

**Δquaforest**

# Kingfisher Release Notes



# Kingfisher Release Notes

Version 2.5  
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# 1 Version 2.5.2109.29

## 1.1 Upgrading

### 1.1.1 Upgrading from versions prior to 2.5

See section 5.1.

### 1.1.2 License Keys

Uses existing version 2.5 license keys.

## 1.2 Improvements/Bugfixes

Bugfix to barcode settings relating to bits per pixel setting.

# 2 Version 2.5.2109.21

## 2.1 Upgrading

### 2.1.1 Upgrading from versions prior to 2.5

See section 5.1.

### 2.1.2 License Keys

Uses existing version 2.5 license keys.

## 2.2 Improvements/Bugfixes

### 2.2.1 KF-124 Barcode reader returns phantom barcode values on some diagrams

Some documents containing diagrams with lots of parallel lines could be read as Code 128 Short barcodes.

Short Code 128 has been added as a selectable/unselectable barcode type so it can be unselected if required

### 2.2.2 KF-123 Barcode settings available in the UI

The two settings mentioned in release 2.5.2106.11 are now available in the Kingfisher UI.

[Job Definition](#) [Location Settings](#) [Select Variables](#) [Scheduler](#) [Alerts](#) [File Naming](#) [Advanced Settings](#) [Running Job](#)  
[Security](#) [Properties](#) [PDF Metadata](#) [OCR Settings](#) [Barcode Settings](#) [Other Settings](#)

Barcode renderer DPI  
300

Barcode color depth  
8 BPP

Option	Description
Barcode renderer DPI	Set the DPI used by the barcode engine to read the barcode.  With certain images, results can be improved by increasing the DPI above the nominal image DPI.
Barcode color depth	Set the color depth (bits per pixel) used by the barcode engine to read the barcode.  Though barcodes are traditionally in black and white, color images may include barcodes where the lines or background are in shades or are crossed by colored lines. Changing the color depth can improve results.

### 2.2.3 KF-121 Common.Log file incomplete with "default" Kingfisher.Config Logpath

The default Kingfisher.Config LogPath setting used a relative path, this could lead to log file information being mislaid if the "current folder" value changed during processing. This was a potential issue when the application was installed on drives other than C:.

This has been fixed.

## 2.2.4 KF-119 Identify missing SMTP settings when saving

List missing SMTP settings in error message.

# 3 Version 2.5.2106.11

## 3.1 Upgrading

### 3.1.1 Upgrading from versions prior to 2.5

See section 5.1.

### 3.1.2 License Keys

Uses existing version 2.5 license keys.

## 3.2 Bug fixes/Improvement

### 3.2.1 Barcode reading on color documents

The default settings for reading bar codes work for most cases. Color documents and certain other documents occasionally require the job condition file to be manually edited.

The following are suggested settings suitable for color documents with very fine bar codes

```
<barcodedpi>400</barcodedpi>
```

```
<pdftoimagebpp>8</pdftoimagebpp>
```

Make a copy of the job condition file before editing and only edit them while the Kingfisher UI is closed. Contact support for more information.

### 3.2.2 Issue with Anonymous SMTP email setup resolved.

SMTP tab now has option for Anonymous access.

Dashboard Job Settings Options Help & Support

Service Status : Running

License Email Theme Advanced

Change Email Settings

☒ On

SMTP OAuth2

SMTP Server

SMTP Port

Set for Basic SMTP

☒ On

User Name

Password



Save Settings



Test Email



Discard Changes

Set the Basic SMTP to off for Anonymous SMTP.

### 3.2.2.1 Anonymous SMTP with O365/Exchange Online.

If using Exchange On-Line the email sender and recipients must be on the same domain.

For O365/ Exchange Online see: <https://docs.microsoft.com/en-us/exchange/mail-flow-best-practices/how-to-set-up-a-multifunction-device-or-application-to-send-email-using-microsoft-365-or-office-365>



## 4 Version 2.5.210602

### 4.1 Upgrading

#### 4.1.1 Upgrading from versions prior to 2.5

See section 5.1.

#### 4.1.2 Upgrading from previous Kingfisher version 2.5.

Copy Kingfisher.Config (in <installation location>\bin) and Job Condition files.

Uninstall the existing version of Kingfisher and then install the new version.

#### 4.1.3 License Keys

Uses existing version 2.5 license keys.

### 4.2 Bug fixes

This version fixes a bug in the Split by Barcode and remove Barcode Page.

## 5 Version 2.5.2105.19

### 5.1 Upgrading to Version 2.5

#### 5.1.1 Requirements

Kingfisher now requires Microsoft .NET Framework 4.7.2 to be installed. This will be checked during the installation of Kingfisher.

Under some circumstances it may be required to manually install the .NET Framework 4.7.2.

#### 5.1.2 Email Settings

SMTP passwords will need to be re-entered. See section 2.3.2 of the Reference Guide.

#### 5.1.3 Preserving existing Condition files when upgrading

Condition files are upgraded automatically when the User Interface is started for the first time.

However, if you do not have a current backup of your conditions file, it is recommended to back up the Condition files before installing the new version of Kingfisher.

The condition files are located in the folder [installation folder]\Conditions.

#### 5.1.4 License Keys

Version 2.5 of Kingfisher requires a new license key.

This is a free upgrade for holders of a current Support and Maintenance Contract (included in the first year of a perpetual license and holders of a current Subscription License).

Please contact [support@aquaforest.com](mailto:support@aquaforest.com) for additional information.

#### 5.1.5 Upgrading

Kingfisher can be upgraded by uninstalling the existing version of Kingfisher and then installing the new version.



## 5.2 New Features

Kingfisher 2.5 uses the new Aquaforest SDK 3.

### 5.2.1 Updated OCR Engine

The new Aquaforest SDK 3 Standard OCR engine improves performance and accuracy.

See the SDK release notes for more information.

### 5.2.2 Updated PDF Toolkit

The Aquaforest SDK 3 PDF Toolkit includes a number of minor improvements.

The SDK release notes contains more information.

### 5.2.3 Updated Bar Code Engine

The Barcode Engine now has improved barcode recognition. Additional default settings are available in the Kingfisher.config file located in [installation folder]\bin.

Settings	Description
"BarcodeDPI"	PDF to Image conversion DPI setting
"PdfToImageBpp"	PDF to Image Bits per Pixel

Job Conditionfiles contain the values used for that specific job.

The following bar code types are no longer supported:

MAXICODE

AZTEC

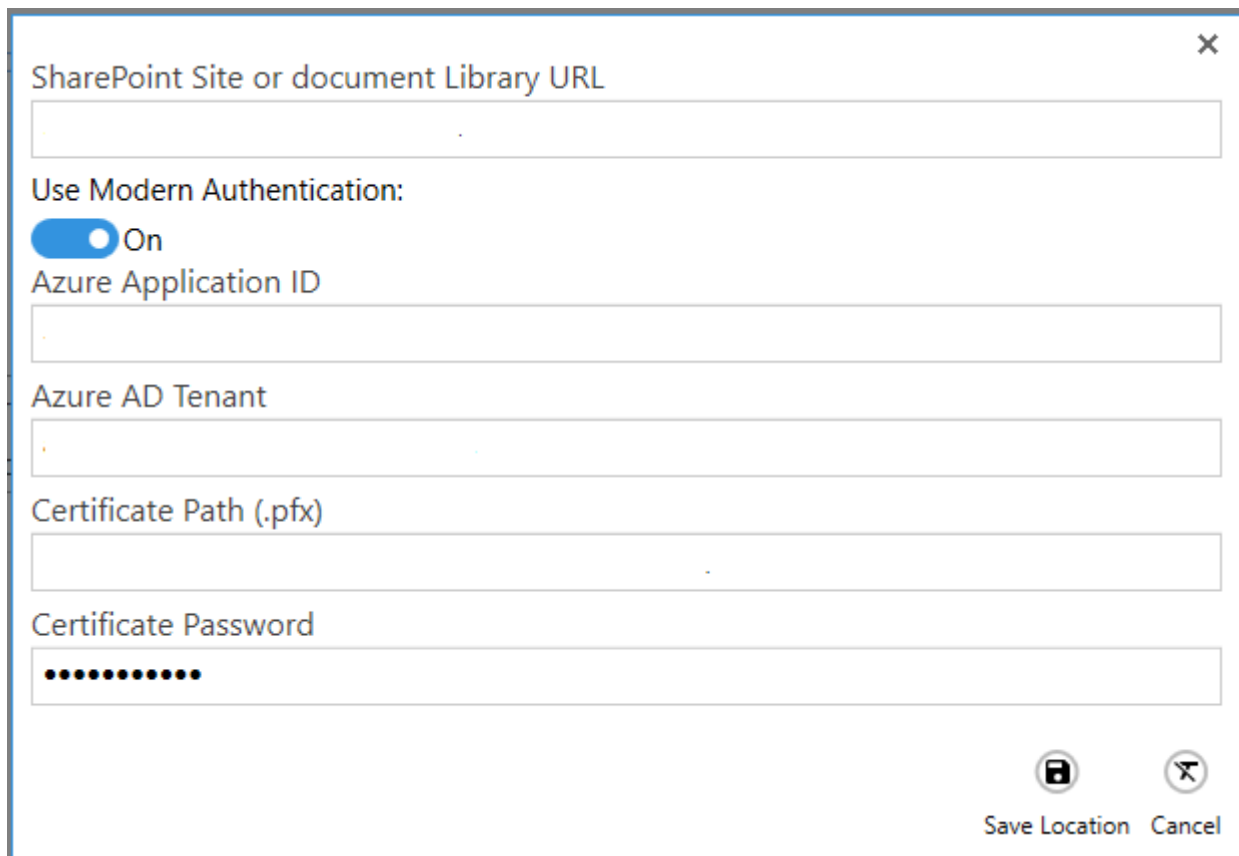
MSI

Plessey

See the reference guide for more information.

#### 5.2.4 Modern Authentication for SharePoint On-Line (Office365)

The Modern (or OAuth2) Authentication provides a more secure method to access resources such as SharePoint/Office365 and email. This release of Kingfisher has an option to use OAuth2 authentication.



The screenshot shows a configuration dialog box for Modern Authentication. It includes a close button (X) in the top right corner. The first field is 'SharePoint Site or document Library URL'. Below it is a section 'Use Modern Authentication:' with a toggle switch set to 'On'. This is followed by three text input fields: 'Azure Application ID', 'Azure AD Tenant', and 'Certificate Path (.pfx)'. The 'Certificate Password' field is a password input with masked characters. At the bottom right, there are two buttons: 'Save Location' (with a save icon) and 'Cancel' (with a close icon).

See <https://go.microsoft.com/fwlink/?linkid=2083908> or the Kingfisher Reference Guide for details on setting up Modern (OAuth2) Authentication and its usage.

### 5.2.5 Modern Authentication for Email (Office365)

Modern (or OAuth2) Authentication is provided as an option for email.

License Email Theme Advanced

Change SMTP Settings

☐ Off

SMTP OAuth2

OAuth2 Client

Azure ▼

Azure Client ID

OAuth2 Credential Type

ClientSecretOrPrivateKey ▼

Azure Tenant ID

Certificate file path

Azure AD Instance URL

Certificate Password

Azure Client Secret



Save Settings



Test Email



Discard Changes

Modern (OAuth2) Authentication for email can use either Client Secret or a Certificate.

See <https://go.microsoft.com/fwlink/?linkid=2083908> or the Kingfisher Reference Guide for details on setting up Modern (OAuth2) Authentication and its usage.

## 5.3 Minor improvements

### 5.3.1 KF-120: Choosing to not save changes to job condition should discard changes

Previous versions of Kingfisher did not discard changes when 'no' was selected in response to a Save Unsaved Changes dialogue. Selecting 'no' now discards changes and reloads the job condition from file.

### 5.3.2 KF-112: Extended the file naming templates available in Kingfisher

Additional file naming templates are available.

These include zero padded versions of %INDEX% (%INDEX2%, %INDEX3%, %INDEX4%, %INDEX5%, %INDEX6%) plus %YEAR% and %MONTH%.

See the Reference Guide section 2.2.6.1 for more details.

### 5.3.3 KF-109: Add a progress indicator while a job is running

Some job types did not display progress information, which made it difficult to determine if jobs (especially split jobs) involving large files were processing. Progress information is now written to the log.

### 5.3.4 KF-100: Add Office 365 Modern Authentication to Aquaforest Kingfisher

See 1.2.4

### 5.3.5 General log files path changed

General log files are now generated by default in the folder:

[Installation location]\logfiles\GeneralLogs

See section 8 (Kingfisher.Config) field LogPath for details

## 5.4 Bug Fixes

### 5.4.1 KF-116 Handle Log File display when selected job has not previously run.

A previous log file of another job was being displayed when either the selected job has not previously been run or the previous log files for that job have been deleted. This has been corrected.

### 5.4.2 KF-115 Display Current Service Status

If the Kingfisher Server is stopped via Services or another program, or suffers an internal fatal error, this is not reflected on the Kingfisher UI.

This caused the display of misleading error messages when the UI is used to start a job.

The Kingfisher Service Status is now updated as part of the UI update.

### 5.4.3 KF-114 Removed Language setting in Options

Kingfisher is available in US English only.

### 5.4.4 KF-113: Kingfisher command line does not work when Kingfisher is installed to another drive

When Kingfisher was installed on the non-default drive, command line calls fail to complete. This has been tested with this version and this issue has been resolved.

### 5.4.5 KF-111: Error Codes not returned during command line calls

Some error codes were not being returned to the command line. This has been fixed.

### 5.4.6 KF-110: Extract pages mislabelling documents

Under certain conditions pages extracted from large documents were not being named correctly. This has been fixed.

### 5.4.7 KF-108: PDF Rasterizer causing some PDFs not to display properly

This has been fixed.

### 5.4.8 KF-107: Barcode zonal detector does not work if zone extends off page

If a zone extends off the page, the barcode was not read. This was only an issue where the document contains both landscape and portrait pages.

A zone that extended the whole length of the portrait page would hang off the bottom of a landscape page, resulting in the zone being void.

The zone used on the page is now cropped to that page size.

### 5.4.9 KF-106: Kingfisher crashes when job is changed from one type to another (tested with rename to split)

The Kingfisher UI would crash if a job was changed from rename to split. This has been fixed.

### 5.4.10 KF-105: Kingfisher SP/O365 Paths are case sensitive

SharePoint and Office365 paths supplied as source or target location with different case to the actual path failed to upload. This has been fixed.

### 5.4.11 KF-101: Advanced Extract to Excel: Set overwrite existing to true when append to file is selected.

The overwrite file flag is now internally set true when append to file is selected (the overwrite file toggle switch is disabled). Append to file requires the overwrite permission.

## 6 Version 2.1.190627

### 6.1 New Features

#### 6.1.1 Updated OCR Engine

We have added our new OCR SDK to Kingfisher, this contains bug fixes and improvements.

### 6.2 Bug Fixes

#### 6.2.1 KF-91 Text in line after value was returning all the text in the zone

This bug has been fixed.

#### 6.2.2 KF-90 Code Encryption was causing some operations to fail

In some environments the following operations failed due to the code hiding algorithm in use:

- Using the **Next** button when creating new jobs in the wizard.
- Barcodes were not getting picked up in some environments.
- SharePoint Uploads and Downloads

This has been corrected.

## 7 Version 2.1.190607

### 7.1 New Features

#### 7.1.1 KF-85 Retain Bookmarks in split PDF files

Kingfisher now has the ability to retain bookmarks in the output of split PDF files

### 7.2 Bug Fixes

#### 7.2.1 KF-87 Kingfisher not considering new line (\r\n) as a word delimiter

When recognizing words in a PDF file, Kingfisher used a space to know it has arrived at the end of the word, but if the word appears at the end of the it will have new line characters (\r\n) instead of a space. Previous version did not take this into account.

#### 7.2.2 KF-86 Kingfisher not executing custom script until there is an output file

In the previous versions of kingfisher, we were not running the custom script if the job did not produce an output file, we have now changed it to run the script every time the job is executed.

#### 7.2.3 KF-79 Parsing Floats in a different culture

Kingfisher uses float numbers to define the coordinate or zones. When we parse these floats in some cultures the full stops are treated as commas, as a result 45.20 will become 4520. Due to this issue the user will get empty or random text values extracted. We are now using integers to represent zones in Kingfisher.

#### 7.2.4 KF-77 WCF opening too many session instances

The Kingfisher service was creating too many WCF instances and this was causing the service to hang. This has been fixed.

#### 7.2.5 KF-74 Incorrect Custom Script argument "OldFilePath"

The temp file location was being passed to the script instead of the original file path as the **OldFilePath** argument in Kingfisher.

#### 7.2.6 KF-72 When using "Text in Zone" Kingfisher sets all the text to lower case

#### 7.2.7 KF-71 When a Value is empty, Kingfisher places it with the next value

When using a **Split, Rename or Extract** Pages step, Kingfisher allows you to use 4 values to rename the output file. If there was not text extracted for one of the values, kingfisher will replace it with the next value: i.e. if **%VALUE2%** is empty, the value of **%VALUE3%** will go where if **%VALUE2%** was supposed to be and **%VALUE3%** will be replaced by an empty string.



## 8 Version 2.1.190412

### 8.1 Upgrading from earlier versions

#### 8.1.1 Requirements

This release requires both version 3.5 and version 4.6 of the .NET framework. The setup will check whether they are installed on your system and if not, will take you to the appropriate Microsoft site to download and install.

#### 8.1.2 Preserving Existing Job Definitions when Upgrading

Existing job definition and status files from earlier versions are not compatible with Version 2.1. Kingfisher will Upgrade these files when the GUI is opened for the first time.

The job definition files are in the “conditions” and “status” folders in the product installation folder. If the new release is installed in a different location (which by default was installed under “C:\Aquaforest\kingfisher\” these folders may be copied to the new location.

#### 8.1.3 License Keys

This version has the same license key as version 2.0.

If you have any questions about upgrading to version 2.1 please contact Aquaforest support:

[support@aquaforest.com](mailto:support@aquaforest.com)

## 8.2 New Features

### 8.2.1 SharePoint Integration

We have added the ability to use SharePoint and Office 365 document libraries as source and destination locations for kingfisher. As a result, we have added a new tab to the kingfisher Job settings as shown below. See section 2.2.2 of the reference guide for more details.

Job Definition **Location Settings** Select Variables Scheduler Alerts File Naming Advanced Settings Running Job

Select your Input and Output locations below

#### Source

Location Type

File System

☐ Single File ☒ Folder ☐ Tree

Source

J:\QA Folder\Kingfisher QA\Input\Advanced csv

#### Destination

Location Type

Same as Source

#### Apply Input Filters

\* Filter Locations by Regular Expression

Excluded Locations:

#### Metadata Settings

Retain PDF Metadata

Off

Retain SharePoint Metadata

Off

Log File

C:\Aquaforest\Kingfisher\logfiles\Job 10000\%TIMESTAMP%.txt

### 8.2.2 Filter Locations by Regular Expression

You can now specify patterns that input file must match before they can be processed in Kingfisher. See section 2.2.2 of the reference guide for more details.

### 8.2.3 Excluded Locations

You can now specify paths that will be skipped by Kingfisher. See section 2.2.2 of the reference guide for more details.

### 8.2.4 Skip-Row Header

We have added the option for the “Advanced Extract to Excel” step to skip the header row if you wish to output many files to the same XLS/CSV.

Advanced Export to CSV/XLSX ▼

Output File

.csv ▼

Append Data to Existing File

True ▼

Skip Header Row

☒ On

### 8.2.5 Extract Metadata to CSV

We have added the ability to extract Metadata from PDF Files as part of the “Advanced Export to CSV/XLSX”.



#### Column Settings

Column Header

Column 1

Selected Zone

18.47:142.06:83:80



Capture

☐ Barcode ☐ Text ☒ Metadata

Select Metadata

▼

date  
pdf:PDFVersion  
pdf:docinfo:title  
xmp:CreatorTool  
access\_permission:modify\_annotations  
access\_permission:can\_print\_degraded  
dc:creator  
dcterms:created  
Last-Modified  
dcterms:modified

Where

Copy Across Rows

?

Help

Please Enter Metadata.

▶

Run

## 8.3 Improvements

### 8.3.1 Data Matrix Barcodes

The former versions of Kingfisher struggled with recognizing Data Matrix bar codes, this has been improved in this version.

### 8.3.2 Warning Message is displayed if you try to open Kingfisher when it's already running

**Ref: KF-50**

## 8.4 Bug Fixes

### 8.4.1 Rename Step: Regular Expressions not being applied properly

**Ref: KF-70**

### 8.4.2 PDF to CSV/XLS – Table id numbering starting from zero

**Ref: KF-69**

Tables are automatically numbered from 0 to n, but the product asserts that the minimum table id should be 1, as a result, you get a validation error when you try to exclude a table with id zero.

In this version, the table id will start from 1.

### 8.4.3 PDF to CSV-XLS – Scrolling through the grouped tables crashes the GUI

**Ref: KF-68**

Scrolling through the grouped table list using the controls highlighted below causes the GUI to crash.

This has been fixed in this version.

Document View Table View

Tables Grouped Tables



Group ID : 1

Group ID : 2

GROUPING CRITERIA

EXCLUSION CRITERIA

Group Tables

#### 8.4.4 PDF to CSV/XLS: Remove the option to exclude tables/groups from the "Document View Tab" as it doesn't work

Ref: KF-67

#### 8.4.5 Export to PDF to CSV/XLS: Empty message when no tables are found

Ref: KF-64

Some conditions exist where kingfisher was not returning a message when it failed to detect any tables.

#### 8.4.6 Special characters in text expressions where not getting escaped.

Ref: KF-60

If a special character (. Or ") exist in an expression, it might produce an unpredictable output because kingfisher was not escaping the special characters.

#### 8.4.7 Kingfisher does not cope with rotated pages and multiple zones

Re: KF-58

#### 8.4.8 Split and Extract pages not labeling the output files accurately

## Ref: KF-55

This is caused by inaccurately ordering the split files before renaming it. In Kingfisher we perform the whole split in one operation, as a result, we:

- Split the files into integer named files e.g. 1,2,3,4,5,6,7,8,9,10,11,12,13,14.
- We rely on the ordering of the file to correctly match the extracted text to its file counterpart.
- When the temp is on a network location, the algorithm used picked up the file in the following order 1,10,11,12,13,14,2,3,4 instead of 1,2,3,4,5.

### 8.4.9 When processing UNC Path's on a Single File, we are incorrectly generating the output path

## Ref: KF-35

### 8.4.10 Split by Page Range & Repeating Page Ranges Step not showing some user controls

## Ref: KF-48

### 8.4.11 When using Split by Text Match, Split by Text Change & Extract Pages based on Text Match the OCR stops at page 10

## Ref: KF-48

### 8.4.12 Barcode values that have been matched are not used to determine the split condition

## Ref: KF-44

This is a bug, we are returning the barcode picked up from the page instead of the refined and matched barcode. As a result, we use the original barcode picked up to decide whether to split the page or not.