



# Migration Guide

Outlook Manipulator to Exchange Manipulator SE

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#### I. Introduction

#### **Description:**

This migration guide is intended to provide guidance on migrating your scripts from using the Outlook Manipulator plug-in integrated to communicate with the Microsoft® Outlook application to using the Exchange Manipulator SE plug-in features. This migration guide only applies if your solution is designed to communicate with Exchange accounts; if usage of IMAP/POP3, Gmail, or other non-Exchange mailbox accounts are required, the original Outlook Manipulator plug-in integration will suffice.

The Exchange Manipulator SE plug-in also allows for server-side integration. For further information on server-side integration, please refer to the Developer's Guide.

#### II. Authentication

Unlike the Outlook Manipulator plug-in, which authenticates to the Outlook application instance and uses the associated user's connected credentials, the Exchange Manipulator plug-in connects directly to the Exchange service through an authentication process known as "OAuth 2.0". This process involves prompting the user to log in under a Microsoft account and allow access for the Exchange Manipulator to communicate on their behalf.

The primary functions for authentication are the "PCEX\_BeginSession" and "PCEX\_Authorize" functions. PCEX\_BeginSession will start the session and launch a web browser interface for the user to log into their Microsoft account and allow the Exchange Manipulator plug-in. The end of that process will provide a session string that contains encoded information the plug-in requires to 'finish' the authentication process. PCEX\_Authorize accepts that session string and finalizes the process, as well as performs a simple validation request to ensure the plug-in has the correct access information configured.

It is important to note that the authentication process requires the developer to set up an "app registration" on the Exchange Azure Active Directory settings. Details for setting up this registration are provided in the Developer's Guide.

#### 1) Authenticated User Permissions

When the plug-in has successfully authenticated with Exchange, all communication will be performed as though the user had performed the actions. This also means that anything the user has permission to perform, the plug-in will also have permission to perform. If the solution attempts to communicate using another user's mailbox while authenticated (this is similar to calling PCEM\_OpenRootFolder on another Outlook account's mailbox), the plug-in will only be able to do what that other mailbox allows the authenticated user to do.

For more information on this, please see the example present in the Developer's Guide and in the entry for PCEX OpenMailbox in the Functions Guide.

#### 2) Functional Workflows

The Exchange Manipulator SE plug-in functions very similarly to the Outlook Manipulator plug-in with regards to its logical order of operations and handling of records and folders. To pull an email into FileMaker, for example, the plug-in would perform the following logical pseudoscript:

PCEX\_Authenticate
PCEX\_OpenFolder( Some Mail Folder )
PCEX\_OpenRecord( Record's Unique Identifier )
PCEX\_GetFieldData( Some Field )
Repeat until done

The plug-in can also navigate records using PCEX\_GetFirstRecord and PCEX\_GetNextRecord, similar to the Outlook Manipulator's PCEM\_GetFirstRecord and PCEM\_GetNextRecord functions.

However, due to the inherent differences in the underlying structures of the Exchange Manipulator SE and Outlook Manipulator plug-ins, the plug-in functions will not map when replacing the Outlook Manipulator plug-in with the Exchange Manipulator SE plug-in. We advise keeping the original Outlook Manipulator plug-in installed while performing the migration so that your scripting will retain the original plug-in function calls, and reference those when replacing the functions with those from the Exchange Manipulator SE plug-in.

## III. Functions

The following table displays a mapping of functions from the Outlook Manipulator plug-in to the Exchange Manipulator SE plug-in. Functions in **blue** are only found in the Outlook Manipulator plug-in, and functions in **green** are only found in the Exchange Manipulator plug-in:

| PCEM_Register( ServerName; ServerPort; ServerPage; LicenseID) PCEM_Version( Type) PCEM_Version( Type) PCEM_Authenticate( Username; Password)  PCEX_Begister( ServerName; ServerPort; ServerPage; LicenseID) PCEM_Version( Type) PCEM_Authenticate( Username; Password)  PCEX_BeginSession( AppID; TenantID) PCEX_Authorize( Authstring) PCEX_SaveSessionInfo PCEX_LoadSessionInfo( SessionInfo) PCEX_LoadSessionInfo( SessionInfo) PCEM_CreateCustomField( Name; Type) PCEM_DeleteCurrentRecord( bPermanent) PCEM_DeleteRecord( OutlookID; Permanent) PCEM_DeleteRecord( OutlookID; Permanent) PCEM_Display( ShowInForeground) PCEM_FilterByLastModified( Timestamp) PCEM_GetCustomFieldData( FieldName) PCEM_GetCustomFieldData( FieldName) PCEM_GetFieldData( FieldName) PCEM_GetFieldData( FieldName) PCEM_NewRecord( FolderPath) PCEM_OpenRecord( FolderPath) PCEM_OpenRecord( OutlookID) PCEM_OpenSavedItem( strPath) PCEM_SaveRecord( StrPath) PCEM_SaveRecord( StrPath) PCEM_SaveRecord( optionalParam) PCEM_SaveRecord( optionalParam) PCEM_SaveRecord( StrPath) PCEM_SetFieldData( FieldName; Data) PCEM_SetFieldData( FieldName; Data) PCEM_SetFieldData( FieldName; Data) PCEM_SetCustomFieldData( FieldName; Data) PCEM_SetCustomFieldData( FieldName; Data) PCEM_SetCustomFieldData( FieldName; Data) PCEM_SetCustomFieldData( FieldName; FieldData; FieldType) PCEM_SetCustomFieldData( FieldName; Data) PCEM_SetCustomFieldData( FieldName; Data) PCEM_SetCustomFieldData( FieldName; FieldData; FieldType) PCEM_GetAddAttachment( FilePath; Name) PCEM_GetAddAttachment( FilePath; Name) PCEM_GetAttachmentName( Index; optTruncated)   | Outlook Manipulator                            | Exchange Manipulator SE                          |
|--|--|--|
| ServerPage; LicenseID )  PCEM_Version( Type )  PCEM_Authenticate( Username; Password )  PCEM_Authenticate( Username; Password )  PCEX_BeginSession( AppID; TenantID )  PCEX_Authorize( AuthString )  PCEX_SaveSessionInfo  PCEX_LoadSessionInfo( SessionInfo )  PCEM_AddOneOffMember( Name; Address; Type )  PCEM_CreateCustomField( Name; Type )  PCEM_DeleteCurrentRecord( bPermanent )  PCEM_DeleteCurrentRecord( bPermanent )  PCEM_DeleteRecord( OutlookID; Permanent )  PCEM_Display( ShowInForeground )  PCEM_FilterByLastModified( Timestamp )  PCEM_GetCustomFieldData( FieldName )  PCEM_GetFieldData( FieldName )  PCEM_GetFieldData( FieldName )  PCEM_MoveRecord( FolderPath )  PCEM_OpenRecord( optModule )  PCEM_OpenRecord( OutlookID )  PCEM_OpenSavedItem( strPath )  PCEM_SaveRecord( optMoalParam )  PCEM_SendMail( To ; Cc ; Bcc ; Subject ; Body ; Attachments ; optUseHTML )  PCEM_SetfieldData( FieldName ; Data )  PCEM_SetfieldData( FieldName ; Data )  PCEM_SetCustomFieldData( FieldName ; VerifyData )  PCEM_SetCustomFieldData( FieldName ; FieldData ; FieldType )  PCEM_AddAttachment( FilePath ; Name )  PCEM_AddAttachment( FilePath ; Name )  PCEM_GetAttachmentCount  | PCEM_GetOperatingMode                          | PCEX_GetOperatingMode                            |
| PCEM_Authenticate( Username ; Password )  PCEM_Authenticate( Username ; Password )  PCEX_BeginSession( AppID ; TenantID )  PCEX_BeginSession( AppID ; TenantID )  PCEX_Authorize( AuthString )  PCEX_SaveSessionInfo  PCEX_SaveSessionInfo ( SessionInfo )  PCEM_AddOneOffMember( Name ; Address ;  Type )  PCEM_CreateCustomField( Name ; Type )  PCEM_DeleteCurrentRecord( bPermanent )  PCEM_DeleteCurrentRecord( bPermanent )  PCEM_DeleteRecord( OutlookID ; Permanent )  PCEM_Display( ShowInForeground )  PCEM_Display( ShowInForeground )  PCEM_GetCustomFieldData( FieldName )  PCEM_GetFieldData( FieldName )  PCEM_GetFieldData( FieldName )  PCEM_GetFieldData( FieldName )  PCEM_MoveRecord( potlookID )  PCEM_NewRecord( optModule )  PCEM_OpenSavedItem( strPath )  PCEM_OpenSavedItem( strPath )  PCEM_SaveRecord( optionalParam )  PCEM_SaveRecord( optionalParam )  PCEM_SaveRecordAsMsy( strPath )  PCEM_SetFieldData( FieldName ; Data )  PCEM_SetCustomFieldData( FieldName ; FieldData ; FieldType )  PCEM_SetCustomFieldData( FieldName ; FieldData ; FieldType )  PCEM_SetCustomFieldData( FieldName ; FieldData ; FieldType )  PCEM_AddAttachment( FilePath ; Name )  PCEM_GetAttachmentCount  | PCEM_Register( ServerName ; ServerPort ;       | PCEX_Register( ServerName ; ServerPort ;         |
| PCEM_Authenticate( Username ; Password )  PCEX_BeginSession( AppID ; TenantID )  PCEX_Authorize( AuthString )  PCEX_SaveSessionInfo  PCEX_SaveSessionInfo (SessionInfo )  PCEM_AddOneOffMember( Name ; Address ; Type )  PCEM_CreateCustomField( Name ; Type )  PCEM_DeleteCurrentRecord( bPermanent )  PCEM_DeleteCurrentRecord( UntlookID ; Permanent )  PCEM_Display( ShowInForeground )  PCEM_Display( ShowInForeground )  PCEM_GetCustomFieldData( FieldName )  PCEM_GetCustomFieldData( FieldName )  PCEM_GetGetCustomFieldData( FieldName )  PCEM_GetFieldData( FieldName )  PCEM_GetFieldData( FieldName )  PCEM_NewRecord( optModule )  PCEM_NewRecord( optModule )  PCEM_OpenRecord( OptModule )  PCEM_OpenSavedItem( strPath )  PCEM_SaveRecord( optionalParam )  PCEM_SaveRecord( optionalParam )  PCEM_SaveRecord( optionalParam )  PCEM_SaveRecordAsMsg( strPath )  PCEM_SetFieldData( FieldName ; Data )  PCEM_SetCustomFieldData( FieldName ; FieldData ; FieldType )  PCEM_AddAttachment( FilePath ; Name )  PCEM_AddAttachment( FilePath ; Name )  PCEM_GetAttachment( FilePath ; Name )  | ServerPage ; LicenseID )                       | ServerPage ; LicenseID )                         |
| PCEX_BeginSession(AppID; TenantID)  PCEX_Authorize(AuthString)  PCEX_SaveSessionInfo  PCEX_SaveSessionInfo  PCEX_LoadSessionInfo(SessionInfo)  PCEM_LoadSessionInfo(SessionInfo)  PCEM_LoadSessionInfo(SessionInfo)  PCEM_LoadSessionInfo(SessionInfo)  PCEM_LoadSessionInfo(SessionInfo)  PCEM_CreateCustomField(Name; Type)  PCEM_DeleteCurrentRecord(bPermanent)  PCEM_DeleteRecord(OutlookID; Permanent)  PCEM_DeleteRecord(CentryID; bPermanent)  PCEM_Display(ShowInForeground)  PCEM_GetCustomFieldData(FieldName)  PCEM_GetCustomFieldData(FieldName)  PCEM_GetFieldData(FieldName)  PCEM_GetFieldData(FieldName)  PCEM_MoveRecord(FolderPath)  PCEM_NewRecord(OptModule)  PCEM_NewRecord(OptModule)  PCEM_OpenRecord(OutlookID)  PCEM_OpenRecord(OutlookID)  PCEM_OpenSavedItem(strPath)  PCEM_SaveRecord(AptionalParam)  PCEM_SaveRecord(AptionalParam)  PCEM_SaveRecord(AptionalParam)  PCEM_SaveRecord(AptionalParam)  PCEM_SaveRecord(AptionalParam)  PCEM_SaveRecordAsMsg(StrPath)  PCEM_SendMail(To; Cc; Bcc; Subject; Body; Attachments; OptUseHTML)  PCEM_SetFieldData(FieldName; Data)  PCEM_SetFieldData(FieldName; Data)  PCEM_SetCustomFieldData(FieldName; VerifyData)  PCEM_SetCustomFieldData(FieldName; VerifyData)  PCEM_SetCustomFieldData(FieldName; FieldData; FieldType)  PCEM_AddAttachment(FilePath; Name)  PCEM_GetAttachmentCount  PCEM_GetAttachmentCount   | PCEM_Version( Type )                           | PCEX_Version( Type )                             |
| PCEX_Authorize( AuthString ) PCEX_SaveSessionInfo PCEX_LoadSessionInfo (SessionInfo )  PCEM_AddOneOffMember( Name ; Address ; Type ) PCEM_CreateCustomField( Name ; Type ) PCEM_DeleteCurrentRecord( bPermanent ) PCEM_DeleteRecord( OutlookID ; Permanent ) PCEM_Display( ShowInForeground ) PCEM_BilterByLastModified( Timestamp ) PCEM_GetCustomFieldData( FieldName ) PCEM_GetFieldData( FieldName ) PCEM_GetFieldData( FieldName ) PCEM_MoveRecord( FolderPath ) PCEM_NewRecord( FolderPath ) PCEM_OpenRecord( OutlookID ) PCEM_OpenRecord( OutlookID ) PCEM_OpenRecord( OutlookID ) PCEM_SaveRecord( optionalParam ) PCEM_SaveRecord( optionalParam ) PCEM_SaveRecord( optionalParam ) PCEM_SetFieldData( FieldName ; Data ) PCEM_SetFieldData( FieldName ; Data ) PCEM_SetFieldData( FieldName ; Data ) PCEM_SetCustomFieldData( FieldName ; FieldData ; FieldData ; FieldData ; FieldData ; FieldData ; FieldData ; PCEM_SetCustomFieldData ( FieldName ; PCEM_SetCustomFieldData ( FieldName ; FieldData ; PCEM_SetCustomFieldData ( FieldName ; PCEM_SetCustomFieldData ( FieldName ; PCEM_SetCustomFieldData ( FieldName ; PCEM_SetCustomFieldData ( FieldName ) PCEM_SetCustomFieldData (  | PCEM_Authenticate( Username ; Password )       |  |
| PCEM_AddOneOffMember( Name ; Address ; Type )  PCEM_CreateCustomField( Name ; Type )  PCEM_DeleteCurrentRecord( bPermanent )  PCEM_DeleteRecord( outlookID ; Permanent )  PCEM_Display( ShowInForeground )  PCEM_GetCustomFieldData( FieldName )  PCEM_GetCustomFieldData( FieldName )  PCEM_GetFieldData( FieldName )  PCEM_MoveRecord( FolderPath )  PCEM_NewRecord( optModule )  PCEM_OpenRecord( OutlookID )  PCEM_OpenRecord( OutlookID )  PCEM_OpenRecord( optModule )  PCEM_OpenRecord( optModule )  PCEM_SaveRecord( potModule )  PCEM_SaveRecord( optModule )  PCEM_SaveRecord( optParam )  PCEM_SaveRecord( potModule )  PCEX_SaveRecord( optParam )  PCEM_SaveRecordAsMsg( strPath )  PCEX_SaveRecordAsEML( strPath )  PCEX_SaveRecordAsEML( strPath )  PCEX_SaveRecordAsEML( strPath )  PCEX_SaveRecordAsEML( strPath )  PCEX_SendMail( To ; Cc ; Bcc ; Subject ; Body ; Attachments ; optUseHTML )  PCEM_SetFieldData( FieldName ; Data )  PCEM_SetFieldData( FieldName ; Data )  PCEX_SetFieldData( FieldName ; Data )  PCEM_SetCustomFieldData( FieldName ; FieldData ; FieldType )  PCEM_AddAttachment( FilePath ; Name )  PCEM_GetAttachmentCount   |  | PCEX_BeginSession( AppID ; TenantID )            |
| PCEM_AddOneOffMember( Name ; Address ; Type )  PCEM_CreateCustomField( Name ; Type )  PCEM_DeleteCurrentRecord( bPermanent ) PCEX_DeleteCurrentRecord( bPermanent )  PCEM_DeleteRecord( OutlookID ; Permanent ) PCEX_DeleteRecord( EntryID ; bPermanent )  PCEM_Display( ShowInForeground )  PCEM_FilterByLastModified( Timestamp ) PCEX_GetCustomFieldData( FieldName )  PCEM_GetFieldData( FieldName ) PCEX_GetFieldData( FieldName )  PCEM_MoveRecord( FolderPath ) PCEX_MoveRecord( FolderPath )  PCEM_NewRecord( optModule ) PCEX_NewRecord( optModule )  PCEM_OpenRecord( OutlookID ) PCEX_OpenRecord( EntryID )  PCEM_SaveRecord( optionalParam ) PCEX_SaveRecord( optParam )  PCEM_SendMail( To ; Cc ; Bcc ; Subject ; Body ; Attachments ; optUseHTML )  PCEM_SetFieldData( FieldName ; Data ) PCEX_SetFieldData( FieldName ; Data )  PCEM_SetCustomFieldData( FieldName ; Data ) PCEX_SetCustomFieldData( FieldName ; FieldData ; optType )  PCEM_AddAttachment( FilePath ; Name ) PCEX_AddAttachment( FilePath ; Name )  PCEM_GetAttachmentCount  |  | PCEX_Authorize( AuthString )                     |
| PCEM_AddOneOffMember( Name ; Address ; Type )  PCEM_CreateCustomField( Name ; Type )  PCEM_DeleteCurrentRecord( bPermanent ) PCEX_DeleteCurrentRecord( bPermanent )  PCEM_DeleteRecord( OutlookID ; Permanent ) PCEX_DeleteRecord( EntryID ; bPermanent )  PCEM_Display( ShowInForeground )  PCEM_FilterByLastModified( Timestamp ) PCEX_FilterByLastModified( Timestamp )  PCEM_GetCustomFieldData( FieldName ) PCEX_GetCustomFieldData( FieldName )  PCEM_GetFieldData( FieldName ) PCEX_GetFieldData( FieldName )  PCEM_MoveRecord( FolderPath ) PCEX_MoveRecord( FolderPath )  PCEM_NewRecord( optModule ) PCEX_NewRecord( optModule )  PCEM_OpenRecord( OutlookID ) PCEX_OpenRecord( EntryID )  PCEM_OpenSavedItem( strPath )  PCEM_SaveRecordAsMsg( strPath ) PCEX_SaveRecord( optParam )  PCEM_SeveRecordAsMsg( strPath ) PCEX_SaveRecordAsEML( strPath )  PCEM_SendMail( To ; Cc ; Bcc ; Subject ; Body ; Attachments ; optUseHTML )  PCEM_SetFieldData( FieldName ; Data ) PCEX_SetFieldData( FieldName ; Data )  PCEM_VerifyFieldData( FieldName ; Data ) PCEX_SetCustomFieldData( FieldName ; FieldData ; optType )  PCEM_AddAttachment( FilePath ; Name ) PCEX_GetAttachmentCount)   |  | PCEX_SaveSessionInfo                             |
| PCEM_CreateCustomField( Name ; Type )  PCEM_DeleteCurrentRecord( bPermanent ) PCEX_DeleteCurrentRecord( bPermanent )  PCEM_DeleteRecord( OutlookID ; Permanent ) PCEX_DeleteRecord( EntryID ; bPermanent )  PCEM_Display( ShowInForeground )  PCEM_FilterByLastModified( Timestamp ) PCEX_FilterByLastModified( Timestamp )  PCEM_GetCustomFieldData( FieldName ) PCEX_GetCustomFieldData( FieldName )  PCEM_GetFieldData( FieldName ) PCEX_GetFieldData( FieldName )  PCEM_MoveRecord( FolderPath ) PCEX_NoveRecord( FolderPath )  PCEM_NewRecord( optModule ) PCEX_NewRecord( optModule )  PCEM_OpenRecord( OutlookID ) PCEX_OpenRecord( EntryID )  PCEM_OpenSavedItem( strPath )  PCEM_SaveRecordAsMsg( strPath ) PCEX_SaveRecordAsEML( strPath )  PCEM_SaveRecordAsMsg( strPath ) PCEX_SaveRecordAsEML( strPath )  PCEM_SendMail( To ; Cc ; Bcc ; Subject ; Body ; Attachments ; optUseHTML ) Attachments ; optUseHTML )  PCEM_SetFieldData( FieldName ; Data ) PCEX_SetFieldData( FieldName ; Data )  PCEM_VerifyFieldData( FieldName ; Data ) PCEX_SetFieldData( FieldName ; VerifyData )  PCEM_SetCustomFieldData( FieldName ; Data ; optType )  PCEM_AddAttachment( FilePath ; Name ) PCEX_GetAttachment( FilePath ; Name )  PCEM_GetAttachmentCount   |  | PCEX_LoadSessionInfo( SessionInfo )              |
| PCEM_CreateCustomField( Name ; Type )  PCEM_DeleteCurrentRecord( bPermanent ) PCEM_DeleteCurrentRecord( bPermanent )  PCEM_DeleteRecord( OutlookID ; Permanent ) PCEX_DeleteRecord( EntryID ; bPermanent )  PCEM_Display( ShowInForeground )  PCEM_BilterByLastModified( Timestamp ) PCEX_FilterByLastModified( Timestamp )  PCEM_GetCustomFieldData( FieldName ) PCEX_GetCustomFieldData( FieldName )  PCEM_GetFieldData( FieldName ) PCEX_GetFieldData( FieldName )  PCEM_MoveRecord( FolderPath ) PCEX_MoveRecord( FolderPath )  PCEM_NewRecord( optModule ) PCEX_NewRecord( optModule )  PCEM_OpenRecord( OutlookID ) PCEX_OpenRecord( EntryID )  PCEM_OpenSavedItem( strPath )  PCEM_SaveRecordAsMsg( strPath ) PCEX_SaveRecord( optParam )  PCEM_SaveRecordAsMsg( strPath ) PCEX_SaveRecordAsEML( strPath )  PCEM_SendMail( To ; Cc ; Bcc ; Subject ; Body ; Attachments ; optUseHTML )  PCEM_SetFieldData( FieldName ; Data ) PCEX_SetFieldData( FieldName ; Data )  PCEM_VerifyFieldData( FieldName ; Data ) PCEX_SetCustomFieldData( FieldName ; FieldData ; optType )  PCEM_AddAttachment( FilePath ; Name ) PCEX_AddAttachment( FilePath ; Name )  PCEM_GetAttachmentCount PCEX_GetAttachmentCount)   | PCEM_AddOneOffMember( Name ; Address ;         |  |
| PCEM_DeleteCurrentRecord( bPermanent ) PCEM_DeleteRecord( OutlookID ; Permanent ) PCEM_Display( ShowInForeground ) PCEM_Display( ShowInForeground ) PCEM_FilterByLastModified( Timestamp ) PCEM_GetCustomFieldData( FieldName ) PCEM_GetFieldData( FieldName ) PCEM_GetFieldData( FieldName ) PCEM_MoveRecord( FolderPath ) PCEM_MoveRecord( FolderPath ) PCEM_NewRecord( optModule ) PCEM_OpenRecord( OutlookID ) PCEM_OpenRecord( OutlookID ) PCEM_SaveRecord( optModule ) PCEM_SendMail( To ; Cc ; Bcc ; Subject ; Body ; Attachments ; optUseHTML ) PCEM_SetFieldData( FieldName ; Data ) PCEM_VerifyFieldData( FieldName ; Data ) PCEM_SetCustomFieldData( FieldName ; Data ; OptType ) PCEM_AddAttachment( FilePath ; Name ) PCEX_GetAttachmentCount  PCEM_GetAttachmentCount  PCEX_GetAttachmentCount  PCEX_DeleteCurrentRecord( EntryID ; PCEX_DeleteRecord( EntryID ; bPermanent ) PCEX_GetAttachmentCount  PCEX_GetAttachment( FilePath ; Name ) PCEX_SaveRecord( optModule ) PCEX_SeveRecord( optParam ) PCEX_SeveRecord( optParam ) PCEX_SaveRecord( optParam ) PCEX_SaveRecord( optParam ) PCEX_SaveRecordAsEML( strPath ) PCEX_SendMail( To ; Cc ; Bcc ; Subject ; Body ; Attachments ; optUseHTML ) PCEX_SetFieldData( FieldName ; Data ) PCEX_SetFieldData( FieldName ; Data ) PCEX_VerifyFieldData( FieldName ; VerifyData ) PCEX_VerifyFieldData( FieldName ; FieldData ; FieldType ) PCEX_AddAttachment( FilePath ; Name ) PCEX_GetAttachmentCount  | Type )   |  |
| PCEM_DeleteRecord( OutlookID ; Permanent )  PCEM_Display( ShowInForeground )  PCEM_FilterByLastModified( Timestamp )  PCEM_GetCustomFieldData( FieldName )  PCEM_GetFieldData( FieldName )  PCEM_GetFieldData( FieldName )  PCEM_MoveRecord( FolderPath )  PCEM_NewRecord( FolderPath )  PCEM_NewRecord( optModule )  PCEM_OpenRecord( OutlookID )  PCEM_OpenSavedItem( strPath )  PCEM_SaveRecord( optionalParam )  PCEM_SaveRecordAsMsg( strPath )  PCEM_SendMail( To ; Cc ; Bcc ; Subject ; Body ;  Attachments ; optUseHTML )  PCEM_SetFieldData( FieldName ; Data )  PCEM_VerifyFieldData( FieldName ; Data )  PCEM_SetCustomFieldData( FieldName ; Data ;  optType )  PCEM_GetAttachment( FilePath ; Name )  PCEX_GetCustomFieldData( FieldName )  PCEX_DeleteRecord( EntryID ;  PCEX_GetFieldData( FieldName ; Data ;  PCEX_SetFieldData( FieldName ; Data ;  PCEX_SetCustomFieldData( FieldName ; Data ;  PCEX_SetCustomFieldData( FieldName ; Data ;  PCEX_SetCustomFieldData( FieldName ; FieldData ;  FieldType )  PCEX_GetAttachment( FilePath ; Name )  PCEX_GetAttachmentCount   | PCEM_CreateCustomField( Name ; Type )          |  |
| PCEM_Display( ShowInForeground )  PCEM_FilterByLastModified( Timestamp ) PCEX_FilterByLastModified( Timestamp )  PCEM_GetCustomFieldData( FieldName ) PCEX_GetCustomFieldData( FieldName )  PCEM_GetFieldData( FieldName ) PCEX_GetFieldData( FieldName )  PCEM_MoveRecord( FolderPath ) PCEX_MoveRecord( FolderPath )  PCEM_NewRecord( optModule ) PCEX_NewRecord( optModule )  PCEM_OpenRecord( OutlookID ) PCEX_OpenRecord( EntryID )  PCEM_OpenSavedItem( strPath )  PCEM_SaveRecord( optionalParam ) PCEX_SaveRecord( optParam )  PCEM_SaveRecordAsMsg( strPath ) PCEX_SaveRecordAsEML( strPath )  PCEM_SendMail( To ; Cc ; Bcc ; Subject ; Body ; Attachments ; optUseHTML ) Attachments ; optUseHTML )  PCEM_SetFieldData( FieldName ; Data ) PCEX_SetFieldData( FieldName ; Data )  PCEM_SetCustomFieldData( FieldName ; Data ) PCEX_SetCustomFieldData( FieldName ; FieldData ; optType )  PCEM_AddAttachment( FilePath ; Name ) PCEX_AddAttachment( FilePath ; Name )  PCEM_GetAttachmentCount   | PCEM_DeleteCurrentRecord( bPermanent )         | PCEX_DeleteCurrentRecord( bPermanent )           |
| PCEM_FilterByLastModified( Timestamp ) PCEM_GetCustomFieldData( FieldName ) PCEM_GetFieldData( FieldName ) PCEM_GetFieldData( FieldName ) PCEM_GetFieldData( FieldName ) PCEM_GetFieldData( FieldName ) PCEM_MoveRecord( FolderPath ) PCEM_MoveRecord( FolderPath ) PCEM_NewRecord( optModule ) PCEM_OpenRecord( OutlookID ) PCEM_OpenSavedItem( strPath ) PCEM_SaveRecord( optionalParam ) PCEM_SaveRecord( optionalParam ) PCEM_SaveRecordAsMsg( strPath ) PCEM_SaveRecordAsMsg( strPath ) PCEM_SendMail( To ; Cc ; Bcc ; Subject ; Body ; Attachments ; optUseHTML ) PCEM_SetFieldData( FieldName ; Data ) PCEM_SetFieldData( FieldName ; VerifyData ) PCEM_SetCustomFieldData( FieldName ; Data ; optType ) PCEM_AddAttachment( FilePath ; Name ) PCEM_GetAttachmentCount  | PCEM_DeleteRecord( OutlookID ; Permanent )     | PCEX_DeleteRecord( EntryID ; bPermanent )        |
| PCEM_GetCustomFieldData( FieldName ) PCEM_GetFieldData( FieldName ) PCEM_GetFieldData( FieldName ) PCEM_MoveRecord( FolderPath ) PCEM_MoveRecord( optModule ) PCEM_NewRecord( optModule ) PCEM_OpenRecord( OutlookID ) PCEM_OpenSavedItem( strPath ) PCEM_SaveRecord( optionalParam ) PCEM_SaveRecord( optionalParam ) PCEM_SaveRecordAsMsg( strPath ) PCEM_SendMail( To ; Cc ; Bcc ; Subject ; Body ; Attachments ; optUseHTML ) PCEM_SetFieldData( FieldName ; Data ) PCEM_VerifyFieldData( FieldName ; VerifyData ) PCEM_SetCustomFieldData( FieldName ; Data ; OptType ) PCEM_AddAttachment( FilePath ; Name ) PCEM_GetAttachmentCount  PCEM_GetAttachmentCount  PCEM_GetAttachmentCount  PCEX_GetCustomFieldData( FielPath ; Name ) PCEX_GetAttachmentCount   | PCEM_Display( ShowInForeground )               |  |
| PCEM_GetFieldData( FieldName ) PCEM_MoveRecord( FolderPath ) PCEM_NewRecord( optModule ) PCEM_OpenRecord( OutlookID ) PCEM_OpenSavedItem( strPath ) PCEM_SaveRecord( optionalParam ) PCEM_SaveRecordAsMsg( strPath ) PCEM_SendMail( To ; Cc ; Bcc ; Subject ; Body ; Attachments ; optUseHTML ) PCEM_SetFieldData( FieldName ; Data ) PCEM_SetCustomFieldData( FieldName ; Data ; optType ) PCEM_AddAttachment( FilePath ; Name ) PCEM_GetAttachmentCount  | PCEM_FilterByLastModified( Timestamp )         | PCEX_FilterByLastModified( Timestamp )           |
| PCEM_MoveRecord( FolderPath ) PCEM_NewRecord( optModule ) PCEM_OpenRecord( OutlookID ) PCEM_OpenSavedItem( strPath ) PCEM_SaveRecord( optionalParam ) PCEM_SaveRecord( optionalParam ) PCEM_SendMail( To ; Cc ; Bcc ; Subject ; Body ; Attachments ; optUseHTML ) PCEM_SetFieldData( FieldName ; Data ) PCEM_VerifyFieldData( FieldName ; Data ) PCEM_SetCustomFieldData( FieldName ; Data ; optType ) PCEM_AddAttachment( FilePath ; Name ) PCEM_GetAttachmentCount  PCEM_GetAttachmentCount  PCEX_MoveRecord( optModule ) PCEX_OpenRecord( optModule ) PCEX_SaveRecord( entryID ) PCEX_SaveRecord( optParam ) PCEX_SaveRecord( optParam ) PCEX_SaveRecord( optParam ) PCEX_SetCustomAsiML( strPath ) PCEX_SendMail( To ; Cc ; Bcc ; Subject ; Body ; Attachments ; optUseHTML ) PCEX_SetFieldData( FieldName ; Data ) PCEX_SetFieldData( FieldName ; Data ) PCEX_VerifyFieldData( FieldName ; VerifyData ) PCEX_SetCustomFieldData( FieldName ; FieldData ; FieldType ) PCEX_AddAttachment( FilePath ; Name ) PCEX_GetAttachmentCount  | PCEM_GetCustomFieldData( FieldName )           | PCEX_GetCustomFieldData( FieldName )             |
| PCEM_NewRecord( optModule ) PCEM_OpenRecord( OutlookID ) PCEM_OpenSavedItem( strPath ) PCEM_SaveRecord( optionalParam ) PCEM_SaveRecordAsMsg( strPath ) PCEM_SaveRecordAsMsg( strPath ) PCEM_SendMail( To ; Cc ; Bcc ; Subject ; Body ; Attachments ; optUseHTML ) PCEM_SetFieldData( FieldName ; Data ) PCEM_VerifyFieldData( FieldName ; VerifyData ) PCEM_SetCustomFieldData( FieldName ; Data ; optType ) PCEM_AddAttachment( FilePath ; Name ) PCEM_GetAttachmentCount  PCEM_GetAttachmentCount  PCEX_NewRecord( optModule ) PCEX_SaveRecord( entryID ) PCEX_SaveRecord( optParam ) PCEX_SaveRecord( optParam ) PCEX_SetCustomFeath ) PCEX_SetCustomMail( To ; Cc ; Bcc ; Subject ; Body ; Attachments ; optUseHTML ) PCEX_SetFieldData( FieldName ; Data ) PCEX_SetFieldData( FieldName ; Data ) PCEX_VerifyFieldData( FieldName ; VerifyData ) PCEX_SetCustomFieldData( FieldName ; FieldData ; PCEX_AddAttachment( FilePath ; Name ) PCEX_AddAttachment( FilePath ; Name ) PCEX_GetAttachmentCount)  | PCEM_GetFieldData( FieldName )                 | PCEX_GetFieldData( FieldName )                   |
| PCEM_OpenRecord( OutlookID ) PCEM_OpenSavedItem( strPath )  PCEM_SaveRecord( optionalParam ) PCEM_SaveRecordAsMsg( strPath ) PCEM_SendMail( To ; Cc ; Bcc ; Subject ; Body ; Attachments ; optUseHTML ) PCEM_SetFieldData( FieldName ; Data ) PCEM_SetFieldData( FieldName ; VerifyData ) PCEM_SetCustomFieldData( FieldName ; Data ; optType ) PCEM_AddAttachment( FilePath ; Name ) PCEM_GetAttachmentCount  PCEM_GetAttachmentCount  PCEX_OpenRecord( EntryID )  PCEX_SaveRecord( optParam ) PCEX_SaveRecord( optParam ) PCEX_SetPath ) PCEX_SetPath ) PCEX_SetCustomField( strPath ) PCEX_SendMail( To ; Cc ; Bcc ; Subject ; Body ; Attachments ; optUseHTML ) PCEX_SetFieldData( FieldName ; Data ) PCEX_SetFieldData( FieldName ; Data ) PCEX_VerifyFieldData( FieldName ; VerifyData ) PCEX_SetCustomFieldData( FieldName ; FieldData ; PCEX_AddAttachment( FilePath ; Name ) PCEX_AddAttachment( FilePath ; Name )  | PCEM_MoveRecord( FolderPath )                  | PCEX_MoveRecord( FolderPath )                    |
| PCEM_SaveRecord( optionalParam ) PCEM_SaveRecord( optionalParam ) PCEM_SaveRecordAsMsg( strPath ) PCEM_SendMail( To ; Cc ; Bcc ; Subject ; Body ; Attachments ; optUseHTML ) PCEM_SetFieldData( FieldName ; Data ) PCEM_VerifyFieldData( FieldName ; VerifyData ) PCEM_SetCustomFieldData( FieldName ; Data ; optType ) PCEM_AddAttachment( FilePath ; Name ) PCEM_GetAttachmentCount  PCEM_GetAttachmentCount  PCEX_SaveRecord( optParam ) PCEX_SeveRecordAsEML( strPath ) PCEX_SetCustomField( optParam ) PCEX_SetCustomFiel | PCEM_NewRecord( optModule )                    | PCEX_NewRecord( optModule )                      |
| PCEM_SaveRecord( optionalParam ) PCEM_SaveRecord( optionalParam ) PCEM_SaveRecordAsMsg( strPath ) PCEM_SendMail( To ; Cc ; Bcc ; Subject ; Body ; Attachments ; optUseHTML ) PCEM_SetFieldData( FieldName ; Data ) PCEM_VerifyFieldData( FieldName ; VerifyData ) PCEM_SetCustomFieldData( FieldName ; Data ; optType ) PCEM_AddAttachment( FilePath ; Name ) PCEM_GetAttachmentCount  PCEM_GetAttachmentCount  PCEX_SaveRecord( optParam ) PCEX_SeveRecordAsEML( strPath ) PCEX_SetCustomField( optParam ) PCEX_SetCustomFiel | PCEM_OpenRecord( OutlookID )                   | PCEX_OpenRecord( EntryID )                       |
| PCEM_SaveRecordAsMsg( strPath )  PCEM_SendMail( To ; Cc ; Bcc ; Subject ; Body ; Attachments ; optUseHTML )  PCEM_SetFieldData( FieldName ; Data )  PCEM_VerifyFieldData( FieldName ; VerifyData )  PCEM_SetCustomFieldData( FieldName ; Data ; optType )  PCEM_AddAttachment( FilePath ; Name )  PCEM_GetAttachmentCount  PCEM_SaveRecordAsEML( strPath )  PCEX_SendMail( To ; Cc ; Bcc ; Subject ; Body ; Attachments ; optUseHTML )  PCEX_SetFieldData( FieldName ; Data )  PCEX_SetFieldData( FieldName ; Data )  PCEX_VerifyFieldData( FieldName ; FieldData ; FieldType )  PCEX_AddAttachment( FilePath ; Name )  PCEX_AddAttachment( FilePath ; Name )  PCEX_GetAttachmentCount)  | PCEM_OpenSavedItem( strPath )                  |  |
| PCEM_SendMail( To; Cc; Bcc; Subject; Body; Attachments; optUseHTML)  PCEM_SetFieldData( FieldName; Data)  PCEM_VerifyFieldData( FieldName; VerifyData)  PCEM_SetCustomFieldData( FieldName; Data; optType)  PCEM_AddAttachment( FilePath; Name)  PCEM_GetAttachmentCount  PCEX_SendMail( To; Cc; Bcc; Subject; Body;  Attachments; optUseHTML)  PCEX_SetFieldData( FieldName; Data)  PCEX_SetFieldData( FieldName; Data)  PCEX_SetCustomFieldData( FieldName; FieldData; FieldType)  PCEX_AddAttachment( FilePath; Name)  PCEX_GetAttachmentCount)   | PCEM_SaveRecord( optionalParam )               | PCEX_SaveRecord( optParam )                      |
| PCEM_SendMail( To; Cc; Bcc; Subject; Body; Attachments; optUseHTML)  PCEM_SetFieldData( FieldName; Data)  PCEM_VerifyFieldData( FieldName; VerifyData)  PCEM_SetCustomFieldData( FieldName; Data; optType)  PCEM_AddAttachment( FilePath; Name)  PCEM_GetAttachmentCount  PCEX_SendMail( To; Cc; Bcc; Subject; Body;  Attachments; optUseHTML)  PCEX_SetFieldData( FieldName; Data)  PCEX_SetFieldData( FieldName; Data)  PCEX_SetCustomFieldData( FieldName; FieldData; FieldType)  PCEX_AddAttachment( FilePath; Name)  PCEX_GetAttachmentCount)   | PCEM_SaveRecordAsMsg( strPath )                | PCEX_SaveRecordAsEML( strPath )                  |
| PCEM_SetFieldData( FieldName; Data ) PCEM_VerifyFieldData( FieldName; VerifyData ) PCEM_SetCustomFieldData( FieldName; VerifyData ) PCEM_SetCustomFieldData( FieldName; Data; OptType ) PCEM_AddAttachment( FilePath; Name ) PCEM_GetAttachmentCount PCEM_GetAttachmentCount PCEX_SetFieldData( FieldName; Data ) PCEX_SetCustomFieldData( FieldName; FieldData; FieldType ) PCEX_AddAttachment( FilePath; Name ) PCEX_GetAttachmentCount  |  | PCEX_SendMail( To ; Cc ; Bcc ; Subject ; Body ;  |
| PCEM_VerifyFieldData( FieldName ; VerifyData ) PCEM_SetCustomFieldData( FieldName ; Data ; optType ) PCEM_AddAttachment( FilePath ; Name ) PCEM_GetAttachmentCount  PCEX_VerifyFieldData( FieldName ; VerifyData ) PCEX_SetCustomFieldData( FieldName ; FieldData ; FieldType ) PCEX_AddAttachment( FilePath ; Name ) PCEX_GetAttachmentCount)   | Attachments ; optUseHTML )                     | Attachments ; optUseHTML )                       |
| PCEM_SetCustomFieldData( FieldName; Data; optType )  | PCEM_SetFieldData( FieldName ; Data )          | PCEX_SetFieldData( FieldName ; Data )            |
| optType ) FieldType )  PCEM_AddAttachment( FilePath ; Name ) PCEX_AddAttachment( FilePath ; Name )  PCEM_GetAttachmentCount PCEX_GetAttachmentCount)   | PCEM_VerifyFieldData( FieldName ; VerifyData ) | PCEX_VerifyFieldData( FieldName ; VerifyData )   |
| PCEM_AddAttachment( FilePath ; Name ) PCEX_AddAttachment( FilePath ; Name ) PCEM_GetAttachmentCount PCEX_GetAttachmentCount)   | PCEM_SetCustomFieldData( FieldName ; Data ;    | PCEX_SetCustomFieldData( FieldName ; FieldData ; |
| PCEM_AddAttachment( FilePath ; Name ) PCEX_AddAttachment( FilePath ; Name ) PCEM_GetAttachmentCount PCEX_GetAttachmentCount)   | optType )                                      | FieldType )                                      |
| <u> </u>   |  | PCEX_AddAttachment( FilePath ; Name )            |
| PCEM_GetAttachmentName( Index ; optTruncated )  PCEX_GetAttachmentName( Index )  | PCEM_GetAttachmentCount                        | PCEX_GetAttachmentCount)                         |
|  | PCEM_GetAttachmentName( Index ; optTruncated   | PCEX_GetAttachmentName( Index )                  |
|  | )  |  |
| PCEM_GetAttachmentSize( Index ) PCEX_GetAttachmentSize( Index )  | PCEM_GetAttachmentSize( Index )                | PCEX_GetAttachmentSize( Index )                  |
| PCEM_GetAttachmentCID( Index ) PCEX_GetAttachmentCID( Index )  | PCEM_GetAttachmentCID( Index )                 | PCEX_GetAttachmentCID( Index )                   |
| PCEM_SaveAttachment( FilePath ; Index )  | PCEM_SaveAttachment( FilePath ; Index )        | PCEX_SaveAttachment( FilePath ; Index )          |
| PCEM_EmptyAllDeletedItems PCEX_EmptyAllDeletedItems  | PCEM_EmptyAllDeletedItems                      | PCEX_EmptyAllDeletedItems                        |
| PCEM_GetCurrentFolderName PCEX_GetCurrentFolderName  | PCEM_GetCurrentFolderName                      | PCEX_GetCurrentFolderName                        |
| PCEM_GetFirstFolder PCEX_GetFirstFolder  | PCEM_GetFirstFolder                            | PCEX_GetFirstFolder                              |
| PCEM_GetNextFolder PCEX_GetNextFolder  | PCEM_GetNextFolder                             | PCEX_GetNextFolder                               |

| PCEM_GetFirstRecord                           | PCEX_GetFirstRecord                           |
|---|---|
| PCEM_GetNextRecord                            | PCEX_GetNextRecord                            |
| PCEM_GetDefaultFolderName( ItemType )         | PCEX_GetDefaultFolderName( ItemType )         |
| PCEM_GetFolderID                              | PCEX_GetFolderID                              |
| PCEM_GetFolderType                            | PCEX_GetFolderType                            |
| PCEM_GetRecordCount                           | PCEX_GetRecordCount                           |
| PCEM_NewFolder( Name ; Type )                 | PCEX_NewFolder( Name ; Type )                 |
| PCEM_OpenFolder( FolderPath )                 | PCEX_OpenFolder( FolderPath )                 |
| PCEM_GetFirstRootFolder                       |   |
| PCEM_GetNextRootFolder                        |   |
| PCEM_OpenRootFolder( RootFolderName )         | PCEX_OpenMailbox( MailboxName )               |
| PCEM_OpenSharedFolder( ContactName ; Folder ) | PCEX_OpenSharedFolder( ContactName ; Folder ) |
| PCEM_RPClearRecurrencePattern                 |   |
| PCEM_RPCloseOccurrenceItem(                   |   |
| optSaveChanges )                              |   |
| PCEM_RPCloseRecurrencePattern(                |   |
| optSaveChanges )                              |   |
| PCEM_RPDeleteOccurrence( Date )               |   |
| PCEM_RPGetExceptionCount                      |   |
| PCEM_RPOpenOccurrence( Date )                 |   |
| PCEM_RPOpenRecurrencePattern                  |   |
| PCEM_RPOpenFirstException                     |   |
| PCEM_RPOpenNextException                      |   |
| PCEM_RPOpenExceptionAt( Index )               |   |
| PCEM_GetContactPhoto( optFilePath )           | PCEX_GetContactImage                          |
| PCEM_SetContactImage( Image )                 | PCEX_SetContactImage( Image )                 |
| PCEM_LogSet( On/Off ; optFilePath )           | PCEX_LogSet( On/Off ; optFilePath )           |
| PCEM_LogClear                                 | PCEX_LogClear                                 |
| PCEM_LogMoveToDesktop( strNewName )           | PCEX_LogMoveToDesktop( strNewName )           |

#### Notable Differences:

- 1) The Exchange Manipulator SE plug-in does not have the ability to access and navigate a list of available "root folders" from the Exchange environment, as those root folders are a construct of the Outlook application. As a result, the GetFirstRootFolder and GetNextRootFolder functions are not available in the Exchange Manipulator SE plug-in. Other root folders or "mailboxes" can still be accessed but must be specified explicitly by name when calling PCEX\_OpenMailbox.
- 2) The ability to manipulate recurrence patterns is not currently implemented in the Exchange Manipulator SE plug-in.

### IV. Scripting

The way that data is accessed, manipulated, and transferred between FileMaker and an Exchange account in the Exchange Manipulator SE plug-in is primarily similar to the methodology of the Outlook Manipulator plug-in.

The following is a comparison of scripts showing the similarity of the Exchange Manipulator SE plug-in and the Outlook Manipulator plug-in.

Below is the script for adding a contact named John Smith to a Contacts subfolder called "Summer Friends" using the Outlook Manipulator:

```
# Open the root folder
If [PCEM OpenRootFolder ( Main::gFolder Root ) <> 0]
    Show Custom Dialog ["Warning"; PCEM_GetLastError]
    Exit Script [Text Result:]
End If
# Open the folder (sets the pointer in Outlook to the specified folder)
Set Variable [$FolderID; Value: PCEM_OpenFolder( "/Contacts/Summer Friends" )]
If [$FolderID = "!!ERROR!!" or $FolderID = "?"]
    Show Custom Dialog ["Warning"; PCEM_GetLastError]
    Exit Script [Text Result:]
End If
# New Record
If [PCEM NewRecord( "Contacts" ) <> 0]
    Show Custom Dialog ["Warning"; PCEM_GetLastError]
    Exit Script [Text Result:]
End If
# Set fields; more fields are available, but we're only using a small set.
Set Variable [$result; Value: PCEM_SetFieldData ( "First Name" ; "John" )]
Set Variable [$result; Value: PCEM_SetFieldData ( "Last Name" ; "Smith" )]
Set Variable [$result; Value: PCEM_SetFieldData ("E-mail"; "John.Smith@TestCompany.com"
Set Variable [$result; Value: PCEM_SetFieldData ( "Home Address City"; "Testville" )]
Set Variable [$result; Value: PCEM_SetFieldData ("Home Address Country"; "USA")]
Set Variable [$result; Value: PCEM_SetFieldData ("Home Address Postal Code"; "55555")]
Set Variable [$result; Value: PCEM_SetFieldData ( "Home Address State"; "Testsota" )]
Set Variable [$result; Value: PCEM SetFieldData ("Home Address Street"; "123 Any Lane")]
# Save the record
Set Variable [$OutlookID; Value: PCEM_SaveRecord]
If [$OutlookID = "!!ERROR!!" or $OutlookID = "?"]
    Show Custom Dialog ["Warning"; PCEM_GetLastError]
    Exit Script [Text Result:]
End If
# Store the Outlook ID for future use
Set Field [Contacts::OutlookID; $OutlookID]
```

The following script demonstrates the same process of adding a contact to the "Summer Friends" Contact folder using the Exchange Manipulator SE plug-in:

```
# Open the root mailbox
If [PCEX OpenMailbox ( Main::gFolder Mailbox ) <> 0]
    Show Custom Dialog ["Warning"; PCEX_GetLastError]
    Exit Script [Text Result:]
End If
# Open the folder
Set Variable [$FolderID; Value: PCEX OpenFolder( "/Contacts/Summer Friends" )]
If [$FolderID = "!!ERROR!!" or $FolderID = "?"]
    Show Custom Dialog ["Warning"; PCEX_GetLastError]
    Exit Script [Text Result:]
End If
# New Record
If [PCEX NewRecord( "Contacts" ) <> 0]
    Show Custom Dialog ["Warning"; PCEX_GetLastError]
    Exit Script [Text Result:]
End If
# Set fields; more fields are available, but we're only using a small set.
Set Variable [$result; Value: PCEX_SetFieldData ( "First Name" ; "John" )]
Set Variable [$result; Value: PCEX_SetFieldData ( "Last Name" ; "Smith" )]
Set Variable [$result; Value: PCEX SetFieldData ("E-mail"; "John.Smith@TestCompany.com"
) ]
Set Variable [$result; Value: PCEX SetFieldData ( "Home Address City"; "Testville" )]
Set Variable [$result; Value: PCEX SetFieldData ( "Home Address Country"; "USA" )]
Set Variable [$result; Value: PCEX SetFieldData ( "Home Address Postal Code"; "55555")]
Set Variable [$result; Value: PCEX_SetFieldData ( "Home Address State"; "Testsota")]
Set Variable [$result; Value: PCEX_SetFieldData ( "Home Address Street"; "123 Any Lane")]
# Save the record
Set Variable [$EntryID; Value: PCEX_SaveRecord]
If [$EntryID = "!!ERROR!!" or $EntryID = "?"]
    Show Custom Dialog ["Warning"; PCEX_GetLastError]
    Exit Script [Text Result:]
End If
# Store the Entry ID for future use
Set Field [Contacts::EntryID; $EntryID]
```

As the above scripts show, the functionality of the two plug-ins is quite similar. When converting the scripts and calculation function calls from using Outlook Manipulator to using Exchange Manipulator SE, as mentioned earlier in this document, we highly recommend keeping the original Outlook Manipulator plug-in installed and loaded by FileMaker, so that the new functions can be matched quickly and easily.

If you are planning on using the server-side implementation of the Exchange Manipulator SE plug-in, please refer to the Developer's Guide for tips and tricks on using the Exchange Manipulator SE plug-in in a server environment.

## V. Additional Support

If you require additional support in your migration from Outlook Manipulator to Exchange Manipulator SE for integration with Microsoft Exchange Web Services or would like to start a new integration between FileMaker and Microsoft Exchange Web Services, please contact us via the avenues listed below.

Phone: 760-510-1200

Email: support@productivecomputing.com

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 <a href="https://www.productivecomputing.com/rfq">www.productivecomputing.com/rfq</a>. We are ready to assist and look forward to hearing from you!

<sup>\*</sup>This document was updated on November 15, 2023