pattern.

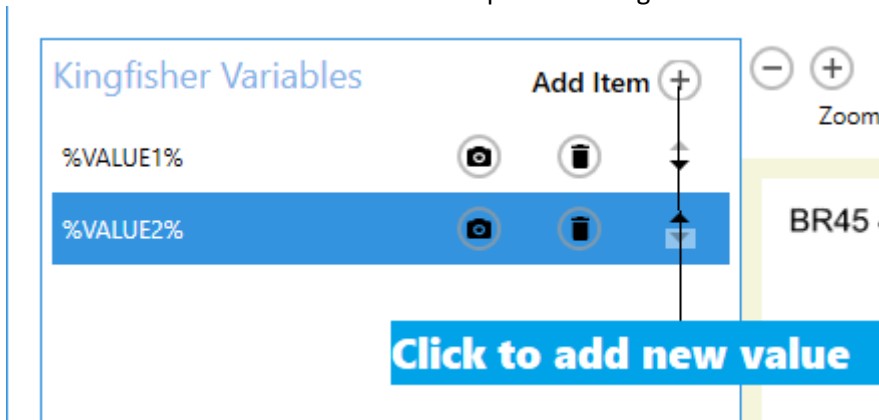
Extraction Log

[Text Extracted]
US 6,409,467 E1

Done

To assign the barcode at the top right corner of the page to the variable named “%VALUE2%”, follow the steps below

- Click on the “Add Item” Button at the top of the “Kingfisher Variables” Group Box.



- Select the “Barcode” option associated with “%VALUE2%”.
[Column Settings](#)

Column Header

%VALUE2%

Selected Zone

all

Capture

☒ Barcode
☐ Text

Barcode Type

All

Where

text matches any pattern

- Now select the zone at the top right corner



- Click on the “Camera Icon” button, you will see the text below

CAPTURED TEXT

US006409467B1
 Selected Text Does Not Match Pattern.

Done

- Set up the scheduler, we will use manual for this test.

Steps	
Introduction Job Definition Select Variables Scheduler Alerts File Naming Advanced Settings Finish	<div style="margin-bottom: 10px;"> <input checked="" type="radio"/> Manual <input type="radio"/> Once per day </div> <hr/> <div style="margin-bottom: 10px;"> At : <div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">1:04:51 PM</div> <div style="border: 1px solid #ccc; width: 20px; height: 20px; text-align: center; line-height: 20px;">🕒</div> </div> <div style="margin-bottom: 10px;"> <input type="radio"/> Continuous </div> <hr/> <div style="margin-bottom: 10px;"> Every: <div style="display: flex; align-items: center;"> <div style="border: 1px solid #ccc; padding: 2px; margin-right: 5px;">10</div> <div style="margin: 0 5px;">+ —</div> <div style="border: 1px solid #ccc; padding: 2px; margin-left: 5px;">Minutes</div> <div style="margin-left: 5px;">▼</div> </div> </div> <div style="margin-bottom: 10px;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> Between <div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">12:00:01 AM</div> <div style="border: 1px solid #ccc; width: 20px; height: 20px; text-align: center; line-height: 20px;">🕒</div> </div> <div style="width: 45%;"> And <div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">11:59:00 PM</div> <div style="border: 1px solid #ccc; width: 20px; height: 20px; text-align: center; line-height: 20px;">🕒</div> </div> </div> </div> <div style="margin-bottom: 10px;"> <input type="radio"/> Run once </div> <hr/> <div style="margin-bottom: 10px;"> On : <div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">1/4/2018</div> <div style="border: 1px solid #ccc; width: 20px; height: 20px; text-align: center; line-height: 20px;">📅</div> </div> <div style="margin-bottom: 10px;"> At : <div style="border: 1px solid #ccc; padding: 2px; display: inline-block;">1:04:51 PM</div> <div style="border: 1px solid #ccc; width: 20px; height: 20px; text-align: center; line-height: 20px;">🕒</div> </div>

- Set the alerts, we will not use alerts for this example.

- After setting the “Scheduler” and “Alerts”, click next to go to the “File Naming” tab, this allows you to specify a template for the output file, for this example, we are going to use the two variables we selected in the previous tab, “%VALUE1%_%VALUE2%”, after you choose a suitable template, click the “next” button.

Steps
Introduction
Job Definition
Select Variables
Scheduler
Alerts
File Naming
Advanced Settings
Finish

Name Template

%VALUE1%_%VALUE2%

VARIABLE	DESCRIPTION
%VALUE3%	
%VALUE4%	
%FILENAME%	Replaced by the Name of the Original File
%DATE%	Replaced by The Current Date
%TIME%	Replaced by The Current Time
%PAGENUMBER%	Replaced by The Page Number Where the Text/Barcode Was Found
%PAGESTART%	Replaced by The Start Page Number of a Split PDF
%PAGEEND%	Replaced by The End Page Number of a Split PDF
%INDEX%	Replaced by The Split or Extract Index of a file
%BOOKMARK%	Replaced by the Bookmark title, Use this with split by bookmark
%RUNDATE%	Replaced by the DateTime of when the job started running, so all the files in the folder or tree will share the same RUNDATE.
%JOBNAME%	Replaced by the name given to the job.

- The “Advanced Settings” tab allows the user to provide properties of the output PDF file, it also provides a few OCR settings, for more information check section 2.3. After you are through with the settings, click next.

Steps
Introduction
Job Definition
Select Variables
Scheduler
Alerts
File Naming
Advanced Settings
Finish

Security Properties OCR Settings Text Matching Other Settings

Document Security

Set Security

Off

Source Password
Target User Password
Target Owner Password

Target Document Permissions

Retain Permissions

On

Assembly

Off

Degraded Printing

Off

Modify Annotations

Off

Copy

Off

Allow All Permissions

Off

Form Filling

Off

Screen Readers

Off

Modify Contents

Off

Printing

Off

7. The “Finish” tab will show you a summary of the job you set up

The screenshot shows the 'Finish' tab of a software interface. On the left is a 'Steps' sidebar with links: Introduction, Job Definition, Select Variables, File Naming, Advanced Settings, and Finish (highlighted). The main area displays job configuration details:

- Job Definition**
Job Name: Job 10006
Select Operation: Rename By Text & Barcode
Create Folders: Yes
Max Cores = 1
Output PDF Page Rotation: -1
- Locations**
Source Type : file
Source : C:\Aquaforest\Kingfisher\QA\input\Text Match\postcode.pdf
Destination : C:\Aquaforest\Kingfisher
Log File : C:\Aquaforest\Kingfisher\logfiles\ Job 10006\%TIMESTAMP%.txt
- Selected Variables(s)**
%VALUE1%
Captured Zone : 289.55:7.06:430:62
Select all text in zone after value : Patent No.:
Use Barcode : Yes
- Output File Naming(s)**
Name Template : %VALUE1%
- OCR Settings**
OCR Language: English
Despeckle: No Despeckle
Remove Lines: True
Deskew: True

At the top right of the main area is a 'Back to Preview' button. At the bottom of the window is a toolbar with icons for Help, Previous, Next, Preview, Save Job, and Cancel.

8. To confirm that you are happy with the job, click the preview button to see what

The screenshot shows the 'Preview' window. The 'Steps' sidebar on the left is identical to the previous screenshot, with 'Finish' highlighted. The main area displays execution details:

- Expires On Wednesday, 22 Mar, 2017 (Days Remaining 13)
- Multi-core License With 8 cores
- Kingfisher Advanced Edition
- Running Command
- File = US00640946781.pdf, Folder = C:\Aquaforest\Kingfisher
- Exit Code : 0
- Time taken = 6 seconds

At the top right of the main area is a 'Back to Summary' button. The bottom toolbar is also present.

9. Click on the “create” button to create the new job.

4.2 Editing a job

To edit a job in Kingfisher, you should go to the “Dashboard”, select the job you want to edit and go to the “Job Settings” tab, you can also achieve this by double clicking on the job you want to edit, you can also edit a job by clicking the edit button beside the Job name or by clicking the edit option in the context menu as shown below.

[Dashboard](#) [Job Settings](#) [Options](#) [Help & Support](#)

Add New Job

OPERATION	JOB ID	JOB NAME	LAST RUN	RUN STATUS	
Rename based on Text Match	10000	Job 10000	24 Feb 2017 15: 35:02	Finished	
Rename based on Barcode	10001	Job 10001	24 Feb 2017 15: 35:22	Finished	
Rename based on Text Match and Barcode	10002	Job 10002	24 Feb 2017 15: 36:06	Finished	
Split File based on Text Match	10003	Job 10003	24 Feb 2017 15: 37:49	Finished	
Split File	10004	split 1	24 Feb 2017 15: 38:02	Finished	
Split File based on Page Ranges	10006	Split 3	15 Feb 2017 17: 37:31	Finished	
Extract Pages from File based on Text Match	10007	Extract 1	15 Feb 2017 17: 49:12	Finished	
Extract Pages from File based on Barcode	10008	Extract 2	15 Feb 2017 17: 50:44	Finished	
PDF to Text	10009	Job 10009	15 Feb 2017 17: 53:46	Finished	

Click the buttons to edit the job.

Delete Job

Copy Job

Edit Job

The “Job Settings” tab is explained in section 2.2 it contains all you need to know about editing jobs in Kingfisher, after making changes to the job, click on the save button to update the Job definition file.

[Dashboard](#) [Job Settings](#) [Options](#) [Help & Support](#)

[Job Definition](#) [Select Variables](#) [File Naming](#) [Advanced Settings](#) [Running Job](#)

Enter the Name of the Job and Select Operation

Job ID

Job Name

Select Operation

Split PDF File

Split File based on Text Match

Output File Options

Page That Matches Text on First Page

Location Details

☒ Single File

☐ Folder

☐ Tree

Source

Destination ☐ Same as Source

Log File

Job Options

Case Sensitive

Debug

Continue on Error

☒ Off

☒ Off

☒ Off

Create Folders

OCR

Overwrite Existing Files

☒ On

☒ Off

☒ Off

Max Cores

5 EXTRACT TABULAR DATA FROM PDF

Select Operation

Export PDF Content

PDF to CSV/XLSX

Output File

.xlsx

Append Data to Existing File

True

If you want to extract all the files

Append As WorkSheet



On

Screen Field / Button	Description
Output file	<ul style="list-style-type: none">• csv: Produces a simple csv file.• xlsx: Produces and Excel File
Append Page Data to Existing File	If set to true, instead of overwriting the output file, kingfisher will append the contents to the end of the current file.
Append as WorkSheet	When on, this will make kingfisher add an extra worksheet for each PDF file, instead of appending the data at the end on the first Worksheet.

Aquaforest Kingfisher has the capability of recognizing tables in PDF files with very minimal user intervention. The tabular data it extracts is usually written to a csv or excel file.

To extract all the tables recognized in the PDF file to the csv file you can just load the input file and run the job. If you want to tailor the extraction further and group the tables to your own liking, you can read the section below.

The Kingfisher Table control is divided into 2 tabs called the “Document View” and the “Table View”

5.1 The Document View

This tab shows a visual representation of the PDF file and the table recognized on the file, the table are usually highlighted. Below is a screen shot showing the Document View tab.

The document view usually shows the table recognized in the first 10 pages, this value can be changed as shown in the table below. It also provides some properties that could be changed to alter the way the tables are recognized, read the table below to see what each property represents.

[Job Definition](#) [Select Variables](#) [File Naming](#) [Advanced Settings](#) [Running Job](#)

[Document View](#) [Table View](#)

Zoom In/Out

Pages

Reload Tables

Use First Table To Derive All Table

Off

Use Table Lines To Detect Tables

On

Extract Only Grouped Tables

Off

Use Word Coordinates To Detect Tables

On

Minimum Table Gap

50

Number of Pages To Check

10

Aquaforest Software	Keywords	Latest Release	
Autobahn DX	High performance	4.02	
Kingfisher	Extraction	1.1	
Searchlight	SharePoint	1.2	
PDF Junction	PDF	3.4	
TIFF Junction	OCR	Table ID : 6 - Group ID : 1	
Tabula DX	Search Engine	1.4	
TIFF Server	TIFF Viewer	4.0	

Value	Details
Zoom in/Out	You can use this to zoom in or zoom out of the file loaded in the table viewer control.
Pages	Use this control to move through the pages of the loaded file.
Reload Tables	Clicking this button will make Kingfisher reload the tables in the PDF file, this allows you to change some settings and reload the tables in the file after the file has been processed.
Crop Table	Switching this on will allow the user to specify an area where kingfisher should check for tables, this method produces more accurate result because it eliminates any possible noise.
Do Not Write Header to Output	Switching this on will not write the Group Header to the output file, this is important if you want to write similar table data from multiple files to one output file, it will preserve continuity.
Use First Table to Derive All Tables	This setting instructs Kingfisher to use the first table in the file as a template to recognise all the other tables in the file.
Use Table Lines to Detect Tables	If set to true, Kingfisher will use the PDF graphic line to find the tables in the file.
Use Word Coordinates to Detect Tables	This setting instructs Kingfisher to use the coordinates of words on a page to recognise tables
Extract Only Grouped Tables	Kingfisher gives the user the ability to group tables depending on different rules, turning this setting on will write only the tables grouped to the csv file
Number of Pages to Check	The process of table recognition is CPU intensive; thus, kingfisher limits the number of tables displayed in the GUI to the first 10 pages. You can increase or reduce it using the textbox.
Minimum Table Gap (pt)	Once the space between two adjacent lines exceeds the value given here, the first line will be interpreted as the end of the table.
Table Space (pt)	Once the space between two words exceeds this value, kingfisher will recognise that space as a column, note if the value is 0 or less, kingfisher will ignore this and work out the space automatically.
Minimum Number of Rows	Only tables with number of rows greater than or equals to this value will be picked up
Minimum Number of Columns	Only tables with number of columns greater than or equals to this value will be picked up

5.2 Table View

The Table View shows the data that was successfully extracted from the PDF file, it is divided into two parts explained below:

- The controls on the left are divided into two tabs named “Tables” and “Grouped Tables”, the tabs. They contain a list of tables found and some other controls for grouping tables.
- The right part contains a Data grid which displays the data in the Table/Grouped Table Selected.

Job Definition [Select Variables](#) [File Naming](#) [Advanced Settings](#) [Running Job](#)

Document View [Table View](#)

The screenshot shows the 'Table View' interface. On the left, there are two tabs: 'Tables' (selected) and 'Grouped Tables'. Below the tabs, there are up and down arrow buttons and a counter '1 / 3'. A list of tables is shown with 'Table ID : 0' selected. Below the list, there is a note: 'Tab contains controls to refine results more.' On the right, a data grid displays the data for the selected table. The grid has three columns: 'Column 1', 'Column 2', and 'Column 3'. The data rows are as follows:

Column 1	Column 2	Column 3
Aquaforest Software	Keywords	Latest Release
Autobahn DX	High performance	4.02
Kingfisher	Extraction	1.1
Searchlight	SharePoint	1.2
PDF Junction	PDF	3.4
TIFF Junction	OCR	4.1
Tabula DX	Search Engine	1.4
TIFF Server	TIFF Viewer	4.0
TIFF Archive	TIFF to PDF	1.0
OCR SDK	OCR, IRIS	2.2

A note at the bottom right states: 'The data of the Selected Table/Grouped Table shown in a datagrid.'

The next section will dive deeper into the “Table View”.

5.2.1 Tables

This is a very straight forward tab; it contains only two controls.

Value	Details
UP/Down Control	This the control at the top of the “Tables” tab, it is used to traverse through the tables displayed in the List below. Clicking The up or down button changes the currently selected table which in loads the data grid on the right
The table list	This is the second control; it contains a list of all the table recognized in the document together with their IDs’. Clicking on any one of them will load the selected table in the Data grid on the right.

5.2.2 Grouped Tables

By default, Kingfisher can extract all structured data in a PDF file and write it to a “.csv” or “.xlsx” file. We also understand that users might not want to extract all the tables found in a document or the user might want to group some similar tables into one group with a common header.

Because of the issues raised in the preceding paragraph, we have decided to give the user the ability to group/exclude tables and edit the headers. The following sections will explain this in more depth.

Column 1	Column 2	Column 3
Autobahn DX	High performance	4.02
Kingfisher	Extraction	1.1
Searchlight	SharePoint	1.2
PDF Junction	PDF	3.4
TIFF Junction	OCR	4.1
Tabula DX	Search Engine	1.4
TIFF Server	TIFF Viewer	4.0
TIFF Archive	TIFF to PDF	1.0
OCR SDK	OCR, IRIS	2.2
Autobahn DX	High performance	4.02

5.2.2.1 Grouping Criteria

This section explains how users can group various tables based on the grouping criteria offered by Kingfisher.

<Choose Grouping Criteria>

- Group By Column Count
- Where the rows below are the same
- Where the cells below are the same
- Where the cells below match expression
- Where the columns below match expression

- Header Rows: If you are writing a group of say 5 tables to a “.csv” file, the table header will be repeated for each table thus the final CSV file won't be very clean. As result, Kingfisher will skip the first “n” rows provided in the header rows control.

5.2.2.1.1 Group by Column Count

This is a straight forward option; it simply groups all the tables with the same number of columns. This option will also allow to change the provide the header rows (See 1.2.3).

5.2.2.1.2 Where the rows below are the same

This criterion will check all the tables for the row specified and group the tables based on identical rows. The example below will group all the tables with the same first row as one group.

Unfortunately, you can't save headers for this type of criteria, this is because the table types recognized here are not very predictable and will vary across different files. We decided to disable that feature to avoid putting wrong headers on tables.

Checking the Use Row as Header Check Box will use the Row Matched as the header row.

Where the rows below are the same

Row

☐ Use Row As Header

5.2.2.1.3 Where the cells below are the same

This is the same as the previous option, the only difference is that it compares a single cell instead of the whole row.

Unfortunately, you can't save headers for this type of criteria, this is because the table types recognized here are not very predictable and will vary across different files. We decided to disable that feature to avoid putting wrong headers on tables.

Checking the Use Row as Header Check Box will use the Row Matched as the header row.

Where the cells below are the same

Row

Column

☐ Use Row As Header

5.2.2.1.4 Where cells below match expression

This option groups all the tables where the cells provided below matches the Regular Expression given. Note, you can use the '+' button to add more items

This option will also allow to change the provide the header rows (See 1.2.3).

Checking the Use Row as Header Check Box will use the Row Matched as the header row.

Where the cells below match expression +

Row	Column	Expression
2	5	[0-9]{9}

☐ Use Row As Header 🗑️

5.2.2.1.5 Where Columns below match expression

This option groups all the tables where the columns provided below matches the Regular Expression given. Note, you can use the '+' button to add more items

This option will also allow to change the provide the header rows (See 1.2.3).

Checking the Use Row as Header Check Box will use the Row Matched as the header row.

Where the columns below match expr +

Column	Expression
5	[0-9]{9}

☐ Use Row As Header 🗑️

Column	Expression
1	

☐ Use Row As Header 🗑️

Regex cannot be Empty

5.2.2.2 Exclusion criteria

Kingfisher also allows the Users to exclude table with characteristics they are not interested in, to use this feature you will have click on the "Show Exclusion Criteria" Expander to view the various option

⬆ SHOW EXCLUSION CRITERIA

[<Choose Exclusion Criteria>](#)

- [<Choose Exclusion Criteria>](#)
- [Exclude By Table ID](#)
- [Exclude Where the cells below match expression](#)
- [Exclude Where the columns below match expression](#)

5.2.2.2.1 Exclude by Table ID

This option simple excludes any table with the ID provided below.

Exclude By Table ID

+

Add Item

Table Id
<div>1<div></div></div>

5.2.2.2.2 Exclude cells below match expression

This option excludes all the tables where the cells provided below matches the Regular Expression given. Note, you can use the '+' button to add more items

Exclude Where the cells below match expression

+

Add Item

Row	Column	Expression
<div>1</div>	<div>1</div>	<div></div>

5.2.2.2.3 Exclude Where Columns below match expression

This option excludes all the tables where the columns provided below matches the Regular Expression given. Note, you can use the '+' button to add more items.

Exclude Where the columns below match exp

+




Add Item

Column	Expression
<div>1</div>	<div></div>

Regex cannot be Empty

5.2.3 Data grid

The main use of the data grid is to show the users the data that has been extracted from the PDF file, you can also use it to Edit headers (If the pen symbol appears next to the header) as shown Below. After editing, just click the save job button.

	AQUAFORST SOFTWARE 	KEYWORDS 	Column 3 
	Autobahn DX	High performance	4.02
	Kingfisher	Extraction	1.1
	Searchlight	SharePoint	1.2

6 ADVANCED EXPORT TO CSV/XLSX

This is step extract text based on certain keywords in a PDF file, it is used to extract text that appears after or before a certain expression, this can be used to process a collection of invoices, receipts and forms. The impressive part of it is that it uses OCR if need be so users with image PDF files need not worry. The values extracted will be written to a csv file where the expression will be the column header.

Below is a step by step guide to using the Smart Text Extraction

1. Choose the "Export PDF Content" → "Advanced Export to CSV/XLSX" step then go to the "Select Variable" tab. As you can see it is very similar to the select variables tab in section 2.2.2 but for a few extra options explained in the table below..

The screenshot shows the Kingfisher Variables interface. On the left, there's a 'Kingfisher Variables' panel with 'To' and 'From' fields. Below it is the 'Column Settings' panel. The 'Column Header' is 'From'. 'Selected Zone' is 'all'. 'Capture' is set to 'Text'. 'Select' is 'all text in zone after value'. 'Value' is 'From:'. 'Where' is 'text matches any pattern'. There's a 'Refine Extracted Text' link. Below that are toggle switches for 'Copy Across Rows' (checked), 'Multiline Column' (checked), 'Invoice Column' (checked), and 'Remove Expression Values' (checked). 'No Of Values' is 'All'. 'Page Number' is '1'. On the right, there's a preview of the extracted text, which includes a 'Fax' section with fields for 'To', 'Fax', 'Phone', 'Re', and 'Comments'.

Value	Description
Copy Across Rows	Check this box if you want a value like "Invoice Number" that appears only once in a page to be copied across all rows in that page.
Multiline Column	Check this box if you want the different lines in a zone to be extracted as different values.
Invoice Column	Select this option if the current column is part of an invoice, this will make sure kingfisher gets the multiline values. Note Kingfisher will use the first column you add as a marker for the rest in the invoice.
Remove Expressions Values	This option will trim the text extracted to the first occurrence of any "Column Expression Value" in the job

No of values	Say there is more than one occurrence of an expression in the selected zone, this number control will you to set the maximum amount of values that should be extracted per zone.
Pages	This allows the user browse through the loaded pages.

2. Select a zone you want to extract the text from, enter the Expression which you want to extract the text next to it, to extract the name “Aquaforest Test”, enter “To:”.

The screenshot shows the 'Kingfisher Variables' application interface. On the left, the 'Column Settings' panel is open, showing the 'To' column header. The 'Selected Zone' is set to '84.47:271.06:224:46'. The 'Capture' method is set to 'Text'. The 'Select' dropdown is set to 'all text in line after value'. The 'Value' field contains 'To:'. The 'Where' dropdown is set to 'text matches any pattern'. The 'Refine Extracted Text' section has 'Copy Across Rows' and 'Remove Expression Values' both set to 'Yes'. The 'No Of Values' is set to 'All' and the 'Page Number' is set to '1'. On the right, a sample document is displayed with a 'Fax' section. The 'To:' field in the 'Fax' section is highlighted with a red box, and a line connects it to the 'To:' field in the 'Column Settings' panel.

3. After you enter the Expression, click on the camera icon button next to the item or in the second line of the “Column Settings” Group Box.

The screenshot shows the 'CAPTURED TEXT' section at the top, which displays 'Aquaforest Test' and 'Selected Text Matched Pattern.' Below this is the 'Extraction Log' section, which is currently empty. A 'Done' button is located at the bottom right of the interface.

- As you can see by default Kingfisher will extract the word that appears after the Expression provided. The rest of the Interface works the same as the “Select Variables” tab explained in section 2.2.2
- You can add several Expressions before you run the job.

Kingfisher Variables

To

From

Fax

Pages

Add Item

125%

1 / 1

Reload File

Column Settings

Column Header

Selected Zone

Capture

Select

Value

Where

Copy Across Rows

Remove Expression Values

No Of Values

Page Number

Pages

414.68:316.76:131.24:29.08

Barcode Text

all text in line after value

Pages:

text matches any pattern

No

Yes

All

1

Street Address

City, ST ZIP Code

Phone

Fax

Website

Company Name

Fax

To:	Aquaforest Test	From:	John test
Fax:	+44400595668	Pages:	5
Phone:	+44983838387	Date:	Date
Re:	Subject	cc:	Name

☐ Urgent
☐ For Review
☐ Please Comment
☐ Please Reply
☐ Please

Comments:

- Below is the expected output

Clipboard Font Alignment				
A1				To:
	A	B	C	D
1	To:	From:	Fax:	Pages:
2	John Dave	Aquaforest Support	4420938477	1000
3	John Dave	Aquaforest Support	4420938477	1000
4	Steve Dave	Kingfisher Support	4420938477	1000
5	SINGH John	ABUZ Support	23420938477	1000
6	Mystic Trunp	Governor pool	4420938477	1000
7	David Sun	Mars Titan	48888890909	1000
8	May David	MP meeting	2348585889	2

7 XML JOB DEFINITION FILES

Any job created in kingfisher is saved in a job definition file, these are xml files usually created in the conditions folder. These files can be used to execute jobs from the Command line using the –JobFile parameter.

Developers may wish to create or generate XML job files using the information below.

A sample job file is shown here:

```
<pdfsplitterJob>
  <operation>renametext</operation>
  <jobid>10000</jobid>
  <conditionname> Job 10000</conditionname>
  <jobspecialoptions>
  </jobspecialoptions>
  <joboptions> -language 0</joboptions>
  <pagerangeoption>0</pagerangeoption>
  <splitrange>
  </splitrange>
  <frompage>1</frompage>
  <topage>9999</topage>
  <splitmode>
  </splitmode>
  <splitrepeatingrange>
  </splitrepeatingrange>
  <maxcores>1</maxcores>
  <condition>rename</condition>
  <usenametemplate>False</usenametemplate>
  <outputnamemask>%VALUE1%</outputnamemask>
  <sourcefiles>C:\Aquaforest\Kingfisher\Input\Text Match\postcode.pdf</sourcefiles>
  <password>
  </password>
  <target>C:\Aquaforest\Kingfisher\output\Text Match</target>
  <sourcetype>file</sourcetype>
  <casesensitive>False</casesensitive>
  <advancedflags>
  </advancedflags>
  <metadata>
  </metadata>
  <security>
  </security>
  <dcoptions>
  </dcoptions>
  <value1location>1.57:8.73:120.4:43.87</value1location>
  <nomatchfilename>
  </nomatchfilename>
  <nomatchoption>1</nomatchoption>
  <uselines>False</uselines>
  <extractgroup>False</extractgroup>
  <writehead>False</writehead>
  <appendcsv>>false</appendcsv>
  <usefirsttableforall>False</usefirsttableforall>
  <usewords>False</usewords>
  <useworksheets>False</useworksheets>
  <mincolumns>1</mincolumns>
```

```

<removelines>False</removelines>
<deskew>False</deskew>
<converttotiff>0</converttotiff>
<converttotiffdpi>0</converttotiffdpi>
<retainbookmarks>False</retainbookmarks>
<retainmetadata>False</retainmetadata>
<binarize>False</binarize>
<language>0</language>
<despeckle>0</despeckle>
<tablespace>1</tablespace>
<pagestocheck>10</pagestocheck>
<minrows>1</minrows>
<outputsript>
</outputsript>
<jobtemp>J:\dev\Source Control\Kingfisher
2.0\PDFjunction.Deployment\temp\aquaforest\kingfisher\jobs\10000</jobtemp>
<onerrorcontinue>>false</onerrorcontinue>
<errors>
</errors>
<mergeextarctedpagesmatch>False</mergeextarctedpagesmatch>
<pagerotation>-1</pagerotation>
<csvoutput>xlsx</csvoutput>
<tablebreak>50</tablebreak>
<mergeextarctedpages>
</mergeextarctedpages>
<logfile>C:\Aquaforest\Kingfisher\logfiles\ Job 10000\%TIMESTAMP%.txt</logfile>
<lastlogfile>C:\Aquaforest\Kingfisher\logfiles\ Job 10000\16-13-33.txt</lastlogfile>
<kingfisherlivelog>J:\dev\Source Control\Kingfisher
2.0\PDFjunction.Deployment\logfiles\livelogs\10000.log</kingfisherlivelog>
<runstatus>C:\Aquaforest\Kingfisher\status\10000.txt</runstatus>
<lastrundate>09 Jun 2017 16: 13:32</lastrundate>
<overwriteexisting>False</overwriteexisting>
<overwriteexistingcurrent>False</overwriteexistingcurrent>
<debug>False</debug>
<doocr>False</doocr>
<createfolders>True</createfolders>
<schedulecontinuousand>23:59:00</schedulecontinuousand>
<schedulecontinuousbetween>00:00:01</schedulecontinuousbetween>
<schedulecontinuousevery>10</schedulecontinuousevery>
<schedulecontinuouseveryunit>minutes</schedulecontinuouseveryunit>
<scheduleonceperdayat>15:31:51</scheduleonceperdayat>
<schedulerrunonceat>15:31:51</schemulerrunonceat>
<schedulerrunonceon>1/4/2018 3:31:51 PM</schemulerrunonceon>
<schedulertype>Manual</schedulertype>
<emailbody>Processing of Job: '%JOBNAME%' completed with status: '%STATUS%' .
Log file: %LOGFILE%
</emailbody>
<emailsubject>%JOBNAME% %STATUS%</emailsubject>
<toemail>
</toemail>
<fromemail>
</fromemail>
<sendemailonerror>False</sendemailonerror>
<sendemailonsucces>False</sendemailonsucces>
<continueonerror>False</continueonerror>

```



```

<removewhitespaces>False</removewhitespaces>
<usetriggerfile>False</usetriggerfile>
<deletetriggerfile>False</deletetriggerfile>
<triggerfile>
</triggerfile>
<csvlogfile>J:\dev\Source Control\Kingfisher
2.0\PDFfunction.Deployment\logfiles\csvlogs\10000.csv</csvlogfile>
<kingfisherversion>2.0.220817</kingfisherversion>
<TextExtraction>
  <ExtractionItem Barcode="false" Regex="0" CopyValuesToAllRows="false" SelectMultipleLines="false"
RemoveKeywords="true" BarcodeFormat="" PageNumber="" ValueCount="" Expression="" Format=""
HeaderName="%VALUE1%" Location="1.57:8.73:120.4:43.87" Position="6" />
</TextExtraction>
</pdfsplitterJob>

```

Attribute	Description
operation	Must be split, extract or rename
sourcetype	Source type (file, folder, tree). The default value is file.
condition	
target	Target directory for result files. If not specified, the source directory will be used as the target.
Joboptions	Set of options for the specified operation. Described in detail in section 6.2
jobspecialoptions	Set of options for the specified operation. Described in detail in section 6.2.1 and 6.2.2
outputnamemask	The Name Template explained in section 4.1.5
usenametemplate	If the value is true, the Name Template will be used instead of the script.
Metadata	Metadata settings for result PDF files. By default, metadata fields are left blank. Described in detail in section 6.2.3
Security	Security settings for result PDF files. By default, files are not secured. Described in detail in section 6.2.4
docoptions	Document option settings for result PDF files. Described in detail in section 6.2.5
Sourcefiles	Source PDF file, folder or tree. May be multiple files for merge operations.
outputscript	The file naming script.
advancedflags	Used to pass extra parameters, do not use unless directed by Aquaforest Technical team.
logfile	If specified, output will be logged to a file with this name in
TextExtraction	This contains the definitions of text to be extracted

8 USING KINGFISHER FROM THE COMMAND LINE

Kingfisher can be accessed via the command line to run rules that have already been created in the GUI. You can also run kingfisher directly from the command line.

The executable used for running Kingfisher from the command line is "Kingfisher.Commandline.exe"

8.1 Using Job Definition File

This is the preferred and safest method to run kingfisher from the command line, this method ensures you set up the job correctly and you are sure of what it does.

If you create a Job in Kingfisher, an xml Job Definition file is automatically created in the "conditions" folder in the installation Directory.

Usage:

```
Kingfisher.Commandline.exe -jobfile "..\\conditions\\1001.xml"
```

9 AUTOBAHN DX INTEGRATION

Autobahn DX is another software provided by Aquaforest, it is a Document Processing product designed to fit into an organization's document workflow. It can process and convert a variety of different types of document including TIFF images, Microsoft Office documents and HTML pages, convert those documents to searchable PDFs and perform a variety of other customizable activities. For more information on Autobahn DX, check the product page by clicking the link below.

<https://www.aquaforest.com/en/autobahn.asp>

A Kingfisher Job can now be set up in Autobahn DX, for more details, see the blog post below.

10 KINGFISHER FILES AND DIRECTORIES

After installation, the following subdirectories are created in the Kingfisher install directory:

Directory	Contents
bin	Executables and Scripts.
docs	Reference Guide, Sample videos
conditions	Standard directory for XML Job definition files.
logfiles	Log files
regex	This folder contains files that can be used to store predefined regular expressions
license	License File.
samples	This folder contains sample files used in the sample jobs.
theme	This folder contains the file that keeps track of the current theme.
Status	Contains status file, for progress reports.

11 SUPPORT

Any problems running this application should give evident error messages, but if you are unable to resolve a problem please contact support@aquaforest.com

12 ACKNOWLEDGEMENTS

This product makes use of many Open Source components which are included in binary form. The appropriate acknowledgements and copyright notices are given below.

Name	Homepage
Cuneiform	n/a (Copyright (c) 1993-2008, Cognitive Technologies)
FreedImage.NET	Homepage
IKVM.NET	Homepage Sourceforge
Leptonica	Homepage
Libjpeg	Homepage
Libpng	Homepage
Libtiff	Homepage
PDFBox	Homepage
Zlib	Homepage
ZXing.NET	Homepage