



File Manipulator

The text 'File Manipulator' is in a large, black, sans-serif font. To its right is a 3D-style icon of a yellow folder with a red arrow pointing into it, and a white document icon partially visible inside the folder.

Functions Guide

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I. Introduction

Description

The File Manipulator plug-in offers functions that support manipulating files via a FileMaker Pro interface. The basic operation of the plug-ins is to offer the FileMaker user the ability to move, rename, copy or delete files and folders. The plug-in also offers access to file and folder metadata such as a file's creation date or a folder's last modification date. These operations are accomplished using FileMaker function calls from within FileMaker calculations. These calculations are generally determined from within FileMaker "SetField" or "If" script steps. This document describes the plug-in functions.

Intended Audience

FileMaker developers or persons, who have knowledge of FileMaker scripting, calculations and relationships as proper use of the plug-in requires that FileMaker integration scripts be created in your FileMaker solution.

Successful Integration Practices:

- 1) Read the Developer's Guide
- 2) Read the Functions Guides
- 3) Look at our FileMaker Demo

Technical Note

All functions return a text string. It is up to the end user to convert this returned value when necessary. If an error occurs the function returns a representation of a negative number as a character string. This may help with capturing errors within your scripts.

For the following function definitions a file or folder path is formatted as follows:

Mac - Paths take the form of MountedVolume/path. Paths can also be user- relative (e.g., ~/Desktop)

Windows – Paths take the form of DriveLetter:\path (e.g. C:\Program Files) or [\\ServerName\path](#)

II. Function Descriptions

1) File Actions

The following functions act on files. Using these functions you can move, copy, rename, and delete files.

PCFM FileCopy(SourcePath; DestinationPath; optFlag ; optDestFileName)

Description:

Copies a file from Source Path to Destination Path

Parameters:

SourcePath	Full path to source file*
DestinationPath	Full path to destination folder*
optFlag	'Y' = overwrite file if exists or 'N' (default) = do not overwrite file
optDestFileName	Optional name for the files after it is copied

Returns:

0	Success
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Missing source path parameter
-4	Missing destination path parameter
-5	Source path not found
-6	Destination path not found
-7	Source path is not a file
-8	Destination path is not a folder
-9	File already exists
-10	Unable to copy file

PCFM FileDelete(SourcePath)

Description:

Deletes a file

Parameters:

SourcePath	Full path to source file
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Returns:

0	Success or file already deleted
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Missing source path parameter
-4	Source path is not a file
-5	Unable to delete file

PCFM FileMove(SourcePath; DestinationPath; optFlag ;optDestFileName)

Description:

Moves a file from Source Path to Destination Path

Parameters:

SourcePath	Full path to source file
DestinationPath	Full path to destination folder
optFlag	'Y' = overwrite file if exists or 'N' (default) = do not overwrite file
optDestFileName	Optional name for the files after it is copied

Returns:

0	Success
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Missing source path parameter
-4	Missing destination path parameter
-5	Source path not found
-6	Destination path not found
-7	Source path is not a file
-8	Destination path is not a folder
-9	File already exists
-10	Unable to move file

PCFM FileRename(SourcePath; DestinationFile)

Description:

Renames a file in Source Path to Destination file name

Parameters:

SourcePath	Full path to source file
DestinationFile	New file name

Returns:

0	Success
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Missing source path parameter
-4	Missing destination file name parameter
-5	Source path not found
-6	Destination file name is invalid
-7	Source path is not a file
-8	File already exists
-9	Unable to rename file

2) File Info

The following functions offer access to a file's meta data such as size and creation date.

PCFM GetFileSize(SourcePath)

Description:

Gets the file size in bytes

Parameters:

SourcePath Full path to source file

Returns:

> 0	Success
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Missing SourcePath parameter
-4	SourcePath not found
-5	SourcePath is not a file
-6	Unable to determine file size

PCFM GetFileCreationDate(SourcePath)

Description:

Gets the file's creation date

Parameters:

SourcePath Full path to source file

Returns:

<datetime>	Success
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Missing SourcePath parameter
-4	SourcePath not found
-5	SourcePath is not a file
-6	Unable to determine file creation date

PCFM_GetFileModificationDate (SourcePath)

Description:

Gets the file's modification date

Parameters:

SourcePath Full path to source file

Returns:

<datetime>	Success
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Missing SourcePath parameter
-4	SourcePath not found
-5	SourcePath is not a file
-6	Unable to determine file modified date

PCFM_GetFileAccessDate(SourcePath)

Description:

Gets the file's access date

Parameters:

SourcePath Full path to source file

Returns:

<datetime>	Success
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Missing SourcePath parameter
-4	SourcePath not found
-5	SourcePath is not a file
-6	Unable to determine file accessed date

PCFM_GetFileExists(SourcePath)

Description:

Determines if a file exists or not

Parameters:

SourcePath Full path to source file

Returns:

1	File doesn't exist
0	Success (file exists)
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Missing SourcePath parameter
-4	SourcePath is not a file

PCFM_GetFileMakerPath

Description:

Get the path to the FileMaker Pro application

Parameters:

none

Returns:

Fullpath	Success
-1	Plug-in expired
-2	Incorrect number of parameters

3) Folder Actions

The following functions allow the user to move, copy, rename, create and delete folders.

PCFM FolderCreate(SourcePath)

Description:

Creates the folder or path specified

Parameters:

SourcePath Full path to source folder

Returns:

0	Success
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Missing SourcePath parameter
-4	SourcePath already exists
-5	Unable to create folder

PCFM FolderCopy(SourcePath; DestinationPath)

Description:

Copies the specified folder and its contents to path specified.

Parameters:

SourcePath Full path to source folder
DestinationPath Full path to destination folder

Returns:

0	Success
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Missing source path parameter
-4	Missing destination path parameter
-5	Source path not found
-6	Destination path not found
-7	Source path is not a folder
-8	Destination path is not a folder
-9	Folder already exists
-10	Unable to copy folder

PCFM FolderMove(SourcePath; DestinationPath)

Description:

Moves the specified folder and its contents to path specified

Parameters:

SourcePath Full path to source folder
DestinationPath Full path to destination folder

Returns:

0 Success
-1 Plug-in expired
-2 Incorrect number of parameters
-3 Missing source path parameter
-4 Missing destination path parameter
-5 Source path not found
-6 Destination path not found
-7 Source path is not a folder
-8 Destination path is not a folder
-9 Folder already exists
-10 Unable to move folder

PCFM FolderRename(SourcePath; DestinationName)

Description:

Renames a folder at SourcePath to DestinationName

Parameters:

SourcePath Full path to source folder
DestinationName New folder name

Returns:

0 Success
-1 Plug-in expired
-2 Incorrect number of parameters
-3 Missing source path parameter
-4 Missing destination path parameter
-5 Source path not found
-6 Destination folder name is invalid
-7 Source path is not a folder
-8 Folder already exists
-9 Unable to rename folder

PCFM FolderDelete(SourcePath)

Description:

Deletes a folder and contents

Parameters:

SourcePath Full path to source folder

Returns:

0	Success or folder already deleted
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Missing source path parameter
-4	SourcePath is not a folder
-5	Unable to delete folder

4) Folder Info

The following functions offer access to a folder's metadata such as modified date and number of subfolders.

PCFM GetFolderSize(SourcePath)

Description:

Determines the size of the folder and its contents in bytes

Parameters:

SourcePath Full path to source folder

Returns:

<size>	Success
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Missing source path parameter
-4	SourcePath does not exist
-5	SourcePath is not a folder
-6	Unable to determine folder size

PCFM GetFolderCreationDate(SourcePath)

Description:

Gets the folder's creation date

Parameters:

SourcePath Full path to source folder

Returns:

<datetime>	Success
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Missing SourcePath parameter
-4	SourcePath does not exist
-5	SourcePath is not a folder
-6	Unable to determine folder creation date

PCFM GetFolderModificationDate(SourcePath)

Description:

Gets the folder's modification date

Parameters:

SourcePath Full path to source folder

Returns:

<datetime>	Success
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Missing SourcePath parameter
-4	SourcePath not found
-5	SourcePath is not a folder
-6	Unable to determine folder modification date

PCFM GetFolderAccessDate(SourcePath)

Description:

Gets the folder's access date

Parameters:

SourcePath Full path to source folder

Returns:

<datetime>	Success
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Missing SourcePath parameter
-4	SourcePath does not exist
-5	SourcePath is not a folder
-6	Unable to determine folder access date

PCFM GetFolderExists(SourcePath)

Description:

Determines if a folder exists or not

Parameters:

SourcePath Full path to source folder

Returns:

1	Folder doesn't exist
0	Success (folder exists)
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Missing SourcePath parameter
-4	SourcePath is not a folder

5) Practical Info

Use the following functions to obtain data about a given folder or drive such as the names of the drives on the local machine, and the number of files or folders in a given folder.

PCFM_GetDrives

Description:

Gets all valid drives (or volumes) separated by returns

Parameters:

none

Returns:

<drives>	Success
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Unable to determine drives

PCFM_GetFolders(SourcePath)

Description:

Gets all folder names in the path specified, separated by returns

Parameters:

SourcePath	Full path to folder where subfolders exist
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Returns:

<subfolders>	Success
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Missing SourcePath parameter
-4	SourcePath not found
-5	SourcePath is not a folder
-6	Unable to get subfolders

PCFM_GetFiles(SourcePath)

Description:

Gets all file names in the path specified, separated by returns

Parameters:

SourcePath Path to folder where files exist

Returns:

<files>	Success
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Missing SourcePath parameter
-4	SourcePath not found
-5	SourcePath is not a folder
-6	Unable to get files

PCFM_GetNumSubfolders(SourcePath)

Description:

Gets the number of subfolders in the path specified

Parameters:

SourcePath Path to folder where subfolders exists

Returns:

≥0	Success
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Missing SourcePath parameter
-4	SourcePath is not a folder
-5	SourcePath does not exist
-6	Unable to get number of subfolders

PCFM_GetNumFiles(SourcePath)

Description:

Gets the number of files in the path specified

Parameters:

SourcePath Path to folder where files exists

Returns:

≥0	Success
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Missing SourcePath parameter
-4	SourcePath is not a folder
-5	SourcePath does not exist
-6	Unable to get number of files

PCFM_GetDriveSize(SourcePath)

Description:

Gets the total size of the drive in bytes

Parameters:

SourcePath Drive name

Returns:

≥0	Success
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Missing DriveName parameter
-4	DriveName is not a drive
-5	DriveName does not exist
-6	Unable to determine total size of drive

6) Paths

The following two functions present navigation dialogs to the end user for choosing a file or folders path. The full path to the selected item is returned.

PCFM_GetFilePath(optPath)

Description:

Prompts user to select a file and returns the path to that file

Parameters:

optPath Folder to initially show files in. (Optional)

Returns:

<empty>	Success - User cancelled out of Choose File dialog
<file path>	Success – User selected a file
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Unable to get file path

PCFM_GetFolderPath(optPath)

Description:

Prompts user to select a folder and returns the path to that folder

Parameters:

optPath Folder to initially show folders in. (Optional)

Returns:

<empty>	Success - User cancelled out of Choose Folder dialog
<folder path>	Success – user selected a folder
-1	Plug-in expired
-2	Incorrect number of parameters
-3	Unable to get folder path

7) Registration Related Functions

PCFM_GetOperatingMode

Description:

Returns the current operating mode of the plug-in.

Parameters: none

Returns:

"DEMO" for demo mode, "LIVE" for live mode, or "UNREGISTERED" for unregistered mode, or "EXPIRED" for expired mode after 30 minute or 30 day timeout.

PCFM_Register(ServerName ; ServerPort ; ServerPage ; licenseID)

Description:

Registers the product with Productive Computing's registration servers. See the "Installation and Registration" document for more information about the registration process.

Parameters:

ServerName	"licensing.productivecomputing.com"
ServerPort	"80"
ServerPage	"/PCIReg/pcireg.asp"
LicenseID	"your license ID" or Demo ID Demo ID for Windows and/or Mac is "DEMO-FM2"

Returns: 0 for success, otherwise an error

PCFM_Version(optType) or PCFM_FMSAUCVersion

Description:

These functions return the version of the plug-in.

PCFM_Version is used on a Mac and PCFM_FMSAUCVersion is used on Windows.

Parameters:

optType - (Optional) String: "long" or "short"

The short version string includes only the version number of the plug-in. Example: "2.0.0.0".

The long includes the name of the plug-in and version number. Example: "PC File Manipulator 2.0.0.0"

The default version string returned is long.

Returns:

The version string (product name and/or version)

III. Contact Us

Successful integration of a FileMaker plug-in requires the creation of integration scripts within your FileMaker solution. A working knowledge of FileMaker Pro, especially in the areas of scripting and calculations is necessary. If you need additional support for scripting, customization or setup (excluding registration) after reviewing the videos, documentation, FileMaker demo and sample scripts, then please contact us via the avenues listed below.

Phone: 760-510-1200

Email: support@productivecomputing.com

Forum: www.productivecomputing.com/forum

Please note assisting you with implementing this plug-in (excluding registration) is billable at our standard hourly rate. We bill on a time and materials basis billing only for the time in minutes it takes to assist you. We will be happy to create your integration scripts for you and can provide you with a free estimate if you fill out a Request For Quote (RFQ) at www.productivecomputing.com/rfq . We are ready to assist and look forward to hearing from you!