



Function's Guide

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I. Introduction

Description

The Entourage Manipulator plug-in offers functions that support bi-directional data exchange between FileMaker® and Microsoft Entourage®. With this plug-in FileMaker users are able to 'push' new records into Entourage, 'pull' records from Entourage, and modify existing records in Entourage. 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. For a list of the basic integration steps, please see the accompanying "Developers Guide" document.

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) Look at our FileMaker Demo and video tutorials
Demo and video tutorials can be found here: <http://www.entouragemanipulator.com>
- 4) Familiarize yourself with Entourage

Error Handling

Any of the plug-in functions may encounter an error during processing. The function will return the string "!! ERROR!!". When an error occurs during processing, immediately call the GetLastErrorText function in order to obtain a full description of the error. This function returns the message associated with the last error. The text returned by this function helps the user to troubleshoot script or logic failures.

II. Function Descriptions

This section describes the functions that are available with the Entourage Manipulator plug-in.

1) Application and Registration Specific Functions

PCEM Authenticate(DebugOption ; optPassword)

Description:

Opens an Entourage identity for reading and writing. If there is an error opening the designated identity, the user will be prompted to choose an identity. The plug-in will work with the currently opened Entourage identity. If Entourage is not opened, the default identity will be used or the user will be prompted to choose an identity depending on their Entourage settings. Authenticate must be called once per FileMaker session before any other Entourage Manipulator function is used.

Parameters:

DeBugOption = Leave blank ("") as this is a place holder for future plug-in functionality.

optPassword = Leave blank ("") as this is a place holder for future plug-in functionality.

Return Values:

0 for success otherwise !!ERROR!!

PCEM GetLastErrorText

Description:

Call this function immediately after receiving !!ERROR!! from any other function call to return a verbose description of the last error encountered.

Parameters:

none

Return Values:

Description of the last error

PCEM GetOperatingMode

Description:

Returns the current mode of operation for the plug-in.

Parameters:

none

Return Values:

LIVE , DEMO, UNREGISTERED or EXPIRED

PCEM_Register(ServerName ; ServerPort ; ServerPage ; licenseID)

Description:

Registers the plug-in with Productive Computing's registration servers. Must call Register function once before using the plug-in.

Parameters:

ServerName = "licensing.productivecomputing.com"
ServerPort = "80"
ServerPage = "/PCIReg/pcireg.asp"
LicenseID = "your license ID" or "DEMO-ZM2"

Return Values:

0 for success or an error. Anything other than 0 is an error.

PCEM_SendMail(To ; Cc ; Bcc ; Subject ; Body ; Attachments ; optUseHTML)

Description:

Use to send an e-mail message in a single step to the intended recipients with the given subject, body, attachments and formatting options. All parameters except Subject, Body and OptUseHTML can contain multiple comma separated values. Use returns to separate the paths for use with multiple attachments. This is the "short" method to send mail using the plug-in unless you want to set the Categories field. If you want to set the Categories field, then use the "long" method (PCEM_NewRecord, PCEM_SetFieldData, PCEM_SaveRecord) as explained in the PCEM_SaveRecord function.

Parameters:

To The recipients of the e-mail
Cc The carbon copy recipients
Bcc The blind carbon recipients
Subject The subject of the message
Body The Body of the message
Attachments Any attachments for the message
optUseHTML 'Y' for HTML formatted, 'N' or '' for plain text formatting

Return Values:

0 for success otherwise !!ERROR!!

Note:

In our FileMaker demo file we demonstrate sending attachments stored in a container field. However you can also send attachments from any path on your computer or network drive by simply specifying the full path to the attachment. Be sure to include the name of the file when specifying the path and use commas between multiple attachments.

PCEM Version(type)

Description:

This function returns the version of the plug-in. The Short version string includes only the version number of the plug-in. For example, "2.0.0.7". The Long version includes the name of the plug-in and the version number. For example, "Entourage Manipulator 2.0.0.7" The default version string returned is Long.

Parameters:

type = 'Short' or 'Long'

Return Values:

The version string (product name and/or version)

2) Record Specific Functions

PCEM_NewRecord(optModule)

Description:

Creates a new Record/Item in the current Entourage Folder. This record may be modified using calls to SetField(). Call OpenFolder first to set the folder that the item will be saved to or specify the optModule parameter. The parameter to PCEM_NewRecord is optional and if it is left empty the current module is used. If you pass a parameter to PCEM_NewRecord, it does the equivalent of PCEM_OpenFolder with the parameter followed by PCEM_NewRecord with no parameter.

Parameters:

optModule = The type of record to create. This is an optional parameter and if left blank the new record will match the type for the current folder. Valid values are "Mail", "AddressBook" or "Contacts", "Calendar", "Notes", and "Tasks".

Return Values:

0 for success otherwise !!ERROR!!

PCEM_OpenRecord(EntourageID)

Description:

Opens the specified record for editing. This function requires a call to OpenFolder before it will be able to locate the record.

Parameters:

EntourageID = The Entourage ID of the item to open.

Return Values:

0 for success otherwise !!ERROR!!

PCEM_GetFieldData(FieldName)

Description:

Extracts the value contained in the specified field. Must have an open record first.

Parameters:

FieldName = The name of the Entourage field to extract the data from (for a list of valid available fields see the Functions Guide)

Return Values:

The string representation of the field value or !!ERROR!!.

PCEM_SetFieldData(FieldName ; FieldValue)

Description:

Sets the specified field to the specified value.

Parameters:

FieldName = Name of the Entourage field to populate (for a list of valid available fields see the Functions Guide)

FieldValue = The information to populate the Entourage field.

Return Values:

0 for success otherwise !!ERROR!!

PCEM_VerifyFieldData(FieldName ; FieldValue)

Description:

Compare the specified value to the value contained in the specified field

Parameters:

FieldName = The name of the Entourage field to compare FieldValue to.

VerifyData = The data to compare to the contents of the Entourage field identified by FieldName

Return Values:

0 if the VerifyData matches the contents of the Entourage field or else !!ERROR!!

1 if the VerifyData does NOT match the contents of the Entourage field or else !!ERROR!!

PCEM_SaveRecord(optionalParam)

Description:

Saves the record to the currently opened Entourage folder. If the item being saved is an e-mail, then the message will be sent. You can also use the "short" method using the PCEM_SendMail function (found earlier in this document) to send email out in a single step. It is far easier to program and supports HTML email via a parameter setting. The only time you need to create an email using the "long" method (PCEM_NewRecord, PCEM_SetFieldData, PCEM_SaveRecord) is if you want to set the category field in your email.

Parameters:

optParam = this is a place holder for future plug-in functionality.

Return Values:

The EntourageID for the Item or !!ERROR!!

PCEM DeleteRecord(EntourageID ; Permanent)

Description:

Deletes a record in the currently opened folder.

Parameters:

EntourageID = The Entourage ID of the record to delete

Permanent = Use "Y" or empty ("") to move MAIL item to the "Deleted Items" folder. Later you can permanently delete the items from the "Deleted Items" folder by calling "PCEM_EmptyAllDeletedItems". The Permanent parameter is only applicable to "Mail" items. If function is passed for "Address Book", "Calendar", "Tasks" or "Notes" items, then the item will be automatically permanently deleted. This is a function of Entourage rather than the plug-in.

Return Values:

0 for success otherwise !!ERROR!!

PCEM MoveRecord(FolderPath)

Description:

Moves the currently opened Entourage Item from its current folder to another folder. Note that a call to PCEM_OpenFolder must precede this call. Generally when working with a script loop the function is called in order to obtain the source record. However, there are occasions where the user will obtain the record to be moved via the PCEM_OpenRecord function. In this case the user must call PCEM_OpenFolder for either the source folder or the destination folder.

Parameters:

FolderPath = The path of the destination folder. Path must include a file name and file extension.

Example path is "My HD/Users/Me/Desktop/filename.pdf"

Return Values:

A new Entourage ID for the record, or !!ERROR!!

Notes:

MoveRecord pertains to "mail" items ONLY. Moving a record does not change the ID.

3) Attachment Specific Functions

PCEM_AddAttachment(FilePath ; Name)

Description:

Adds an attachment to the currently open item.

Parameters:

FilePath = The absolute path to the file to attach

Name = The name of the file as it is to appear in Entourage.

Return Values:

0 for success otherwise !!ERROR!!

PCEM_GetAttachmentCount

Description:

Returns the number of attachments the currently opened item has.

Parameters:

none

Return Values:

the count or !!ERROR!!

PCEM_GetAttachmentName(Index)

Description:

Gets the name of the specified attachment to the currently opened Entourage Item.

Parameters:

Index = The index of the attachment

Return Values:

A the name of the attachment or else !!ERROR!!

PCEM_SaveAttachment(FilePath ; Index)

Description:

Saves the specified attachment to a specified location.

Parameters:

FilePath = The absolute path that you would like to save the attachment to.

Return Values:

0 for success otherwise !!ERROR!!

4) Folder Specific Functions

PCEM_EmptyAllDeletedItems

****THIS FUNCTION HAS LIMITED AVAILABILITY AT THIS TIME****

Description:

This command will remove all items from the "Deleted Items" folder in Entourage. All deleted items moved there using the "DeleteRecord" command and all items that the user moved to this folder manually will be deleted. This option should be used with caution.

Parameters: none

Return Values:

0 for success otherwise !!ERROR!!

PCEM_GetFirstFolder

Description:

Returns the full path of the first folder identified by Entourage.

Parameters: none

Return Values:

A path to a folder or else !!ERROR!!.

PCEM_GetNextFolder

Description:

Returns the full path of the next folder identified by Entourage in the current root folder. A call to GetFirstFolder must be made before calling this function for the first time.

Parameters: none

Return Values:

A path to a folder, "End" if there are no more folders, or !!ERROR!!.

PCEM_OpenFolder(FolderPath)

Description:

Opens the specified Folder for editing.

Parameters:

FolderPath = The path to the folder from the current root folder. The folder path must start with "/" to search for the folder from the root folder.

Return Values

0 for success or !!ERROR!!

PCEM_GetFolderID

Description:

This is used to get the EntourageID of the currently opened Folder.

Parameters:

none

Return Values:

An EntourageID or !!ERROR!!.

PCEM_DeleteAllRecords(ExcludePrivate ; ExcludeDistList)

****THIS FUNCTION HAS LIMITED AVAILABILITY AT THIS TIME****

Description:

This command will delete all records from a given module. This command should be used with extreme caution as it will remove ALL items permanently and it will not save a copy of items in the "Deleted Items" folder in Entourage. There is no "undo" for this command. The optional parameters to exclude "Private" will remove all records except for those marked as "private" in Entourage. The optional parameter to exclude "Distribution List" applies to the Contacts module only. Use this option if you wish exclude any "Distribution List" and its associated members. See the Entourage help file for more information on "Distribution Lists" in Entourage.

Parameters:

ExcludePrivate = excludes Private items (set to "1" to exclude)

ExcludeDistList = exclude Distribution List (set to "1" to exclude) Contacts module. There could be limited availability using this parameter in an Exchange environment. Leave blank ("") as this is a place holder for future plug-in functionality.

Return Values:

0 for success otherwise !!ERROR!!

PCEM_GetRecordCount

Description:

Returns the number of available records in the currently opened folder.

Parameters:

none

Return Values:

The number of records or !!ERROR!!

PCEM_GetFirstRecord

Description:

Opens the first record in the currently opened folder.

Parameters:

none

Return Values:

The EntourageID or !!ERROR!!.

PCEM_GetNextRecord

Description:

Opens the next record in the currently opened folder. Requires a single call to GetFirstRecord in order to build the list of available records in the currently opened folder

Parameters:

none

Return Values:

'End' if there are no more records or the EntourageID of the next record or !!ERROR!!.

PCEM_GetFolderType

Description:

Returns a string representation of the default item type for the currently opened folder.

Parameters:

none

Return Values:

"Mail" or !!ERROR!!

III. Appendix – Available Fields

** Fields ARE case sensitive.**

Available Contact Fields		
Field name	Alternate name	Notes
Age		Read Only
Anniversary		Date
Assistant Phone		
Astrology Sign		
Birthday		Date
Body	Notes	This field is the "note" field in contacts
Business Address		Read Only
Business Address City		
Business Address Country		
Business Address Postal Code		
Business Address State		
Business Address Street		
Business Fax		
Business Home Page		
Business Phone		
Business Phone 2		
Car Phone		
Categories		
Children		
Company		
Custom Date 1		
Custom Date 1 name		
Custom Date 2		
Custom Date 2 name		
Custom Field 1	User Field 1	
Custom Field 1 name		
Custom Field 2	User Field 2	
Custom Field 2 name		
Custom Field 3	User Field 3	
Custom Field 3 name		
Custom Field 4	User Field 4	
Custom Field 4 name		
Custom Field 5		
Custom Field 5 name		
Custom Field 6		
Custom Field 6 name		
Custom Field 7		
Custom Field 7 name		
Custom Field 8		
Custom Field 8 name		

Available Contact Fields cont...

Field name	Alternate name	Notes
Custom Phone 1		
Custom Phone 1 name		
Custom Phone 2		
Custom Phone 2 name		
Custom Phone 3		
Custom Phone 3 name		
Custom Phone 4		
Custom Phone 4 name		
Department		
E-mail		
E-mail Label		Work, Home or Other
E-mail 2		
E-mail 2 Label		Work, Home or Other
E-mail 3		
E-mail 3 Label		Work, Home or Other
First Name		
GUID		Read Only
Hobbies		
Home Address		Read Only
Home Address City	City	
Home Address Country	Country/Region	
Home Address Postal Code	Home Address Zip, Zip/Postal Code	
Home Address State	State	
Home Address Street		
Home Fax		
Home Phone		
Home Phone 2		
ID		Read Only
IM Address		
IM Address 2		
IM Address 3		
Job Title		
Last Name		
Last Received Date		last time email received
Last Sent Date		last time email sent
Mobile Phone		
Modify		(Date Modified) Read Only
Nickname		
Pager		
Personal Home Page	Web Page	
Primary Phone		
Spouse		
Suffix		
Title		

Available Calendar Fields

Field name	Alternate name	Notes
All Day Event		True or False
Body		This field is the "note" field in calendar
Busy Status		Busy/Free/Out of Office/Tentative
Categories		
End		Date/Time
GUID		Read Only
Has Reminder		Read Only
iCal Data		Read Only
ID		Read Only
Location		
Modify		(Date Modified) Read Only
Recurrence		Read Only
Recurring		Read Only
Reminder Time		
Start		Date/Time
Subject		

**** TIP: Place "Start" field BEFORE "End" field when calling SetFieldData in Calendar! ****

**** TIP: Place "All Day Event" field BEFORE "End" field when calling SetFieldData in Calendar! ****

Available Mail Fields

Field name	Alternate name	Notes
Bcc		
Body		Get or set body of email
Categories		
Cc		
From		Read Only
From1		Read Only - same as From
Header		Read Only
HTML Body		Get or set HTML body of email
ID		Read Only
Modify		(Date Modified) Read Only
Received Time		Read Only
Sent On		Read Only
Subject		
To		

Available Task Fields

Field name	Alternate name	Notes
Body		This field is the "note/content" field in tasks
Categories		
Complete		True or False
Date Completed		Read Only - Date/Time - Entourage 2008 only
Due Date		Date/Time
GUID		Read Only
Has Due Date		True or False - Entourage 2008 only
Has Reminder		True or False
Has Start Date		True or False - Entourage 2008 only
iCal Data		Read Only
ID		Read Only
Modify		(Date Modified) Read Only
Priority	Importance	Highest, High, Normal, Low, Lowest
Recurring		Read Only (returned as "True" or "False")
Reminder Time		DateTime or 'None'
Start Date		DateTime - Entourage 2008 only
Subject		

Available Note Fields

Field name	Alternate name	Notes
Body		This field is the "note" field in calendar
Categories		
Created		(Date/ Time) Read Only
GUID		Read Only
iCal Data		Read Only
ID		Read Only
Modify		(Date Modified) Read Only
Subject		

IV. 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!