



File Conversion Package

Readme

Version 1.0

6/8/2021

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1. Introduction

This document contains all essential information for the user to make full use of this Automation 360 Package. It includes a description of the functions and capabilities and step-by-step procedures for setup & configuration of the Package.

1.1 Overview

Files can be provided to bots in any number of ways – through email attachments, through directory scans, through manipulating files local to a machine, or through downloading files from a web application. At times, there is a need for those files to be in a different format as they are updated, emailed, or archived. In support of that, the File Conversion package enables bot builders to quickly and easily convert files from one file format to another to simplify the process of making file adjustments.

1.2 Use cases

The File Conversion package from Automation Anywhere can be used by bot builders to convert files from one format to another for the purposes of:

- Emailing files to customers in a non-editable format for the purposes of a professional looking output (Microsoft Word to PDF Conversion)
- Converting large, color images to their grayscale alternatives as color images can often be 10x the size of a grayscale image. (Image to Image conversion)
- Saving out presentations to be shared with customers or partners (Microsoft Powerpoint to PDF)
- Converting a file to make modifications more easily (CSV to Microsoft Excel)
- Breaking up multipage files into single page files for processing in document recognition or storage solutions (PDF to Image, Image to Image)

2. Requirements & Prerequisites

2.1 System Requirements

[Automation 360 and Community Edition device requirements.](#)

Review the machine hardware specifications, operating system versions, and browser types supported by Automation Anywhere Automation 360 for creating and running bots and command packages as an Automation 360 or Community Edition user on your local machine.

A Microsoft Word installation is required for the word to PDF Conversion. Should you choose not to use that action, Word would not be required.

2.2 Prerequisites

Automation 360

Automation 360 Bot Runner

3. Getting Started

3.1 Quick Start

3.1.1 Setup

1. Install the package from Bot Store into your Control Room
2. Validate/Enable the package named **File Conversion** has been installed and set as default.
 - a. It should install/enable itself upon install of the Bot Store package, but just triple check to be sure.

3.1.2 Configuration and Use

There are 11 actions that make up this package:

1. **CSVtoXLSX:** The CSV to XLSX conversion will take a file of comma separated values and convert them to an XLSX file.
 - a. **Input File:** CSV file
 - b. **Output File Path:** Optional output directory to save the file to. Just provide what is the to-be folder, the file name is set automatically based on the original input file.
 - c. **Full Path of File Output:** Upon successful conversion, this value will be set to the full output path of the converted file.
2. **DOCXtoPDF:** The DOCX to PDF conversion will take a Microsoft Word doc and convert it to an Adobe PDF file.
 - a. **Input File:** DOCX file
 - b. **Output File Path:** Optional output directory to save the file to. Just provide what is the to-be folder, the file name is set automatically based on the original input file.
 - c. **Full Path of File Output:** Upon successful conversion, this value will be set to the full output path of the converted file.
3. **ImagetolImage:** The Image to Image conversion will take an Image file (jpeg, jpg, gif, png, tiff) and convert it to another image file format (jpeg, jpg, gif, png, tiff). Note: tiff files are unique in the image file formats listed – as tiff files support mutli-pages. The output of a multi-page tiff file will be single page images regardless of the selected output file format – as-in multi-page tiff can be converted to single-page tiffs.
 - a. **Input File:** jpeg, jpg, gif, png, tiff
 - b. **Target Color Format:** Color, Grayscale or Binary. This is primarily for converting color files to other color formats – color would not be added to a file that was originally grayscale or binary.
 - c. **Output File Path:** Optional output directory to save the file to. Just provide what is the to-be folder, the file name is set automatically based on the original input file.

- d. **Full Path of File Output:** Upon successful conversion, this value will be set to the full output path of the converted file.
4. **ImagetoPDF:** The Image to PDF conversion will take an Image file and convert it to an Adobe PDF file format – maintaining the original bit depth (color) of the source image.
 - a. **Input File:** jpeg, jpg, gif, png, tiff
 - b. **Output File Path:** Optional output directory to save the file to. Just provide what is the to-be folder, the file name is set automatically based on the original input file.
 - c. **Full Path of File Output:** Upon successful conversion, this value will be set to the full output path of the converted file.
5. **PDFtoDOCX:** The PDF to DOCX conversion will take a PDF file and convert it to a Microsoft Word document file format.
 - a. **Input File:** pdf
 - b. **Output File Path:** Optional output directory to save the file to. Just provide what is the to-be folder, the file name is set automatically based on the original input file.
 - c. **Full Path of File Output:** Upon successful conversion, this value will be set to the full output path of the converted file.
6. **PDFtoHTML:** The PDF to HTML conversion will take a PDF file and convert it to an HTML file format – in one of 2 ways. One option is that it will attempt to convert via pure CSS + base64 based images, the other method is a more traditional HTML conversion where areas recognized as Images are stored in a dedicated Images directory.
 - a. **Input File:** pdf
 - b. **Output File Path:** Optional output directory to save the file to. Just provide what is the to-be folder, the file name is set automatically based on the original input file.
 - c. **HTML Conversion Format:**
 - i. **Method 1 – Pure HTML:** In this conversion approach, the package will attempt to maintain the original structure/format of the PDF while converting the file to HTML and performing a base64 encoding of all images so that the HTML output can stand alone as a single file.
 - ii. **Method 2 – HTML + Images:** In this conversion approach, a more traditional html + images directory outcome will be the result. The package will attempt to identify what is an image vs what is text during conversion.
 - iii. **Note:** Like many of the other conversions available in this package – your input matters quite a bit. If you have an image based PDF, don't expect that you will have fully searchable text in the output HTML as this is not performing any optical character recognition so much as trying to take PDF's which have image + text and break them down accordingly.
 - d. **Full Path of File Output:** Upon successful conversion, this value will be set to the full output path of the converted file.
7. **PDFtoImage:** The PDF to Image conversion will take a PDF file and convert it to an image file format – with customizable options for the bit depth (color) and file format of the resulting image.
 - a. **Input File:** pdf

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- b. **Output Image File Format Type:** Available output file formats include jpeg, jpg, gif, png, and tiff.
 - c. **Target Color Format:** Color images can be 10x's the size of their black and white counterparts. As such, bot builders have the ability to select Color, Grayscale, or Black and White bit depths.
 - i. **Note:** Select the bit depth (color) based on your goals for the image and with a knowledge of the content of the original documents. Selecting "color" for a document that is pure text will make the file unnecessarily larger than it needs to be while selecting black and white for PDF with a series of low contrast/dark photos will result in images that have limited use. Grayscale or Black and White may work best for text based forms/documents while Color may be best suited for conversions of things like presentations or hand outs.
 - d. **Output File Path:** Optional output directory to save the file to. Just provide what is the to-be folder, the file name is set automatically based on the original input file.
 - e. **Full Path of File Output:** Upon successful conversion, this value will be a list of the locations for the output image(s).
8. **PDFtoPPTX:** The PDF to PPTX conversion will take a PDF file and convert it to a Microsoft PowerPoint PPTX file format – maintaining the full size/dimensions of the PDF within PPTX slides
- a. **Input File:** pdf
 - b. **Output File Path:** Optional output directory to save the file to. Just provide what is the to-be folder, the file name is set automatically based on the original input file.
 - c. **Full Path of File Output:** Upon successful conversion, this value will be set to the full output path of the converted file.
9. **PPTXtoImage:** The PPTX to Image conversion will take a Microsoft PowerPoint PPTX file and convert it to an Image file format – maintaining the original bit depth (color) of the source PPTX.
- a. **Input File:** pptx
 - b. **Output Image File Format Type:** Available output file formats include jpeg, jpg, gif, png, and tiff.
 - c. **Output File Path:** Optional output directory to save the file to. Just provide what is the to-be folder, the file name is set automatically based on the original input file.
 - d. **Full Path of File Output:** Upon successful conversion, this value will be a list of the locations for the output image(s).
10. **PPTXtoPDF:** The PPTX to PDF conversion will take a Microsoft PowerPoint PPTX file and convert it to an Adobe PDF file format – maintaining the original bit depth (color) of the source image.
- a. **Input File:** pptx
 - b. **Output Image File Format Type:** Available output file formats include jpeg, jpg, gif, png, and tiff.
 - c. **Output File Path:** Optional output directory to save the file to. Just provide what is the to-be folder, the file name is set automatically based on the original input file.
 - d. **Full Path of File Output:** Upon successful conversion, this value will be set to the full output path of the converted file.

11. XLSXtoCSV: The XLSX to CSV conversion will take a Microsoft Excel XLSX file and convert it to a comma separated values (CSV) file format.

- a. **Input File:** xlsx
- b. **Output File Path:** Optional output directory to save the file to. Just provide what is the to-be folder, the file name is set automatically based on the original input file.
- c. **Full Path of File Output:** Upon successful conversion, this value will be set to the full output path of the converted file.
- d. **Note:** As written, the package will only convert the first sheet of an XLSX file to CSV, not all sheets of the XLSX.

4. Support & FAQs

4.1 Support

Free bots are not officially supported through Automation Anywhere. You can get access to Community Support through the following channels:

- You can get access to Community Support, connecting with other Automation Anywhere customers and developers on [APeople](#) – the [Bot Building Forum](#), the [Bot Store Support Forum](#), or the [Developers Everywhere Group](#).
- Automation Anywhere also provides a [Product Documentation portal](#) which can be accessed for more information about our products and guidance on [Automation 360](#).
- Additionally, the source code for most Automation Anywhere free bots is [included on our GitHub page](#).

4.2 FAQs

For questions relating to Automation 360: See the [Automation 360 FAQs](#).

Appendix A: Record of Changes

No.	Version Number	Date of Change	Author	Notes
1.0	1.0	<i>06/07/2021</i>	<i>Micah Smith</i>	<i>Initial File Conversion Package Release</i>
1.1	1.1	<i>7/20/2021</i>	<i>Micah Smith</i>	<i>Updated documentation for two of the export to Image actions to reflect their update to exporting a list instead of a string</i>

Appendix B: References

No.	Topic	Reference Link
1	Overview of Automation 360	Click here
2	Guidance: Building basic Automation 360 bots	Click here
3	Guidance: Building Automation 360 packages	Click here
4	APeople Community Forum	Click here
5	Automation Anywhere University	Click here