File IO Utilities Package

Readme

Version 1.0

10/1/2023

Table of Contents

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

This package offers a comprehensive collection of 11 convenient custom actions, each specifically tailored to simplify the process of manipulating files and folders. These actions have been developed to cater to a wide range of needs and scenarios, drawing from my extensive experience accumulated during my years as a consultant.

1.2   Use cases

The File IO Utilities package can be used by automation developers to resolve complex file management needs using minimal coding Use cases include:

- Extracting properties of files
- Searching for files
- Creating missing folders
- Purging files of a certain age from a folder
- Creating Unique IDs
- Stamping files and folders with unique IDs

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 Enterprise for creating and running bots and command packages as an Automation 360 or Community Edition user on your local machine.

2.2 Prerequisites

Automation 360

Windows 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 IO Utilities** 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.

Selected package details			
Name IO-Utilities	**Description** Providing file and folder utility actions extendin...	**Version** 2.9.0-20231020-083333	**Status** Default
Vendor Adaptive Innovations	**Recommended bot agent version** 20.11 or above	**Recommended Control Room version** 8750 or above	

Actions

Actions (11)

> Σ File Count

> File Properties

> File Property

> Find files

> Stamp a file

> File tree

> Find In File

> Folder Exists

> Folder Purge

> Stamp a Folder

> Unique ID

3.1.2   Configuration and Use

There are sixteen actions that makes up this package:

1. **File Count**: Counts the files in a given folder.

    a. **Root Folder:** The folder in which files will be counted

    b. **Returns**: Returns a numeric value representing the number of files in folder.

2. **File Properties**: This action extracts all the properties of the selected file and places them in a dictionary.

    a. **File Name:** the date time that user would like to extract parts from

    b. **Returns**: Returns numerical and string values representing all properties if the selected file. Key values belong to the following list
        -   CreateDate
        -   LastModifiedDate
        -   LastAccessedDate
        -   FileExists
        -   FilePath
        -   FileNameOnly
        -   Filename
        -   Extension
        -   FileSize
        -   FullPath

3. **File Property**: This action extracts a single property of the selected file and returns them in a string value.

   a. **File Name:** the date time that user would like to extract parts from

   b. **File Property:** Selected property of the file to extract.
      - Create Date
      - Last Modified Date
      - Last Accessed Date
      - File Exists
      - Get only the File Path
      - Get FileName Only
      - Get Filename and extension
      - Get only Extension
      - Get File size
      - Get Full Path

   c. **Returns**: Return a string value representing the selected property

4. **Find Files**: This action finds all the files in a specific folder that match the criteria requested..

   a. **Search Folder:** Folder in which action will search

   b. **Search Criteria:** string to search for, action will return all files that contain this string

   c. **Returns**: Returns a list (any) representing the path to all the files found that match the selection criteria.

5. **Stamp a File**: this action takes an existing file name and inserts the selected stamp at the requested position.

   a. **File Name:** The name of the file that needs to be stamped

   b. **Stamp Location:** Location Selection can include BEFORE or AFTER file name.

   c. **Use Custom Stamp:** check box determining type of stamp to use.
      - If not checked the action will use a default timestamp to stamp the file (YYYYMMDD_HHMMSS).
      - If checked the text placed in the **Custom Stamp** field will be used to stamp the file.

   d. **Returns**: Returns a string value representing the name of the stamped file

6. **File Tree**: This action will navigate the root folder and all subfolders and place the names of all files found in a list variable.

   a. **Root Folder:** Folder in which to start scan

   b. **Returns**: Returns a list (any) representing all the files found.

7. **Find in File**: this action will search any file of type text for the specified search criteria and return true if found.

   a. **File Name:** The name of the file that needs to be searched.

   b. **Text to be Searched for:** Text that will be searched for in the source file

   c. **Returns**: Returns a boolean value representing search results (True, Text was found or False it was not)

8. **Folder Exists**: This action will determine the existence of the specified folder and create it if the folder does not exist.

   a. **Folder path:** Path that needs to be validated and/or created.

   b. **Returns**: Returns a boolean representing the success of the operation.

9. **Folder Purge**: This action will purge old files from the specified folder once they reach the configured age.

   a. **Folder path:** Path that needs to be purged

   b. **Age of Files to Purge:** Number representing the maximum age of a file before it is purged.

   c. **Unit of Measure of Age:** Unit of measure used to define the number representing the items age, values can be.
      - Purge files older than (Age) days old.
      - Purge files older than (Age) months old.
      - Purge files older than (Age) years old.

   d. **Returns**: Returns a boolean representing the success of the operation.

10. **Stamp a Folder**: this action takes an existing folder name and inserts the selected stamp at the requested position.

   a. **Folder Name:** The name of the folder that needs to be stamped

   b. **Stamp Location:** Location Selection can include BEFORE or AFTER file name.

   c. **Use Custom Stamp:** check box determining type of stamp to use.
   - If not checked the action will use a default timestamp to stamp the file (YYYYMMDD_HHMMSS).
   - If checked the text placed in the **Custom Stamp** field will be used to stamp the file.

   d. **Returns**: Returns a string value representing the new name of the folder

11. **Unique ID**: this action will return one of three different types of unique IDs .

   a. **Type of Unique ID:** Type of unique identifier requested. These can be

   - GUID

   - GUID (No Dashes)

   - Date Time Stamp YYYYMMDD_HHMMSS

   b. **Returns**: Returns a string value representing the unique identifier

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 our Pathfinder Community
- Automation Anywhere also provides a Product Documentation portal which can be accessed for more information about our products and guidance on The Automation Success Platform.
- 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 Anywhere FAQs.

Appendix A: 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	Pathfinder Community Forum	Click here
5	Automation Anywhere University	Click here