



Tiff Junction Reference Guide Version 1.10h

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1 INTRODUCTION

Tiff Junction provides the ability to split and merge TIFF files (from single page to multi-page and vice versa), and to convert TIFF files to PDF (Portable Document Format).

The product may be used as command line tool (for manual use or inclusion in scripts) - in addition, a windows interface and WSH scripts are provided that enable interfaces via drag and drop and context menus and provide a basis for using the product from other environments such as ASP.

2 SYSTEM REQUIREMENTS AND SUPPORTED FILE FORMATS

2.1 System Requirements

- Windows NT 4.0, Windows 2000, Windows XP.
- To use the WSH Scripts WSH 5.6 or later is recommended. This can be downloaded from <http://msdn.microsoft.com/scripting> if necessary.

2.2 Supported TIFF File Formats

- CCITT Group 3 (1-D), Group 3 (2-D)
- CCITT Group 4
- CCITT RLE
- JPEG (Type 6 Compression)
- Uncompressed (Bitonal)
- LZW compression is not supported due to Unisys licensing restrictions

3 INSTALLATION AND LICENSING

3.1 Installation

Once you have the source media, extract the installable executable from the supplied zip file. The installation script will guide you through the process of setting up TIFF Junction. As part of this process, when requested, enter the licence key that you have received by email.

3.2 Tiff Junction System Directories

Using the install wizard, the following subdirectories are created within this new root folder:

Directory	Contents
<i>tiffjunction</i> \bin	Tiff Junction Command Line Executable (tiffjunction.exe) Tiff Junction GUI Executable (tj.exe) Licence Key File (key.txt)
<i>tiffjunction</i> \docs	Reference Guide, Licence file
<i>tiffjunction</i> \wsh	WSH Scripts for drag & drop, context menu and directory processing.

3.3 Temporary Files

The product creates temporary files where necessary in converting from one TIFF format to another – sometimes necessary when generating PDFs to ensure that the TIFF format is compatible with that accepted by PDF.

These files (named TMP999.tif where 999 is the process ID) will be created in the current directory. They will be destroyed upon completion of the process.

3.4 Licencing

The software requires the user of a licence key file (key.txt in the aquatiff\bin directory). The licence file is used to determine whether the software has an expiry date (for trial versions) and which version of the software has been licenced (all versions). Note that when the product is used with a temporary license key, it watermarks generated PDF documents with “www.aquaforest.com”.

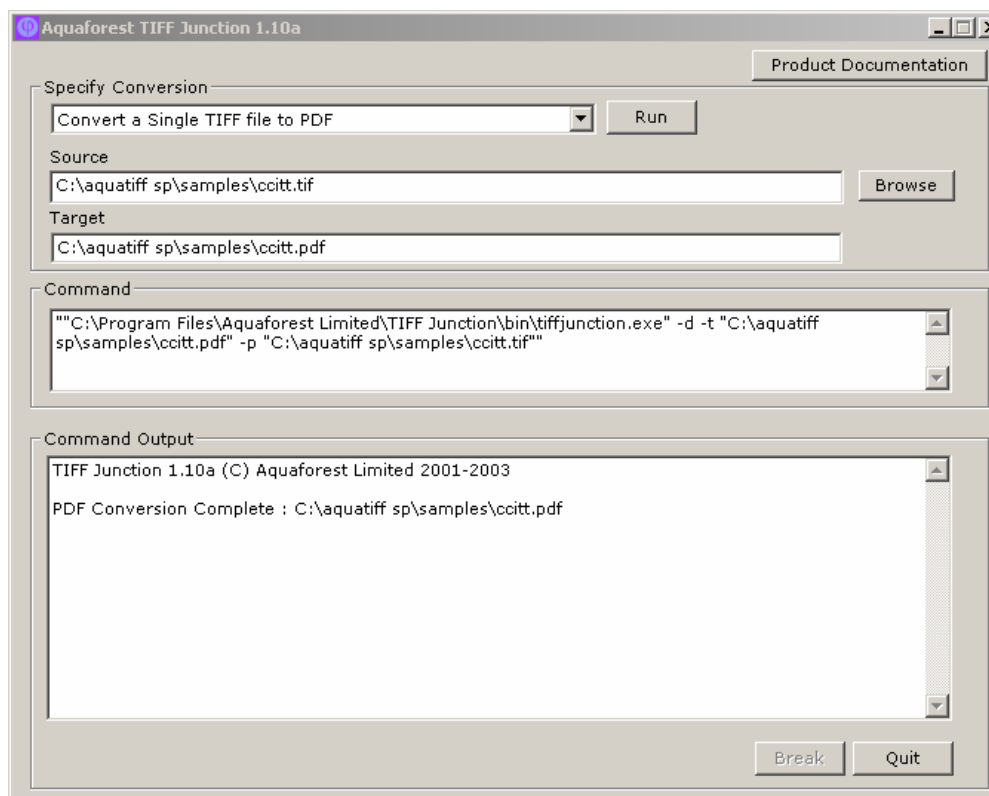
If the licence key is invalid, has expired, is missing or is for the wrong version, the product will not function.

To see information relating to the product version and licence file run `tiffjunction.exe -v` (see the section on using TIFF Junction from the command line, below).

4 USING THE TIFF JUNCTION WINDOWS INTERFACE

For convenience, TIFF Junction provides a windows front-end to the command-line tool. A sample screen is show below, along with key points

Field	Allowable Values / Description
Specify Conversion	Convert a Single TIFF File to PDF Merge a Directory of Files to a Single PDF Convert a Directory Tree of TIFF Files to PDF (1 TIFF file=1 PDF file) Split a multi-page TIFF file into one file per page Merge a Directory of Files to a Single PDF Provide Detailed Information about a TIFF File About TIFF Junction (Version & License Information)
Source	The source file or directory for the conversion.
Target	Target file specification. For a split operation this is a file prefix which will have added to it a lexically ordered suffix in the range [aa-zz] followed by .tif.
Command	This is the command-line TIFF Junction that will be run. It can be edited if required prior to running.
Command Output	TIFF Junction informational output.



5 USING TIFF JUNCTION FROM THE COMMAND LINE

The command line usage is shown below

```
tiffjunction.exe option [-t target] [input file ...]
```

Parameter	Notes
-m	Merge. The set of input files will be merged to form one new Tiff file with the name and location specified by the target parameter.
-s	Split. The input file will be split into <i>n</i> single page per file Tiff files where <i>n</i> is the number of pages in the input file. The resultant “split” files will be named using the target parameter as the prefix Eg d:\images\policy. For each file the prefix will have added to it a lexically ordered suffix in the range [aa-zz] followed by .tif.
-p	Convert one or more Tiff files into a pdf file with the name and location specified by the target parameter. If more than one input file is specified, the input file set is first merged into a temporary file and the merged file is converted to pdf.
-i	Provide internal Tiff format information about each page of each input file.
-v	Provide tiffjunction product version and licence key information.
-w	Display Tiff Warnings. This flag should be used when required to enable display of Tiff library warnings and messages.
-f	Force pass-through of image formats even when Tiff Junction would normally make a conversion to ensure PDF compatability.
-r <i>resolution</i>	Force the resolution (dpi) to be passed through as <i>resolution</i> instead of the figure held within the file.
-d	Force creation of any directories that may be required by the -t parameter.
-c	Force conversion of images to single strip CCITT Group 4 compression, even for images where Tiff Junction would not ordinarily make the conversion.
-t target	Target file specification.
-n	Stamp Name (See Section 9)
-x	Stamp Value (See Section 9)
input file	One or more input file specifications which may include wildcards. Input files are processed in the order that they appear on the command line.

5.1 Examples of Merging Tiff Files

Merge all the tiff files in d:\aquaforest\tiff\orbera into a file called ace3.tif in the current directory

```
tiffjunction.exe -m -t ace3.tif d:\aquaforest\tiff\orbera\*.tif
```

Merge all the tiff files with a name beginning with “s” in the current directory into a single file called ace2.tif in ..\test

```
tiffjunction.exe -m -t ..\test\ace2.tif s*
```

5.2 Example of Splitting Tiff Files

Create a set of single page per file Tiff files. One file will be created for each page in c:\test\1c00.tif. The output files will be placed in the d:\test directory and named splita.tif, splitb.tif etc.

```
tiffjunction.exe -s -t d:\test\split c:\test\1c00.tif
```

5.3 Examples of Converting Tiff Files to PDF

Convert d:\aquaforest\tiff\709245.tif to a PDF file called ace4.pdf in the current directory :

```
tiffjunction.exe -p -t ace4.pdf d:\aquaforest\tiff\709245.tif
```

Merge all the tiff files with a name beginning with “s” in the current directory into a single PDF file called ace9.pdf in ..\test

```
tiffjunction.exe -p -t ..\test\ace9.tif s*
```

6 CONVERTING A DIRECTORY TREE OF FILES FROM TIFF TO PDF

A WSH script is provided which can convert a directory tree of files from TIFF to PDF. The script (called tiffscript.js) is located in the tiffjunction\wsh directory.

The script may be invoked from the command line using either the windows host or the command line host according to your requirements.

```
wscript.exe tiff2pdf.js d:\tifffiles
```

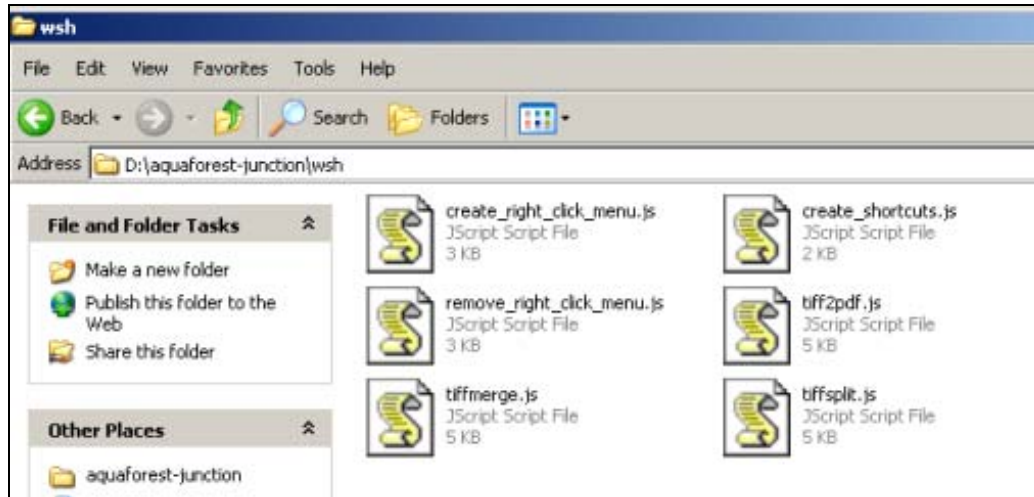
or

```
cscript.exe tiff2pdf.js d:\tifffiles
```

The script also has a **drag and drop interface** which allows users to drop a directory onto the script for processing. This is described in more detail in the next section.

7 USING THE DRAG AND DROP INTERFACES

The drag and drop interfaces can be used as an alternative to the command line interface for converting TIFF files to PDF, merging and splitting TIFF files. These require use of the WSH script and you are recommended to have WSH version 5.6 installed (see <http://msdn.microsoft.com/scripting> if necessary).



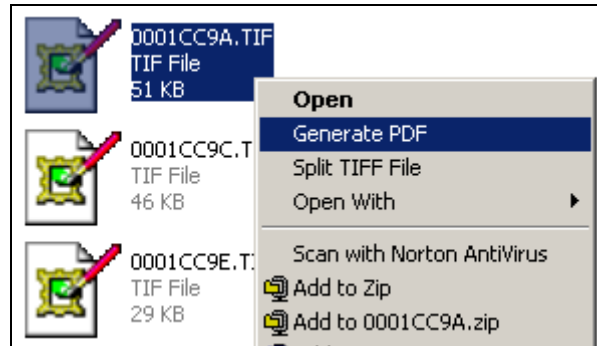
The script files are in the tiffjunction\wsh directory. You can automatically generate desktop shortcuts for these scripts by running create_shortcuts.js (either by double clicking on the file or by running the script at the command prompt with wscript or cscript)

The drag and drop functionality that is available is as follows :

Script	Drag & Drop File	Drag & Drop Multiple Files	Drag & Drop Directory
tiff2pdf	Generate PDF version in the same directory as the source TIFF file. The file will be named the same except it will have a .pdf extension.	Merge all and generate a single PDF file from the source TIFF files. The file will be named xxx_merge.pdf where xxx is the name of the first file passed in.	Generate a PDF file for each TIFF file in the directory (and all subdirectories).
tiffsplit	Split. The input file will be split into <i>n</i> single page per file Tiff files where <i>n</i> is the number of pages in the input file. The resultant "split" files will be named using the name of the input file a prefix. For each file the prefix will have added to it "_split_" and a lexically ordered suffix in the range [aa-zz] followed by .tif.	N/A	N/A
tiffmerge	N/A	Merge. The set of input files will be merged to form one new Tiff file with the name xxx_merge.tif where xxx is the name of the first file passed in.	N/A

8 USING THE CONTEXT MENU INTERFACES

TIFF Junction also enables use of context menus (when right clicking on a TIFF file in Windows Explorer) for Generating PDF files and Splitting TIFF files.



8.1 Setting Up

To set up the context menus, run the **create_right_click_menu.js** file in `tiffjunction\wsh` by double clicking on the file. If you need to uninstall the context menu configuration run the `remove_right_click_menu.js` file in `tiffjunction\wsh`.

8.2 Functionality

The functionality provided is as follows, when choosing each of the following options after right clicking on a TIFF file.

Generate PDF

Generate PDF version in the same directory as the source TIFF file. The file will be named the same except it will have a `.pdf` extension.

Split TIFF File

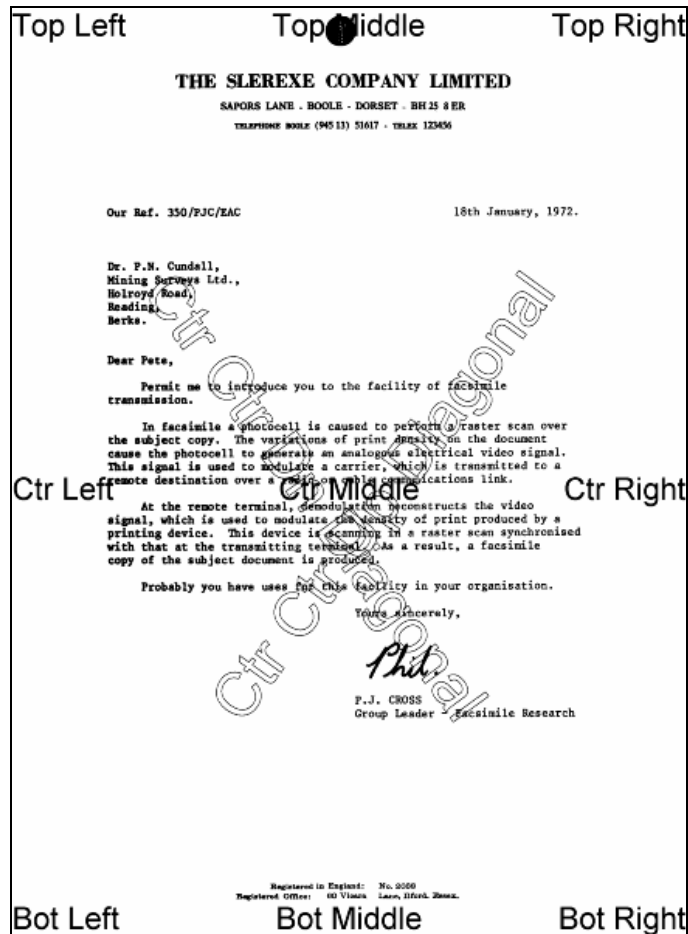
Split. The input file will be split into n single page per file Tiff files where n is the number of pages in the input file. The resultant “split” files will be named using the name of the input file a prefix. For each file the prefix will have added to it “_split_” and a lexically ordered suffix in the range [aa-zz] followed by `.tif`.

9 USING STAMPS

TIFF Junction allows dynamic and static textual stamps to be placed onto the PDF documents generated by the product by means of a stamps configuration file (stamps.txt in the bin directory) together with appropriate parameters.

To STOP stamps being generated, either delete or rename the stamps.txt file (by default in C:\Program Files\Aquaforest\TIFF Junction\bin) or edit the file to remove or rename any stamps that have afsName=STAMP (which tells TIFF Junction to always produce that stamp).

9.1 Stamp Placement



The image above indicates the possible placement for stamps. These are determined according to the parameters in the stamps.txt configuration file. The product comes with a sample set of stamps.

9.2 Stamp Specifications

For example, the stamp that reads “Ctr Ctr Up Diagonal” would be produced by the following lines in the file :

```
BEGINSTAMP
afsName=STAMP
afsText=Ctr Ctr Up Diagonal
afsFontSize=63
afsFont=HELVETICA
afsTextMode=1
afsVpos=CENTER
afsHpos=CENTER
afsDiag=UP
ENDSTAMP
```

Here is a description of each of the parameters *which are case sensitive* :

Parameter	Description
BEGINSTAMP	Required to mark the beginning of a stamp specification.
ENDSTAMP	Required to mark the end of a stamp specification.
afsName	Stamp name. If the stamp name is "STAMP" then the stamp will always be applied. Any other name is used as an identifier and the stamp will only be applied when the -n parameters match the name.
afsText	Stamp text. This may be a fixed piece of text, or may include %p (which will be replaced by the page number) or %s which will be replaced by the value of the -x parameter.
afsFontSize	Point size for the stamp text.
afsFont	Font to be used. The following are supported : TIMES-ROMAN HELVETICA COURIER
afsTextMode	1=Outlined Text 2=Sold Text
afsVpos	Vertical Position of the stamp, which may be one of the following : TOP CENTER BOTTOM
afsHpos	Horizontal Position of the stamp, which may be one of the following : LEFT CENTER RIGHT
afsDiag	Diagonal orientation of the stamp, which may be one of the following : NONE UP DOWN
afsWeight	Font Weight : 0 (default) – 5 (most bold)
afsStartPage	First page of the document to which stamps should be applied (default 1)
afsEndPage	Last page of the document to which stamps should be applied (default 0 which means there is not a limit)
afsPageIncrement	Determines whether stamps should only be applied every <i>n</i> th page where <i>n</i> is afsPageIncrement. Default is 0 which means stamps will be applied to all pages (subject to start/end page specifications).

9.3 Example of Using Stamps

Convert 709245.tif to a PDF file called 709245.pdf in the current directory using stamp PRODCODE with a value of "XR19 Rev1" :

```
tiffjunction.exe -p -n PRODCODE -x "XR19 Rev1" 709245.tif
```

10 PRODUCT VERSION HISTORY

10.1 Version 1.10

Reference	Change
110h01	Added support for stamps on generated PDF files
110a01	Added Windows Front-End to command line operations
110a02	Added Installshield install wrapper

10.2 Version 1.02

Reference	Change
102h01	Added WSH Scripts to enable support of drag & drop, context menu and directory processing.
102f01	Added the flag : -d (create target directory if none exists)
102e01	Added the flag: -r (force resolution dpi)
102c01	Changed location of temporary files, for CGI use. Files will be placed in \$TMP if defined otherwise \$TMPDIR, or finally in tiffjunction\bin.
10201	Added the flag : -w (Display Tiff Warnings). This flag should be used when required to enable display of Tiff library warnings and messages.
10202	Added the flag : -f (Force Pass-Through). This can be used to avoid image conversion even when the product would ordinarily convert the image.
10203	Added the flag : -c (Force Conversion). Force conversion to single strip Group 4 TIFF, even when not strictly required.
10204	Corrected a conversion problem where the product wasn't adjusting the image height and width correctly when the ppi varied from the default of 200 ppi.
10205	The product now gives appropriate messages when trying to process images with unsupported compression types such as LZW

10.3 Version 1.01

Reference	Change
101	First Public Release

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