



Productive
Computing



Functions Guide

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I. Introduction

Description

The Change Printer plug-in is a simple tool designed to aid in the task of printing records in a FileMaker® Pro database. The plug-in allows for the FileMaker user to design scripts that will dynamically change printing from one printer to another allowing you to set a series of printing attributes. The plug-in also has tools that can identify all printers currently available to a given user and ways to get and set the operating system default printer. 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 Guide
- 3) Reverse engineer our FileMaker demo file and review video tutorials
Demo and video tutorials: <http://www.productivecomputing.com/change-printer>
- 4) Familiarize yourself with printing in FileMaker Pro

II. Function Descriptions

This section describes the functions that are available with the Change Printer plug-in.

1) Registration Specific Functions

PCCP_GetLastError(Type)

Purpose:

Returns a textual or numeric description of the last error the plug-in encountered. This gives the developer the option to trap errors as text or a number.

Dependencies:

Call at least one plug-in function

Parameters:

Parameter Name	Purpose	Values	Default Value
Type	Determines if the result is text or a number	Null, Text, Number	If null, default is text.

Return Values:

Returns the current error from the last function called.

Notes & Examples:

Example: PCCP_GetLastError("Text") could return "Specified printer not found"

PCCP_GetOperatingMode

Purpose:

Returns the current operating mode of the plug-in.

Dependencies:

none

Parameters:

None

Return Values:

"DEMO" for demo mode, "LIVE" for live mode, or "UNREGISTERED" for unregistered mode, or "EXPIRED" for expired mode after 2 hour or 30 day timeout.

PCCP_Register(ServerName ; ServerPort ; ServerPage ; LicenseID)

Purpose:

This function is used to register the plug-in with Productive Computing. It must be called successfully once per user per machine before the plug-in can be used.

Dependencies:

none

Parameters:

Parameter Name	Purpose	Values
ServerName	The url of the Productive Computing registration server.	"licensing.productivecomputing.com"
ServerPort	The port that the registration server is listening on.	"80"
ServerPage	The path of the registration script.	"/PCIReg/pcireg.php"
LicenseID	Either the demo code ("DEMO-CP4" on Windows or "DEMO-MC4" on Mac), or the license ID provided by Productive Computing upon purchase of the plug-in.	"your license ID" or "DEMO-CP4" or "DEMO-MC4"

Return Values:

0 for success or !!ERROR!!

Notes & Examples:

Example: PCCP_Register("licensing.productivecomputing.com" ; "80" ; "/PCIReg/pcireg.php" ; "12345-1234")

PCCP_Version(optType)

Purpose:

This function returns the version of the plug-in. The Short version string includes only the version number of the plug-in. For example, "4.0.0.1". The Long includes the name of the plug-in and the version number. For example, "Change Printer 4.0.0.1."

Dependencies:

none

Parameters:

Parameter Name	Purpose	Values	Default Value
optType	selects the long or short format for the returned version string.	"Long" or "Short"	Long

Return Values:

The version string (product name and/or version)

2) Printer Functions

PCCP_ChangePrinter(PrinterName ; optShowDialog ; optPause ; optCopies ; optSource ; optOrientation ; optPageSize ; optRecordSet)

Purpose:

This function allows a script to print from any printer selected by name and also provide a set of attributes to that print job through a series of optional parameters. This function changes the printer and optional attributes that the next Print[] script step will print to. Proper usage is to call the PCCP_ChangePrinter function, then immediately after call the Print [] script step.

Dependencies:

none

Parameters:

Parameter Name	Purpose	Values	Default Value
PrinterName	This is the name of the desired printer.	The exact string value of the printer in the FileMaker print dialog	
optShowDialog	This parameter determines whether the print job will proceed immediately after the function call, or if it will present the user with the standard print dialog before proceeding. *If the optShowDlg is set to "1," then the function requires the user to press "OK" in the print dialog and does not automatically dismiss the Print dialog displayed by FileMaker. The function quits after setting the printer name. *If the optShowDlg is set to "0," then the function does NOT require the user to press "OK" in the print dialog as the function "presses" the print button before quitting. Please note that the user will briefly see the print dialog displayed by FileMaker.	0 for "False" OR 1 for "True"	0 or "False"
optPause	This parameter allows the user to determine how long the print dialog will be displayed before the print job proceeds. This parameter only has meaning if the optShowDialog parameter is set to 0.	The number of milliseconds to pause with the dialog showing. ex: 1500 = 1.5 seconds	0
optCopies	This parameter determines the number of copies the job will print.	1 - n, n being the number of copies you want to print	Default number of copies in the Print[] step or dialog
optSource	This parameter determines which source tray the paper will come from on the printer.	The exact string value of the print source tray as shown in the print dialog such as "Auto Select" or "Tray1" etc.	Default printer tray in the Print[] step or dialog
optOrientation	This parameter determines the orientation of the page that prints. 0 represents portrait and 1 represents landscape. Note: This parameter is not an option on the Mac, however, on a Mac you can use the FileMaker "Print Setup" script step to select the orientation.	0 or 1	Default page orientation in the Print[] step or dialog

optPageSize	This parameter determines the page size to format the print page to.	The exact string value of the page size as shown in the print dialog, such as "US Letter", "A4", or "Legal".	Default page size in the Print[] step or dialog
optRecordSet	This parameter determines the set of records to print, such as all records in the found set or just the current record.	"Found" for all records in the found set / records currently being browsed, "Current" for just the currently opened record.	Default record set in the Print[] step or dialog

Return Values:

0 for success or !!ERROR!!

Notes:

PCCP_ChangePrinter("Brother Printer Bull Pen" ; 0 ; 1000 ; 3 ; "Tray 1" ; 0 ; "Letter" ; "Current")

Leaving an optional parameter as blank ("" or omitted from the parameter list) will default that setting to the setting as set in the Print[] script step.

Examples:

PCCP_ChangePrinter("Brother Printer Bull Pen" ; 0 ; 1000 ; 1 ; "" ; "" ; "" ; "")

- Will print one copy to the Brother Printer Bull Pen printer, using the default tray, orientation, page size, and record set as defined in the FileMaker Print dialog.

PCCP_ChangePrinter("Brother Printer Bull Pen" ; 0 ; 1000 ; 1)

- Will achieve the same results as the example above.

PCCP_ChangePrinter("Brother Printer Bull Pen" ; 0 ; 1000 ; 1 ; "" ; 1 ; "" ; "Found")

- Will print one copy to the Brother Printer Bull Pen printer, using the default tray and page size, but set the orientation to Landscape (on Windows) and print all records that are currently being browsed (found set).

PCCP_GetPrinterAt(index)

Purpose:

This function returns the name of a printer. This name can be used in the PCCP_ChangePrinter and PCCP_SetSystemPrinter functions.

Dependencies:

none

Parameters:

Parameter Name	Purpose	Values	Default Value
index		The 1 based index of the desired printer name to be returned.	

Return Values:

The printer name at the index or !!ERROR!!

PCCP_GetSystemPrinter

Purpose:

This function returns the name of the printer that is the default printer in the 'Print' dialog.

Dependencies:

none

Parameters:

None

Return Values:

The name of the printer or !!ERROR!!

PCCP_SetSystemPrinter(PrinterName)

Purpose:

This function sets the name of the printer that is the default printer in the 'Print' dialog.

Dependencies:

none

Parameters:

Parameter Name	Purpose	Values	Default Value
PrinterName	Specify the desired default printer	some printer name	

Return Values:

0 for success or !!ERROR!!

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!