

Aquaforest TIFF Archive Reference Guide



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1 Product Overview

TIFF Archive is a tool that can convert large volumes of TIFF image files to PDF/A-1b compliant files. The product uses some of the same components used in Aquaforest's leading conversion tools Autobahn DX and Aquaforest Searchlight.

1.1 PDF/A

PDF/A-1b is a standard file format (ISO 19005-1) based on a subset of PDF which provides a mechanism for representing electronic documents in a manner that preserves their visual appearance over time, independent of the tools and systems used for creating, storing or rendering the files.

Further useful information is available in this document from the PDF Association :


http://www.pdfa.org/wp-content/uploads/2013/04/PDFA_in_a_Nutshell_21.pdf


1.2 Validating PDF/A Compliance


The most commonly used utility is the Preflight tool included with Adobe Acrobat Professional, although several stand-alone compliance checking tools are also available.

Example output from the Acrobat Preflight tool is shown below.

Preflight Summary Report for: a.pdf
Profile: Verify compliance with PDF/A-1b (Processed pages 1 to 1)
Processed by aquaforest, Date: 29/05/2013 09:53

 **Results (Summary)**
✓ No problems found

 **Document information**
File name: "a.pdf"
Path: "C:\qa"
PDF version number: "1.4"
File size (KB): 52.4
Producer: "PDF-XChange (xcpro35.dll v3.60.0123) (Windows)"
Trapping: "Unknown"
Number of plates: 1
Names of plates: "(Black) "

 **Environment**
Preflight, 11.0.0 (114)
Acrobat version: 11.02
Operating system: Microsoft Windows 7 Service Pack 1 (Build 7601)

2 Related Products

Whilst TIFF Archive is perfect for converting medium volumes of TIFF files to Image PDF/A files, for certain other cases (eg where the resulting PDFs need to be OCRed and made searchable) some of Aquaforest's other products may prove useful.



For Server-Based OCR and Conversion

Autobahn DX is a Document Processing product designed to fit into an organization's document workflow. It is able to process and convert a variety of different types of document including TIFF images, PDFs, Microsoft Office documents and HTML pages, convert those documents to searchable PDFs and perform a variety of other customizable activities.



For Auditing and Ensuring Searchability of documents in Microsoft Sharepoint and Windows File Systems

- Audit document stores to determine which documents require processing
- Document Stores are monitored to deal with new and updated documents.
- Dashboard provides a convenient summary of the state of all managed stores.
- Provides detailed conversion reporting.



For Embedding an OCR Engine in your own Applications

Aquaforest's OCR SDK for .Net enables developers to directly make use of the Aquaforest OCR engine in their own applications, perform detailed recognition and create searchable PDFs, RTF or text files from TIFFs, PDFs or bitmaps.



For Workstation-based OCR and Conversion

TIFF Junction includes a sophisticated OCR engine enabling conversion of TIFF images to searchable PDFs. The product also provides the ability to split and merge TIFF files (from single page to multi-page and vice versa) and creation of image-only PDFs from TIFFs.

3 Installation and Licensing

3.1 Installation

The product is installed via the install package that can be downloaded from the TIFF Archive product page on Aquaforest's web site : <http://aquaforest.com/en/tiff-archive.asp>

3.2 System Requirements

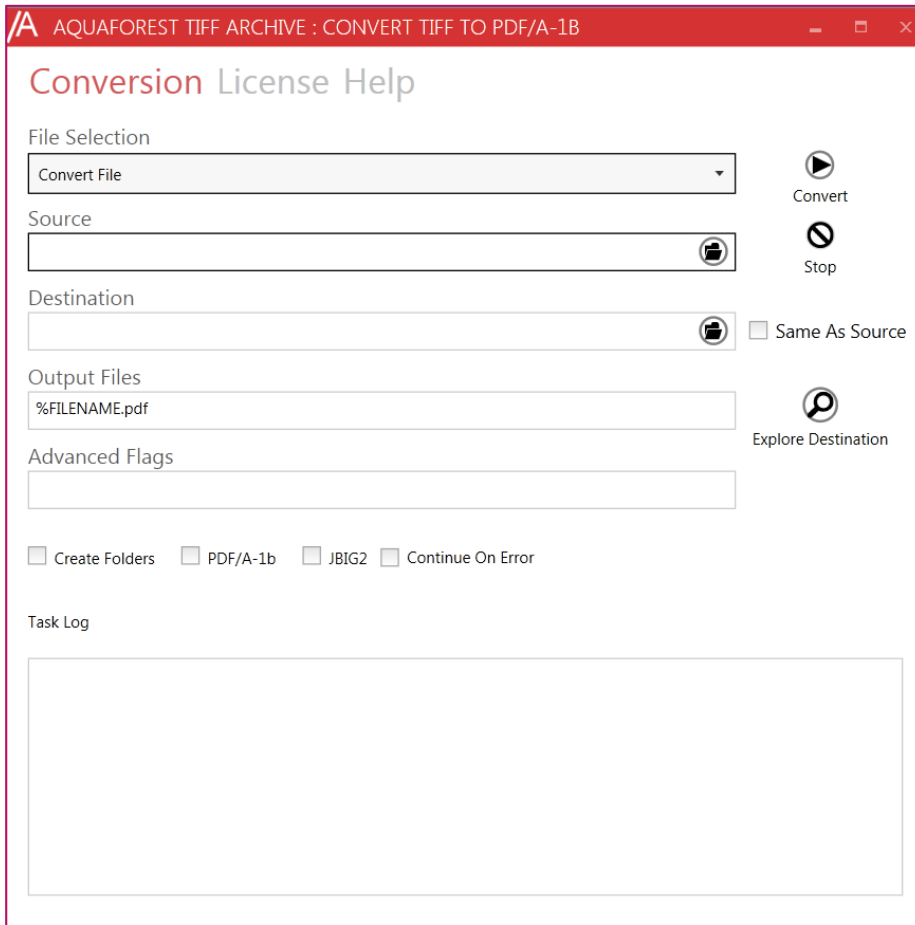
Supported Operating Systems	Windows 7 (32 bit 64 bit) Windows 8 (32bit 64bit) Windows 2008 (32bit 64bit) Windows 2012 (32bit 64bit)
Disk Space	200 MB
Memory	Minimum 2GB
.NET Framework	4.0 or Later

3.3 Licensing

3.3.1 Entering License Keys

License keys may be entered by using the "License" tab from the Aquaforest TIFF Aquaforest application.

4 TIFF Archive User Interface



Fields	Description
Convert	Choose from "Single File", "Folder" or "Folder Tree"
Source	Source File or File
Destination	Destination Folder
Output Files	This defines the template output file name and may include %FILENAME which evaluates to the source file name without any extension. Default : %FILENAME.pdf
Advanced	Allows additional command line flags to be passed to the underlying tiffarchive.exe process. In version 1.0 the only support advanced flag is -b which enables debug mode.
Create Folders	If checked, the application will create output folders as required.
PDF/A-1b	If checked the output PDF file will be made PDF/A-1b compliant.
JBIG2	If checked bitonal images will be compressed with JBIG2 compression.
Advanced	Additional flags may be entered here. At present the only supported flag is -b which enables debug output.
Task Log	Job progress output is displayed here.

5 TIFF Archive Command Line Interface

The command line interface can be used to process single files. The WSH interface described in section 5 can be used to process folders and trees.

Syntax :

```
tiffarchive.exe [optional flags] -o outputfiletemplate -t outputfolder inputfile
```

Example :

```
tiffarchive.exe" -d -j -a -o %FILENAME.pdf -t "C:\qaout\testfiles" "C:\qa\sample.tif"
```

Flag	Description
-t	Output Folder
-o	Output filename – may include %FILENAME which will be substituted with the base file name For example, if -o %FILENAME_pdfa.pdf is used with an input file name of xyz.tif then the output filename will be xyz_pdfa.pdf
-d	Create Output Folder if it does not already exist
-a	When used the output PDF file will be PDF/A-1b compliant
-j	Compression bitonal images with JBIG2 compression in the final PDF.

6 TIFF Archive WSH Interface

A Windows Script Host script (tiffarchive.wsf) is provided which can be used to process folders and folder trees as well as single files.

Syntax :

```
cscript tiffjunction.wsf [/verbose] "/target:targetfolder" "/joboptions:joboptions"  
/sourcetype:sourcetype sourcefileorfolder
```

Example of processing a single file

```
cscript tiffjunction.wsf /verbose "/target:C:\dev\ta1\testfiles" "/joboptions:-d -j -o  
%FILENAME.pdf" /sourcetype:file C:\dev\ta1\testfiles\sample.tif
```

Example of processing a folder tree

```
cscript tiffjunction.wsf /verbose "/target:C:\dev\ta1\testfiles" "/joboptions:-d -j -o  
%FILENAME.pdf" /sourcetype:tree C:\dev\ta1\testfiles
```

Switch	Description
/verbose	The command will output detailed process messages
/target:targetfolder	Targetfolder defines where the output file(s) will be placed
/sourcetype:sourcetype	sourcetype may be one of : file – to process a single file folder – to process a folder tree – to recursively process a folder tree
sourcefileorfolder	Defines the input file or folder
/joboptions:joboptions	This should be used to specify the any of the following flags; see section 4 for more information. -d -a -j -o

7 Acknowledgements

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

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This software is based in part on the work of the Independent JPEG Group.

ZLIB

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ITEX 4.1.6

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LIBTIFF

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