

MailEnable .NET Reference Version 10.0

MailEnable Messaging Services
for Microsoft Windows Server



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1 Introduction

This document outlines interfaces that are specifically used for integration with MailEnable via the Microsoft .NET framework.

There are two primary assemblies that facilitate tightly coupled integration with .NET applications. These are referred to as the .NET Administration Assembly (MailEnable.Administration.dll) and the .NET Store Assembly (MailEnable.Store.dll). These files are located in the Mail Enable\bin64 directory.

The .NET Administration Assembly is used to administrate the configuration of MailEnable. E.g.: creation of user mailboxes, creation of domains, postoffices, etc.

The .NET Store Assembly is used to develop applications that need access to the message store and data itself. Such as creating an appointment, task or contact. The .NET Store API does not provide a means of accessing messages themselves.

This API provides a very powerful means of accessing information from the MailEnable message store and making it available to other applications.

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2 .NET Store Assembly

The following section outlines various API functions for managing items within the MailEnable Message Store.

The .NET Assembly hosting these functions is called MailEnable.Store.dll. The namespace of the Store class is MailEnable.Store.

2.1 Store Item Functions

2.1.1 StoreFolder_Open

This function opens a MailEnable Store Folder so that the items within the folder can be accessed. When you open the folder, you can specify the default message class for the folder. As an example, if you wished to access the Inbox folder, you would specify a value of "0" to denote that the folder contains messages.

Syntax:

```
Public Function StoreFolder_Open(ByVal Postoffice As String, ByVal Mailbox As String, ByVal Folder As String, ByVal MessageClass As Integer, Optional ByVal Flags As Integer = 1) As Integer
```

Parameters:

Name	Type	Description
Postoffice	String	The name of the postoffice owning the respective folder to access.
Mailbox	String	The name of the mailbox owning the respective folder to access.
Folder	String	The name of the folder to open. Eg: \Inbox
MessageClass	Integer	Value of 0,1,2,3 to represent Message, Contacts, Calendar, and Task items
Flags	Integer	Optional Value: Must be set to 1

Results:

Name	Type	Description						
ReturnValue	Number	Denotes the result of the called method: <table border="1" data-bbox="587 1541 1251 1637"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Failure</td> </tr> <tr> <td>1</td> <td>Success</td> </tr> </tbody> </table>	Value	Meaning	0	Failure	1	Success
Value	Meaning							
0	Failure							
1	Success							

2.1.2 StoreFolder_FindFirstItem

This function is fetches the first item in a folder.

Syntax:

```
Public Function StoreFolder_FindFirstItem() As Integer
```

Results:

Name	Type	Description						
ReturnValue	Number	Denotes the result of the called method: <table border="1" data-bbox="587 315 1251 412"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Failure</td> </tr> <tr> <td>1</td> <td>Success</td> </tr> </tbody> </table>	Value	Meaning	0	Failure	1	Success
Value	Meaning							
0	Failure							
1	Success							

2.1.3 StoreFolder_FindNextItem

This function is typically called after a StoreFolder_FindFirstItem call to fetch the next store item from the current folder.

Syntax:

```
Public Function StoreFolder_FindNextItem() As Integer
```

Parameters:

None

Results:

Name	Type	Description						
ReturnValue	Number	Denotes the result of the called method: <table border="1" data-bbox="587 1048 1251 1144"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Failure</td> </tr> <tr> <td>1</td> <td>Success</td> </tr> </tbody> </table>	Value	Meaning	0	Failure	1	Success
Value	Meaning							
0	Failure							
1	Success							

2.1.4 StoreFolder_FindClose

This function is used to release any data and state associated with a StoreFolder_Find/ StoreFolder_FindNext operation.

Syntax:

```
Public Function StoreFolder_FindClose() As Integer
```

Parameters:

None

Results:

Name	Type	Description						
ReturnValue	Number	Denotes the result of the called method: <table border="1" data-bbox="587 1854 1251 1951"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Failure</td> </tr> <tr> <td>1</td> <td>Success</td> </tr> </tbody> </table>	Value	Meaning	0	Failure	1	Success
Value	Meaning							
0	Failure							
1	Success							

2.1.5 StoreFolder_SelectItem

Syntax:

```
Public Function StoreFolder_SelectItem(ByVal ItemKey As String) As Integer
```

Parameters:

Name	Type	Description
ItemKey	String	Optional Parameter that specifies a string that identifies the store item in a given store folder. This can typically be left blank.

Results:

Name	Type	Description						
ReturnValue	Number	Denotes the result of the called method: <table border="1" data-bbox="587 813 1251 907"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Failure</td> </tr> <tr> <td>1</td> <td>Success</td> </tr> </tbody> </table>	Value	Meaning	0	Failure	1	Success
Value	Meaning							
0	Failure							
1	Success							

2.1.6 StoreFolder_SelectItemByField

This function allows store items to be located using a designated property/field as the search key. For example, you could use this function to locate an appointment by its “APPOINTMENTUID” property (which is the primary reason that this function exists).

Syntax:

```
Public Function StoreFolder_SelectItemByField(ByVal Field As String, ByVal FieldValue As String) As Integer
```

Parameters:

Name	Type	Description
Field	String	The field/property in which to search
FieldValue	String	The value to be searched for in the field.

Results:

Name	Type	Description						
ReturnValue	Number	Denotes the result of the called method: <table border="1" data-bbox="587 1711 1251 1805"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Failure</td> </tr> <tr> <td>1</td> <td>Success</td> </tr> </tbody> </table>	Value	Meaning	0	Failure	1	Success
Value	Meaning							
0	Failure							
1	Success							

2.1.7 StoreFolder_CreateItem

This function is used to create an item in a given folder. After this call has been made, you can then use the StoreItem_SetProperty function to set the properties of the new item. Once the properties have been set, you can call StoreFolder_Save to save changes.

Syntax:

```
Public Function StoreFolder_CreateItem(ByVal ItemKey As String) As Integer
```

Parameters:

Name	Type	Description
ItemKey	String	Optional Parameter that specifies a string that identifies the store item in a given store folder. This can typically be left blank.

Results:

Name	Type	Description						
ReturnValue	Number	Denotes the result of the called method: <table border="1" data-bbox="587 741 1251 840"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Failure</td> </tr> <tr> <td>1</td> <td>Success</td> </tr> </tbody> </table>	Value	Meaning	0	Failure	1	Success
Value	Meaning							
0	Failure							
1	Success							

2.1.8 StoreFolder_DeleteItem

This function deletes an item from the current store folder. The ItemKey field is used to specify which item to delete.

Syntax:

```
Public Function StoreFolder_DeleteItem(ByVal ItemKey As String) As Integer
```

Parameters:

Name	Type	Description
ItemKey	String	Optional Parameter that specifies a string that identifies the store item in a given store folder. This can typically be left blank.

Results:

Name	Type	Description						
ReturnValue	Number	Denotes the result of the called method: <table border="1" data-bbox="587 1585 1251 1680"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Failure</td> </tr> <tr> <td>1</td> <td>Success</td> </tr> </tbody> </table>	Value	Meaning	0	Failure	1	Success
Value	Meaning							
0	Failure							
1	Success							

2.1.9 StoreFolder_OpenItem

Note: This function is no longer supported. Instead, use StoreFolder_Open, then you can use StoreItem_GetProperty or StoreItem_SetProperty. For StoreItem_SetProperty you pass the UID of the item.

This function is used to access and fetch the properties for an item within a store folder. Typically you would call this function before making calls to StoreItem_GetProperty or StoreItem_SetProperty for the item. It is not

necessary to call StoreFolder_OpenItem if you have already used StoreFolder_FindFirst or StoreFolder_FindNext operation to locate the current store item.

Syntax:

```
Public Function StoreFolder_OpenItem(ByVal Postoffice As String, ByVal Mailbox As String,
ByVal Folder As String, ByVal ItemKey As String, ByVal MessageClass As Integer, ByVal Flags As
Integer) As Integer
```

Parameters:

Name	Type	Description										
Postoffice	String	The name of the postoffice owning the respective folder to access.										
Mailbox	String	The name of the mailbox owning the respective folder to access.										
Folder	String	The name of the folder to open. E.g.: \Inbox										
ItemKey	String	Optional Parameter that specifies a string that identifies the store item in a given store folder. This can typically be left blank.										
MessageClass	Integer	A number indicating the type of item to be opened (0 though to 3 respectively as follows): <table border="1" data-bbox="587 853 1347 1014"> <thead> <tr> <th>Value</th> <th>StoreItem type</th> </tr> </thead> <tbody> <tr> <td>ME_MSG_CLASS_NOTE</td> <td>Message</td> </tr> <tr> <td>ME_MSG_CLASS_CONTACT</td> <td>Contact</td> </tr> <tr> <td>ME_MSG_CLASS_CALENDAR</td> <td>Appointment</td> </tr> <tr> <td>ME_MSG_CLASS_TASK</td> <td>Task</td> </tr> </tbody> </table>	Value	StoreItem type	ME_MSG_CLASS_NOTE	Message	ME_MSG_CLASS_CONTACT	Contact	ME_MSG_CLASS_CALENDAR	Appointment	ME_MSG_CLASS_TASK	Task
Value	StoreItem type											
ME_MSG_CLASS_NOTE	Message											
ME_MSG_CLASS_CONTACT	Contact											
ME_MSG_CLASS_CALENDAR	Appointment											
ME_MSG_CLASS_TASK	Task											
Flags	Integer	Optional Value: Must be set to 1										

Results:

Name	Type	Description						
ReturnValue	Number	Denotes the result of the called method: <table border="1" data-bbox="587 1263 1251 1357"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Failure</td> </tr> <tr> <td>1</td> <td>Success</td> </tr> </tbody> </table>	Value	Meaning	0	Failure	1	Success
Value	Meaning							
0	Failure							
1	Success							

2.1.10 StoreItem_GetProperty

This function returns a named property from the current store item. Named properties are outlined in the MailEnable Store API Reference.

Syntax:

```
Function StoreItem_GetProperty(ByVal PropName As String, Optional ByVal ItemKey As String =
"") As Object
```

Parameters:

Name	Type	Description
PropName	String	The name of the property to be fetched. Property and data types are outlined in the MailEnable Store API Reference.
ItemKey	String	Optional Parameter that specifies a string that identifies the store item

		in a given store folder. This can typically be left blank.
--	--	--

Results:

Name	Type	Description
ReturnValue	Object	Returns an object of the type corresponding to the value being sought (Property and data types are outlined in the MailEnable Store API Reference). Since the value could be a string, double, filetime or long, the return type is designated as “object” to represent all cases. The result will be cast to the specified type of the receiving variable.

2.1.11 StoreItem_SetProperty

This function sets a named property from the current store item.

Syntax:

```
Function StoreItem_SetProperty(ByVal PropName As String, ByVal PropValue As String, Optional ByVal ItemKey As String = "") As Object
```

Parameters:

Name	Type	Description
PropName	String	The name of the property to be set. Property and data types are outlined in the MailEnable Store API Reference.
PropValue	String	The value to which the property will be set.
ItemKey	String	Optional Parameter that specifies a string that identifies the store item in a given store folder. This should be the UID of the item, which is usually the filename. Although an optional parameter, this should be populated.

Results:

Name	Type	Description
ReturnValue	Object	Returns an object of the type corresponding to the value being sought (Property and data types are outlined in the MailEnable Store API Reference). Since the value could be a string, double, filetime or long, the return type is designated as “object” to represent all cases. The result will be cast to the specified type of the receiving variable.

2.1.12 StoreFolder_Save

Saves any details relating to modifications made to items within a designated Store Folder
Flags field should be set to 1.

Syntax:

```
Public Function StoreFolder_Save(ByVal Flags As Integer) As Integer
```

Parameters:

Name	Type	Description
------	------	-------------

Flags	Integer	Optional Value: Must be set to 1
-------	---------	----------------------------------

Results:

Name	Type	Description						
ReturnValue	Number	Denotes the result of the called method: <table border="1" data-bbox="587 443 1251 535"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Failure</td> </tr> <tr> <td>1</td> <td>Success</td> </tr> </tbody> </table>	Value	Meaning	0	Failure	1	Success
Value	Meaning							
0	Failure							
1	Success							

2.1.13 StoreFolder_Close

This function is used to release any data and state associated with a StoreFolder_Open (and subsequent operations).

Syntax:

```
Public Function StoreFolder_Close() As Integer
```

Parameters:

None

Results:

Name	Type	Description						
ReturnValue	Number	Denotes the result of the called method: <table border="1" data-bbox="587 1189 1251 1281"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Failure</td> </tr> <tr> <td>1</td> <td>Success</td> </tr> </tbody> </table>	Value	Meaning	0	Failure	1	Success
Value	Meaning							
0	Failure							
1	Success							

2.2 StoreItem Class

The StoreItem class is a wrapper for a lot of the store functions described above, and may be easier to use depending on your circumstances. The StoreItem class is defined under the MailEnable namespace.

Property	Type	Description				
Folder	String	This is the location of the items you are accessing, which is basically the directory path from the root of the mailbox. For example, this would be “\Contacts” for the default contact folder.				
Postoffice	String	The postoffice the mailbox is in.				
Mailbox	String	The mailbox name.				
MessageClass	Long	The type of store item you are trying to access. These are defined under the StoreItem class as constants: <table border="1" data-bbox="587 1966 1347 2027"> <tbody> <tr> <td>ME_MSG_CLASS_NOTE</td> <td>0</td> </tr> <tr> <td>ME_MSG_CLASS_CONTACT</td> <td>1</td> </tr> </tbody> </table>	ME_MSG_CLASS_NOTE	0	ME_MSG_CLASS_CONTACT	1
ME_MSG_CLASS_NOTE	0					
ME_MSG_CLASS_CONTACT	1					

		ME_MSG_CLASS_CALENDAR	2
		ME_MSG_CLASS_TASK	3
		ME_MSG_CLASS_FILE	4
		ME_MSG_CLASS_VCALENDAR	5
		ME_MSG_CLASS_STICKYNOTE	23
Before you open a folder			

There are various methods available:

Method	Description
OpenFolder	This connects to the folder specified by the Folder property. This needs to be called before trying to access any item.
GenerateUID	This method returns a unique string which can be used for creating new items. You should call this in order to pass to the CreateItem method.
CreateItem	Creates a new store item in the folder. You need to pass this method a unique string to identify it for operations, and this should be generated by the GenerateUID method.
SetProperty	<p>This sets properties on the item that has been opened or accessed. The parameters are:</p> <pre>SetProperty(ByVal ItemKey As String, ByVal PropName As String, ByVal PropValue As Object, Optional ByVal PropType As Integer = ME_PROPTYPE_DETECT) As Long</pre> <p>ItemKey is the UID generated from GenerateUID for new items, or the existing UID for the store item. PropName is the PR string value you are trying to set. These are listed in the MailEnable Store Reference. Examples are PR_MIDDLE_NAME, PR_NICKNAME, etc.</p>
Save	Saves the store item to disk.
CloseFolder	This finishes up access to the folder, and saves the index for the folder. This must be called after any OpenFolder.

To use the class, you would create a new instance of it, then set the following required properties:

Folder
 Postoffice
 Mailbox
 MessageClass

Once these are set, you can then use OpenFolder to make a connect to the folder, perform actions, such as CreateItem, SetProperty, and finalise changes with a Save and call CloseFolder to finish with the connection to the folder. An example of creating a contact would be:

```
Dim oStoreItem As New MailEnable.StoreItem
Dim ItemID As String

oStoreItem.Folder = "\\Contacts"
oStoreItem.Postoffice = "example.com"
oStoreItem.Mailbox = "john"
oStoreItem.MessageClass = MailEnable.StoreItem.ME_MSG_CLASS_CONTACT

if (oStoreItem.OpenFolder() <> 0)
    ItemID = oStoreItem.GenerateUID()
    oStoreItem.CreateItem(ItemID)
    oStoreItem.SetProperty(ItemID, "ME_ITEM_ID", ItemID)
```

```

oStoreItem.SetProperty(ItemID, "PR_GIVEN_NAME", "William")
oStoreItem.SetProperty(ItemID, "PR_MIDDLE_NAME", "Hattersley")
oStoreItem.SetProperty(ItemID, "PR_SURNAME", "Thomas")
oStoreItem.SetProperty(ItemID, "PR_DISPLAY_NAME", "Will H Thomas")

oStoreItem.Save()
oStoreItem.CloseFolder()
End If
    
```

2.3 Directory Functions

2.3.1 Directory_ClearFilter

Syntax:

```
Function Directory_ClearFilter() As Integer
```

Parameters:

None

Results:

Name	Type	Description						
ReturnValue	Number	Denotes the result of the called method: <table border="1" data-bbox="587 1108 1251 1202"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Failure</td> </tr> <tr> <td>1</td> <td>Success</td> </tr> </tbody> </table>	Value	Meaning	0	Failure	1	Success
Value	Meaning							
0	Failure							
1	Success							

2.3.2 Directory_SetFilterProperty

Syntax:

```
Function Directory_SetFilterProperty(ByVal PropName As String, ByVal PropValue As String) As Integer
```

Parameters:

Name	Type	Description
PropName	String	The name of the property to be fetched. Property and data types are outlined in the MailEnable Store API Reference.
PropValue	String	The value to which the property will be set.

Results:

Name	Type	Description						
ReturnValue	Number	Denotes the result of the called method: <table border="1" data-bbox="587 1944 1251 2040"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Failure</td> </tr> <tr> <td>1</td> <td>Success</td> </tr> </tbody> </table>	Value	Meaning	0	Failure	1	Success
Value	Meaning							
0	Failure							
1	Success							

2.3.3 Directory_GetEntry

Syntax:

```
Function Directory_GetEntry() As Integer
```

Parameters:

None

Results:

Name	Type	Description						
ReturnValue	Number	Denotes the result of the called method:						
		<table border="1"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Failure</td> </tr> <tr> <td>1</td> <td>Success</td> </tr> </tbody> </table>	Value	Meaning	0	Failure	1	Success
Value	Meaning							
0	Failure							
1	Success							

2.3.4 DirectoryEntry_Clear

Syntax:

```
Public Function DirectoryEntry_Clear() As Integer
```

Parameters:

None

Results:

Name	Type	Description						
ReturnValue	Number	Denotes the result of the called method:						
		<table border="1"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Failure</td> </tr> <tr> <td>1</td> <td>Success</td> </tr> </tbody> </table>	Value	Meaning	0	Failure	1	Success
Value	Meaning							
0	Failure							
1	Success							

2.3.5 DirectoryEntry_Commit

Syntax:

```
Public Function DirectoryEntry_Commit() As Integer
```

Parameters:

None

Results:

Name	Type	Description						
ReturnValue	Number	Denotes the result of the called method:						
		<table border="1"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Failure</td> </tr> <tr> <td>1</td> <td>Success</td> </tr> </tbody> </table>	Value	Meaning	0	Failure	1	Success
Value	Meaning							
0	Failure							
1	Success							

2.3.6 Directory_CreateEntry

Syntax:

```
Public Function Directory_CreateEntry() As Integer
```

Parameters:

None

Results:

Name	Type	Description						
ReturnValue	Number	Denotes the result of the called method:						
		<table border="1"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Failure</td> </tr> <tr> <td>1</td> <td>Success</td> </tr> </tbody> </table>	Value	Meaning	0	Failure	1	Success
Value	Meaning							
0	Failure							
1	Success							

2.3.7 Directory_OpenEntry

Syntax:

```
Public Function Directory_OpenEntry(ByVal ItemKey As String, Optional ByVal XMLParams As String = "") As Integer
```

Parameters:

Name	Type	Description
ItemKey	String	Optional Parameter that specifies a string that identifies the store item in a given store folder. This can typically be left blank.
XMLParams	String	(Leave Blank)

Results:

Name	Type	Description
ReturnValue	Number	Denotes the result of the called method:

Value	Meaning
0	Failure
1	Success

2.3.8 Directory_SelectEntry

Syntax:

```
Public Function Directory_SelectEntry(ByVal URI As String, Optional ByVal XMLParams As String = "") As Integer
```

Parameters:

Name	Type	Description
URI	String	Optional Parameter that specifies a string that identifies the store item in a given store folder. This can typically be left blank.
XMLParams	String	(Leave Blank)

Results:

Name	Type	Description						
ReturnValue	Number	Denotes the result of the called method: <table border="1" data-bbox="587 1059 1251 1153"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Failure</td> </tr> <tr> <td>1</td> <td>Success</td> </tr> </tbody> </table>	Value	Meaning	0	Failure	1	Success
Value	Meaning							
0	Failure							
1	Success							

2.3.9 Directory_FindFirstEntry

Syntax:

```
Public Function Directory_FindFirstEntry() As Integer
```

Parameters:

None

Results:

Name	Type	Description						
ReturnValue	Number	Denotes the result of the called method: <table border="1" data-bbox="587 1742 1251 1839"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Failure</td> </tr> <tr> <td>1</td> <td>Success</td> </tr> </tbody> </table>	Value	Meaning	0	Failure	1	Success
Value	Meaning							
0	Failure							
1	Success							

2.3.10 Directory_FindNextEntry

Syntax:

```
Public Function Directory_FindNextEntry() As Integer
```

Parameters:

None

Results:

Name	Type	Description						
ReturnValue	Number	Denotes the result of the called method: <table border="1" data-bbox="587 584 1251 678"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Failure</td> </tr> <tr> <td>1</td> <td>Success</td> </tr> </tbody> </table>	Value	Meaning	0	Failure	1	Success
Value	Meaning							
0	Failure							
1	Success							

2.3.11 Directory_FindClose

Syntax:

```
Public Function Directory_FindClose() As Integer
```

Parameters:

None

Results:

Name	Type	Description						
ReturnValue	Number	Denotes the result of the called method: <table border="1" data-bbox="587 1267 1251 1364"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Failure</td> </tr> <tr> <td>1</td> <td>Success</td> </tr> </tbody> </table>	Value	Meaning	0	Failure	1	Success
Value	Meaning							
0	Failure							
1	Success							

2.3.12 Directory_DeleteEntry

Syntax:

```
Public Function Directory_DeleteEntry(ByVal ItemKey As String, Optional ByVal XMLParams As String = "") As Integer
```

Parameters:

Name	Type	Description
ItemKey	String	Optional Parameter that specifies a string that identifies the store item in a given store folder. This can typically be left blank.
XMLParams	String	(Leave Blank)

Results:

Name	Type	Description						
ReturnValue	Number	Denotes the result of the called method: <table border="1" data-bbox="587 315 1251 414"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Failure</td> </tr> <tr> <td>1</td> <td>Success</td> </tr> </tbody> </table>	Value	Meaning	0	Failure	1	Success
Value	Meaning							
0	Failure							
1	Success							

2.3.13 DirectoryEntry_SetProperty

Syntax:

```
Function DirectoryEntry_SetProperty(ByVal PropName As String, ByVal PropValue As Object,
Optional ByVal ItemKey As String = "") As Long
```

Parameters:

Name	Type	Description
PropName	String	The name of the property to be set. Property and data types are outlined in the MailEnable Store API Reference.
PropValue	String	The value to which the property will be set.
ItemKey	String	Optional Parameter that specifies a string that identifies the store item in a given store folder. This can typically be left blank.

Results:

Name	Type	Description						
ReturnValue	Number	Denotes the result of the called method: <table border="1" data-bbox="587 1245 1251 1344"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Failure</td> </tr> <tr> <td>1</td> <td>Success</td> </tr> </tbody> </table>	Value	Meaning	0	Failure	1	Success
Value	Meaning							
0	Failure							
1	Success							

2.3.14 DirectoryEntry_GetProperty

Syntax:

```
Function DirectoryEntry_GetProperty(ByVal PropName As String, Optional ByVal ItemKey As String
= "") As Object
```

Parameters:

Name	Type	Description
PropName	String	The name of the property to be fetched. Property and data types are outlined in the MailEnable Store API Reference.
ItemKey	String	Optional Parameter that specifies a string that identifies the store item in a given store folder. This can typically be left blank.

Results:

Name	Type	Description
ReturnValue	Object	Returns an object of the type corresponding to the value being sought (Property and data types are outlined in the MailEnable Store API Reference).. Since the value could be a string, double, filetime or long, the return type is designated as "object" to represent all cases. The result will be cast to the specified type of the receiving variable.

2.4 Examples

Create Contact Example:

This will create a new contact entry in the mailbox for "Mark" of postoffice "MailEnable"

```

Private Sub CreateContact()
    Dim oStoreItem As New MailEnable.Store
    If (oStoreItem.StoreFolder_Open("MailEnable", "Mark", "\Contacts",
oStoreItem.ME_MSG_CLASS_CONTACT, 1) = 1) Then
        If oStoreItem.StoreFolder_CreateItem("") = 1 Then
            oStoreItem.StoreItem_SetProperty("PR_GIVEN_NAME", "William")
            oStoreItem.StoreItem_SetProperty("PR_MIDDLE_NAME", "Hattersley")
            oStoreItem.StoreItem_SetProperty("PR_SURNAME", "Thomas")
            oStoreItem.StoreItem_SetProperty("PR_DISPLAY_NAME", "Will H Thomas")
            oStoreItem.StoreItem_SetProperty("PR_DISPLAY_NAME_PREFIX", "Mr.")
            oStoreItem.StoreItem_SetProperty("PR_NICKNAME", "Billyo")
            oStoreItem.StoreItem_SetProperty("PR_EMAIL_ADDRESS", "wht@MailEnable.com")
            oStoreItem.StoreItem_SetProperty("PR_OFFICE_TELEPHONE_NUMBER", "12345678")
            oStoreItem.StoreItem_SetProperty("PR_HOME_TELEPHONE_NUMBER", "98765432")
            oStoreItem.StoreItem_SetProperty("PR_CELLULAR_TELEPHONE_NUMBER", "0412345678")
            oStoreItem.StoreItem_SetProperty("PR_COMPANY_NAME", "MailEnable")
            oStoreItem.StoreItem_SetProperty("PR_DEPARTMENT_NAME", "IT")
            oStoreItem.StoreItem_SetProperty("PR_NOTE", "This is a note")
            oStoreItem.StoreFolder_Save(1)
        End If
        oStoreItem.StoreFolder_Close()
    End If
End Sub

```

Create Appointment Example

This will add a new appointment with the properties specified

```

Private Sub CreateAppointment()
    Dim oStoreItem As New MailEnable.Store
    If (oStoreItem.StoreFolder_Open("MailEnable", "Mark", "\Calendar",
oStoreItem.ME_MSG_CLASS_CALENDAR, 1) = 1) Then
        If oStoreItem.StoreFolder_CreateItem("") = 1 Then
            Dim APIRes As Long = oStoreItem.StoreItem_SetProperty("PR_SUBJECT", "New
Appointment")
            oStoreItem.StoreItem_SetProperty("PR_START_DATE", Now())
            oStoreItem.StoreItem_SetProperty("PR_END_DATE", DateAdd(DateInterval.Hour, 3,
Now()))
            oStoreItem.StoreItem_SetProperty("PR_CLASS", "APPOINTMENT.PERSONAL")
            oStoreItem.StoreItem_SetProperty("PR_BODY", "This is the body")
            oStoreItem.StoreItem_SetProperty("PR_BNP_AllDayEvent", 0)
            oStoreItem.StoreItem_SetProperty("PR_LOCATION", "Office")
            oStoreItem.StoreItem_SetProperty("PR_BNP_BusyStatus", 2)
            oStoreItem.StoreItem_SetProperty("PR_SENSITIVITY", 2)
            oStoreItem.StoreItem_SetProperty("PR_BNP_ReminderSet", 1)
            oStoreItem.StoreItem_SetProperty("PR_BNP_ReminderMinutesBeforeStart", 0)
        End If
    End If
End Sub

```

```

        Dim SaveResult As Long = oStoreItem.StoreFolder_Save(1)
    End If
    oStoreItem.StoreFolder_Close()
End If
End Sub

```

Create Task Example

This will add a new task with the properties specified

```

Private Sub CreateTask()
    Dim oStoreItem As New MailEnable.Store
    If (oStoreItem.StoreFolder_Open("MailEnable", "Mark", "\Tasks",
oStoreItem.ME_MSG_CLASS_TASK, 1) = 1) Then
        If oStoreItem.StoreFolder_CreateItem("") = 1 Then
            oStoreItem.StoreItem_SetProperty("PR_IMPORTANCE", 1)
            oStoreItem.StoreItem_SetProperty("PR_BNP_Status", 3)
            oStoreItem.StoreItem_SetProperty("PR_SENSITIVITY", 2)
            oStoreItem.StoreItem_SetProperty("PR_BNP_StartDate", Now())
            oStoreItem.StoreItem_SetProperty("PR_BNP_DueDate", DateAdd(DateInterval.Hour,
3, Now()))

            oStoreItem.StoreItem_SetProperty("PR_BNP_Mileage", 1)
            oStoreItem.StoreItem_SetProperty("PR_BNP_PercentComplete", 43)
            oStoreItem.StoreItem_SetProperty("PR_BNP_Complete", 0)
            oStoreItem.StoreItem_SetProperty("PR_BNP_TotalWork", 20)
            oStoreItem.StoreItem_SetProperty("PR_BNP_ActualWork", 9)
            oStoreItem.StoreItem_SetProperty("PR_SUBJECT", "subject")
            oStoreItem.StoreItem_SetProperty("PR_BODY", "le body")

            Dim SaveResult As Long = oStoreItem.StoreFolder_Save(1)
        End If
        oStoreItem.StoreFolder_Close()
    End If
End Sub

```

List Directory Example

This will list all of the email address and display name entries in the "MAILENABLE" postoffice via MessageBoxes

```

Private Sub ListDirectory()
    Dim oStoreItem As New MailEnable.Store
    oStoreItem.Directory_ClearFilter()
    oStoreItem.Directory_SetFilterProperty(oStoreItem.gc_MEPROP_POSTOFFICE, "MAILENABLE")
    Dim APIResult As Long = 1
    If (oStoreItem.Directory_FindFirstEntry() = 1) Then
        Do
            MsgBox(oStoreItem.DirectoryEntry_GetProperty("", oStoreItem.gc_MEPROP_EMAIL) &
":" & oStoreItem.DirectoryEntry_GetProperty("", oStoreItem.gc_MEPROP_DISPLAYNAME))
            Loop While oStoreItem.Directory_FindNextEntry()
        End If
    End Sub

```

Fetch Directory Entry Example:

This opens the entry for Mark@MailEnable and prints the company name property

```

Sub FetchDirectoryEntry()
    Dim szDLI As String = "VCF://MailEnable/Mark/$VCFROOT/[Mark]"
    Dim sPropVal As String
    Dim oStore As New MailEnable.Store
    If (oStore.Directory_OpenEntry(szDLI, "<PROTOCOL>VCF</PROTOCOL>")) Then
        sPropVal = oStore.DirectoryEntry_GetProperty("", "PR_COMPANY_NAME")
        If (sPropVal <> "") Then
            MsgBox("Result: " + sPropVal)
        End If
    End If
End Sub

```

List Messages Example:

This lists the subject of each message in the inbox of Mark@MailEnable.

```

Private Sub ListMessages()
    Dim APIResult As Long
    Dim oStore As New MailEnable.Store
    APIResult = oStore.StoreFolder_Open("MailEnable", "Mark", "\Inbox", oStore.ME_MSG_CLASS_NOTE, 1)
    If oStore.StoreFolder_FindFirstItem() = 1 Then
        Do
            Console.WriteLine(oStore.StoreItem_GetProperty("PR_SUBJECT"))
            Loop While (oStore.StoreFolder_FindNextItem() = 1)
        End If
        APIResult = oStore.StoreFolder_FindClose()
        APIResult = oStore.StoreFolder_Close()
    End Sub

```

Update Messages Example:

This goes through the inbox of Mark@MailEnable and changes the subject of each message to “Updated”.

```

Private Sub UpdateMessages()
    Dim APIResult As Long
    Dim oStore As New MailEnable.Store
    APIResult = oStore.StoreFolder_Open("MailEnable", "Mark", "\Inbox", oStore.ME_MSG_CLASS_NOTE, 1)
    If oStore.StoreFolder_FindFirstItem() = 1 Then
        Console.WriteLine(oStore.StoreItem_SetProperty("PR_SUBJECT", "Updated"))
        oStore.StoreFolder_Save(1)
    End If
    APIResult = oStore.StoreFolder_FindClose()
    APIResult = oStore.StoreFolder_Close()
End Sub

```

3 .NET Management Assembly

MailEnable's .NET Management Assembly (MailEnable.Administration.dll) allows you to manage the system configuration of a MailEnable mail server. As an example, you can use the .NET Management Assembly to programmatically create new mail users or add a new e-mail address to an existing mail user.

3.1 Address Map Administration

The AddressMap class is responsible for controlling the list of e-mail addresses that MailEnable is capable of receiving e-mail for.

3.1.1 MailEnable AddressMap Class

Class

MailEnable.Administration.AddressMap

Properties

Wildcard	Name	Type	Description
Yes	Account	String(1024)	The account/post office
Yes	SourceAddress	String(1024)	The address the email was sent to
Yes	DestinationAddress	String(1024)	The address to send the email to
Yes	Scope	String(1024)	Not used

Functions

GetAddressMap() As Long

FindFirstAddressMap() As Long

FindNextAddressMap() As Long

AddAddressMap() As Long

RemoveAddressMap() As Long

EditAddressMap(ByVal NewAccount As String, ByVal NewSourceAddress As String, ByVal NewDestinationAddress As String, ByVal NewScope As String) As Long

Remarks

Functions return a value of 1 for success and 0 for failure. Other status codes may be returned as information on errors. The AddressMap class is used to direct the incoming mail to the correct connector. Connectors would add their own entries to this file, as the MTA uses this to determine which connector is responsible for it.

Catch-all addresses are handled in MailEnable by the use of a wildcard in the email local part, for example *@example.com. Wildcards have to be treated carefully when using the API, as they are used as wildcards, so when deleting a catchall address map it has to be renamed before removal, since removing a catchall address with * in it will remove all addresses for the domain. So before removing do an Edit to rename the email address, then remove this renamed entry.

Example

```
Dim IResult, oAddressMap
Dim oAddressMap As New MailEnable.Administration.AddressMap
oAddressMap.Account = ""
oAddressMap.DestinationAddress = ""
```

```

oAddressMap.Scope = ""
oAddressMap.SourceAddress = "[SMTP:test@mailenable.com]"

IResult = oAddressMap.GetAddressMap()

If IResult = 0 Then
MsgBox "Failed to get address."
Else
MsgBox "Address is sent to: " & oAddressMap.DestinationAddress
End If

```

3.2 Authentication Administration

3.2.1 MailEnable Login Class

The MailEnable Login Class is responsible for managing the authentication credentials of MailEnable users. Whenever a new mailbox is created, an equivalent entry should be added to the Login class so they can authenticate to access the mailbox.

Class

MailEnable.Administration.Login

Properties

Wildcard	Name	Type	Description								
Yes	Username	String(64)	Username								
Yes	Status	Long	0=Disabled, 1=Enabled								
Yes	Password	String(64)	Password. When you are editing a password using the EditLogin method, leave this blank.								
Yes	Account	String(128)	Account/post office								
Yes	Rights	String(128)	<table border="1"> <thead> <tr> <th>Value</th> <th>Details</th> </tr> </thead> <tbody> <tr> <td>USER</td> <td>General user</td> </tr> <tr> <td>ADMIN</td> <td>Administrator of a postoffice</td> </tr> <tr> <td>SYSADMIN</td> <td>System administrator</td> </tr> </tbody> </table>	Value	Details	USER	General user	ADMIN	Administrator of a postoffice	SYSADMIN	System administrator
Value	Details										
USER	General user										
ADMIN	Administrator of a postoffice										
SYSADMIN	System administrator										
Yes	Description	String(1024)	Unused								
	LoginAttempts	Long	Unused								
	LastAttempt	Long	Unused								
	LastSuccessfulLogin	Long	Unused								

Functions

GetLogin() As Long
 FindFirstLogin() As Long
 FindNextLogin() As Long
 AddLogin() As Long

RemoveLogin() As Long

EditLogin(ByVal NewUserName As String, ByVal NewStatus As Long, ByVal NewPassword As String, ByVal NewAccount As String, ByVal NewDescription As String, ByVal NewLoginAttempts As Long, ByVal NewLastAttempt As Long, ByVal NewLastSuccessfulLogin As Long, ByVal NewRights As String) As Long

Remarks

Functions return non-zero for success, zero for failure. The authentication class is used to authenticate a users username and password combination. It can, and is, used for a variety of services and connectors. For example, the POP service would use it to validate a user logon.

Use only 30 characters maximum for the password. This is because encrypted passwords take up over twice as many characters, even though the provider will always return the unencrypted passwords. Remember that the encryption key in the registry must be correct, or the password returned will be wrong when using encrypted passwords.

You are able to pattern match on the following properties:

- Username
- Status
- Password
- Account
- Rights
- Description

3.3 Directory Administration

3.3.1 MailEnable Directory Class

The MailEnable Directory class provides a basic interface for adding items to the Postoffice Directory.

The Store Provider interface is preferred as a means of adding items to the directory, however this interface will suffice for adding basic entries to the Directory.

Class

MailEnable.Directory

Properties

Wildcard	Name	Type	Description
	DirectoryEntryID	String(256)	
	DisplayName	String(256)	
	Account	String(128)	Postoffice
	MailAddress	String(1024)	
	DirectoryLocatorID	String(2048)	String URI used to locate additional properties of the directory item
	EntryType	Long	
	Host	String(128)	

3.3.1.1 .NET Programming Examples

Iterating:

```
Public Sub ListDirectory()  
    Dim sPostoffice As String = "MailEnable"  
    Dim oDirectory As New MailEnable.Directory  
    Dim sDisplayName As String  
    Dim sDirectoryEntryID As String  
    Dim sResolvedAddress As String  
  
    oDirectory.DirectoryEntryID = ""  
    oDirectory.DisplayName = ""  
    oDirectory.Account = sPostoffice  
    oDirectory.MailAddress = ""  
    oDirectory.DirectoryLocatorID = ""  
    oDirectory.EntryType = -1  
    oDirectory.Host = ""  
    oDirectory.SortOrder = ""  
    oDirectory.Filter = ""  
  
    If oDirectory.FindFirstDirectory() = 1 Then  
        Do  
            sDisplayName = oDirectory.DisplayName  
            sDirectoryEntryID = oDirectory.DirectoryEntryID  
            sResolvedAddress = oDirectory.MailAddress  
  
            oDirectory.DirectoryEntryID = ""  
            oDirectory.DisplayName = ""  
            oDirectory.Account = sPostoffice  
            oDirectory.MailAddress = ""  
            oDirectory.DirectoryLocatorID = ""  
            oDirectory.EntryType = -1  
            oDirectory.Host = ""  
            oDirectory.SortOrder = ""  
            oDirectory.Filter = ""  
  
        Loop While (oDirectory.FindNextDirectory() = 1)  
    End If  
End Sub
```

Adding:

```

Public Const gc_PR_DISPLAY_NAME As String = "PR_DISPLAYNAME"
Public Const gc_PR_EMAIL_ADDRESS As String = "PR_EMAIL_ADDRESS"
Public Const gc_PR_DLID As String = "PR_DLID"

Public Const gc_MEPROP_POSTOFFICE_TAG As String = "POSTOFFICE"
Public Const gc_MEPROP_ACCOUNT_TAG As String = "ACCOUNT"
Public Const gc_MEPROP_DIRECTORYID_TAG As String = "DIRECTORYID"
Public Const gc_MEPROP_DLID_TAG As String = "DLID"
Public Const gc_MEPROP_MAILBOX_TAG As String = "MAILBOX"
Public Const gc_MEPROP_FOLDER_TAG As String = "FOLDER"
Public Const gc_MEPROP_PROTOCOL_TAG As String = "PROTOCOL"
Public Const gc_MEPROP_EMAIL_TAG As String = "EMAIL"
Public Const gc_MEPROP_DISPLAYNAME_TAG As String = "DISPLAYNAME"
Public Const gc_MEPROP_NICKNAME_TAG As String = "PR_NICKNAME"
Public Const gc_MEPROP_EMAIL_BNP As String = "PR_EMAIL_ADDRESS"

Public Const gc_PROP_ITEMID As String = "ME_ITEM_ID"
Public Const gc_PROP_COMPANY_NAME As String = "PR_COMPANY_NAME"
Public Const gc_PROP_EMAIL_ADDRESS As String = "PR_EMAIL_ADDRESS"
Public Const gc_PROP_BNP_EmailAddress As String =
"PR_BNP_EmailAddress"
Public Const gc_PROP_DEPARTMENT_NAME As String =
"PR_DEPARTMENT_NAME"
Public Const gc_PROP_DISPLAY_NAME As String = "PR_DISPLAY_NAME"
Public Const gc_PROP_GIVEN_NAME As String = "PR_GIVEN_NAME"
Public Const gc_PROP_MIDDLE_NAME As String = "PR_MIDDLE_NAME"
Public Const gc_PROP_NORMALIZED_SUBJECT As String =
"PR_NORMALIZED_SUBJECT"
Public Const gc_PROP_SUBJECT As String = "PR_SUBJECT"
Public Const gc_PROP_SURNAME As String = "PR_SURNAME"
Public Const gc_PROP_NICKNAME As String = "PR_NICKNAME"
Public Const gc_PROP_TITLE As String = "PR_TITLE"
Public Const gc_PROP_DISPLAY_NAME_PREFIX As String =
"PR_DISPLAY_NAME_PREFIX"
Public Const gc_PROP_CELLULAR_TELEPHONE_NUMBER As String =
"PR_CELLULAR_TELEPHONE_NUMBER"
Public Const gc_PROP_HOME_TELEPHONE_NUMBER As String =
"PR_HOME_TELEPHONE_NUMBER"
Public Const gc_PROP_OFFICE_TELEPHONE_NUMBER As String =
"PR_OFFICE_TELEPHONE_NUMBER"
Public Const gc_PROP_STATE_OR_PROVINCE As String =
"PR_STATE_OR_PROVINCE"
Public Const gc_PROP_COUNTRY As String = "PR_COUNTRY"
Public Const gc_PROP_STREET_ADDRESS As String = "PR_STREET_ADDRESS"
Public Const gc_PROP_LOCALITY As String = "PR_LOCALITY"
Public Const gc_PROP_POSTAL_CODE As String = "PR_POSTAL_CODE"

Public Const gc_PROP_ASSISTANT As String = "PR_ASSISTANT"
Public Const gc_PROP_PAGER_TELEPHONE_NUMBER As String =
"PR_PAGER_TELEPHONE_NUMBER"
Public Const gc_PROP_BUSINESS_FAX_NUMBER As String =
"PR_BUSINESS_FAX_NUMBER"
Public Const gc_PROP_BIRTHDAY As String = "PR_BIRTHDAY"
Public Const gc_PROP_BUSINESS_HOME_PAGE As String =
"PR_BUSINESS_HOME_PAGE"
Public Const gc_PROP_MSMESSANGER As String = "PR_MSMESSANGER"

Public Const gc_PROP_NOTE As String = "PR_NOTE"

```

Public Function AddDirectoryEntry() As Integer

```

    Dim sPostoffice As String = "MailEnable"
    Dim oDirectory As New MailEnable.Directory
    Dim sFullName As String = "Joe Smith"
    Dim sMailAddress As String = "joe.smith@mydomain.com"

    oDirectory = New MailEnable.Directory
    oDirectory.Account = sPostoffice
    oDirectory.DirectoryLocatorID = ""
    oDirectory.DisplayName = sFullName
    oDirectory.DirectoryEntryID = ""
    oDirectory.MailAddress = sMailAddress

    GetFieldValues() ' get all the required field values from the
    form

    Dim APIResult As Integer = 0

    oDirectory.DirectoryEntry_Clear()
    oDirectory.DirectoryEntry_SetProperty("",
gc_MEPROP_POSTOFFICE_TAG, sPostoffice)
    oDirectory.DirectoryEntry_SetProperty("", gc_PROP_GIVEN_NAME,
FirstName)
    oDirectory.DirectoryEntry_SetProperty("", gc_PROP_MIDDLE_NAME,
MiddleName)
    oDirectory.DirectoryEntry_SetProperty("", gc_PROP_SURNAME,
LastName)
    oDirectory.DirectoryEntry_SetProperty("", gc_PROP_TITLE, Title)
    oDirectory.DirectoryEntry_SetProperty("",
gc_MEPROP_DISPLAYNAME_TAG, FullName)
    oDirectory.DirectoryEntry_SetProperty("",
gc_MEPROP_NICKNAME_TAG, NickName) 'NICKNAME
    oDirectory.DirectoryEntry_SetProperty("",
gc_PROP_EMAIL_ADDRESS, EMail)
    oDirectory.DirectoryEntry_SetProperty("", gc_MEPROP_EMAIL_TAG,
EMail)
    oDirectory.DirectoryEntry_SetProperty("", gc_PROP_COMPANY_NAME,
Business)

    oDirectory.DirectoryEntry_SetProperty("",
gc_PROP_STREET_ADDRESS, StreetAddress)
    oDirectory.DirectoryEntry_SetProperty("",
gc_PROP_OFFICE_TELEPHONE_NUMBER, PhoneW)
    oDirectory.DirectoryEntry_SetProperty("",
gc_PROP_HOME_TELEPHONE_NUMBER, PhoneH)
    oDirectory.DirectoryEntry_SetProperty("",
gc_PROP_CELLULAR_TELEPHONE_NUMBER, PhoneM)
    oDirectory.DirectoryEntry_SetProperty("", gc_PROP_LOCALITY,
Locality)
    oDirectory.DirectoryEntry_SetProperty("",
gc_PROP_STATE_OR_PROVINCE, State)
    oDirectory.DirectoryEntry_SetProperty("", gc_PROP_POSTAL_CODE,
Postcode)
    oDirectory.DirectoryEntry_SetProperty("", gc_PROP_COUNTRY,
Country)

    oDirectory.DirectoryEntry_SetProperty("", gc_PROP_BIRTHDAY,
TempBirthday)

```

```

        oDirectory.DirectoryEntry_SetProperty("",
gc_PROP_DEPARTMENT_NAME, Department)
        oDirectory.DirectoryEntry_SetProperty("", gc_PROP_ASSISTANT,
Assistant)
        oDirectory.DirectoryEntry_SetProperty("",
gc_PROP_BUSINESS_HOME_PAGE, HomePage)
        oDirectory.DirectoryEntry_SetProperty("",
gc_PROP_BUSINESS_FAX_NUMBER, PhoneF)
        oDirectory.DirectoryEntry_SetProperty("",
gc_PROP_PAGER_TELEPHONE_NUMBER, PhoneP)
        oDirectory.DirectoryEntry_SetProperty("", gc_PROP_MSMESSSENGER,
MSMessenger)

        oDirectory.DirectoryEntry_SetProperty("", gc_PROP_NOTE, Notes)

APIResult = oDirectory.Directory_CreateEntry()

If APIResult <> 1 Then
    ' Failed to create Directory entry
    Return 0
End If

Return 1

End Function

```

Removing:

```

Public Function RemoveDirectory() As Integer
    Dim sPostoffice As String = "MailEnable"
    Dim oDirectory As New MailEnable.Directory
    Dim sDirectoryEntryID As String =
"89AC5AD04E324C039AD3A4BDEDDFE832.VCF"

    oDirectory.Directory_ClearFilter()
    oDirectory.Directory_SetFilterProperty("POSTOFFICE",
sPostoffice)
    oDirectory.Directory_SetFilterProperty("DIRECTORYID",
sDirectoryEntryID)

    If oDirectory.Directory_GetEntry() = 1 Then
        If oDirectory.Directory_DeleteEntry() <> 1 Then
            ' Delete failed!
            Return 0
        End If

        Return 1
    Else
        ' Can't locate Directory entry
        Return 0
    End If

    Return 0

End Function

```

3.4 List Server Administration

3.4.1 MailEnable List Class

Class

MailEnable.Administration.List

Properties

Wildcard	Name	Type	Description
	Description	String(256)	List description
	AccountName	String(128)	Account/post office
Yes	ListName	String(128)	Name of list
	ListType	Long	0=Unmoderated, 1=Moderated
	ListStatus	Long	0=Disabled, 1=Enabled
	ModeratorAddress	String(128)	Moderator address
	HeaderAnnotationStatus	Long	0=no header, 1=Include header file
	HeaderAnnotation	String(256)	Name of header file with no extension
	FooterAnnotationStatus	Long	0=no footer, 1=Include footer file
	FooterAnnotation	String(256)	Name of footer file with no extension
	ListAddress	String(256)	Address of list
<i>(Reserved)</i>	SubscribeMessageFileStatus	Long	
<i>(Reserved)</i>	SubscribeMessageFile	String(256)	
<i>(Reserved)</i>	UnsubscribeMessageFileStatus	Long	
<i>(Reserved)</i>	UnsubscribeMessageFile	String(256)	
<i>(Reserved)</i>	SubjectSuffixStatus	Long	
<i>(Reserved)</i>	SubjectSuffix	String(256)	
	SubjectPrefixStatus	Long	0=Default - List Name 1=Don't Modify Subject 2=Use Custom Prefix
	SubjectPrefix	String(256)	
<i>(Reserved)</i>	Owner	String(256)	
	HelpMessageFileStatus	Long	Will send a list of commands back to the user when they send help as the password help
<i>(Reserved)</i>	HelpMessageFile	String(256)	
<i>(Reserved)</i>	RemovalMessageFileStatus	Long	
<i>(Reserved)</i>	RemovalMessageFile	String(256)	
	ReplyToMode	Long	0=Replies to List 1=Replies to Sender 2=Replies to Moderator
<i>(Reserved)</i>	MaxMessageSize	Long	
	PostingMode	Long	0=Members can Post 1=Anyone can Post

			2=Password Protected Posting
	SubscriptionMode	Long	0=Anyone can Subscribe 1=Subscription is disabled
(Reserved)	AuthenticationMode	Long	
	Password	String(256)	Contains the password if list is password protected- Password is enclosed in [braces] in the subject
(Reserved)	DigestMode	Long	
(Reserved)	DigestMailbox	String(256)	
(Reserved)	DigestAnnotationMode	Long	
(Reserved)	DigestAttachmentMode	Long	
(Reserved)	DigestMessageSeparationMode	Long	
(Reserved)	DigestSchedulingStatus	Long	
(Reserved)	DigestSchedulingMode	Long	
(Reserved)	DigestSchedulingInterval	Long	
(Reserved)	FromAddressMode	Long	

Note: Items marked as reserved may not have been implemented in current releases and are provided for forward compatibility.

Functions

FindFirstList() As Long

FindNextList() As Long

AddList() As Long

GetList() As Long

RemoveList() As Long

EditList(ByVal NewDescription As String, ByVal NewAccountName As String, ByVal NewListName As String, ByVal NewListType As Long, ByVal NewListStatus As Long, ByVal NewHeaderAnnotationStatus As Long, ByVal NewHeaderAnnotation As String, ByVal NewFooterAnnotationStatus As Long, ByVal NewFooterAnnotation As String, ByVal NewModeratorAddress As String, ByVal NewListAddress As String, Optional ByVal NewSubscribeMessageFileStatus As Long = -1, Optional ByVal NewSubscribeMessageFile As String = "(Nil)", Optional ByVal NewUnsubscribeMessageFileStatus As Long = -1, Optional ByVal NewUnsubscribeMessageFile As String = "(Nil)", Optional ByVal NewSubjectSuffixStatus As Long = -1, Optional ByVal NewSubjectSuffix As String = "(Nil)", Optional ByVal NewSubjectPrefixStatus As Long = -1, Optional ByVal NewSubjectPrefix As String = "(Nil)", Optional ByVal NewOwner As String = "(Nil)", Optional ByVal NewHelpMessageFileStatus As Long = -1, Optional ByVal NewHelpMessageFile As String = "(Nil)", Optional ByVal NewRemovalMessageFileStatus As Long = -1, Optional ByVal NewRemovalMessageFile As String = "(Nil)", Optional ByVal NewReplyToMode As Long = -1, Optional ByVal NewMaxMessageSize As Long = -1, Optional ByVal NewPostingMode As Long = -1, Optional ByVal NewSubSubscriptionMode As Long = -1, Optional ByVal NewAuthenticationMode As Long = -1, Optional ByVal NewPassword As String = "(Nil)", Optional ByVal NewDigestMode As Long = -1, Optional ByVal NewDigestMailbox As String = "(Nil)", Optional ByVal NewDigestAnnotationMode As Long = -1, Optional ByVal NewDigestAttachmentMode As Long = -1, Optional ByVal NewDigestMessageSeparationMode As Long = -1, Optional ByVal NewDigestSchedulingStatus As Long = -1, Optional ByVal NewDigestSchedulingMode As Long = -1, Optional ByVal NewDigestSchedulingInterval As Long = -1, Optional ByVal NewFromAddressMode As Long = -1) As Long

Remarks

Functions return a value of 1 for success and 0 for failure. Other status codes may be returned as information on errors. The header and footer file needs to be located in the annotations subdirectory of the post office configuration directory.

3.4.1.1 .NET Programming Examples

Iterating:

```

Public Sub ListLists()
    Dim sPostoffice As String = "MailEnable"
    Dim oList As New MailEnable.Administration.List
    Dim sListName As String
    Dim sListDesc As String

    oList.AccountName = sPostoffice
    oList.ListName = ""
    oList.ListStatus = -1
    oList.ListType = -1

    If oList.FindFirstList() = 1 Then
        Do
            sListName = oList.ListName
            sListDesc = oList.Description

            oList.AccountName = sPostoffice
            oList.ListName = ""
            oList.ListStatus = -1
            oList.ListType = -1

        Loop While (oList.FindNextList() = 1)
    End If
End Sub

```

Adding:

```

Public Function CreateAddressMapsForAllDomains(ByVal Postoffice As
String, ByVal AliasName As String, ByVal TargetAddress As String) As
Integer

    Dim oDomain As New MailEnable.Administration.Domain
    Dim oAddressMap As New MailEnable.Administration.AddressMap
    Dim sMappedAddress As String

    oDomain.AccountName = Postoffice
    oDomain.DomainName = ""
    oDomain.Status = -1
    oDomain.DomainRedirectionHosts = ""
    oDomain.DomainRedirectionStatus = -1

    If oDomain.FindFirstDomain() = 1 Then
        Do
            sMappedAddress = "[SMTP:" & AliasName & "@" &
oDomain.DomainName & "]"

            oAddressMap.Account = Postoffice
            oAddressMap.DestinationAddress = TargetAddress
            oAddressMap.SourceAddress = sMappedAddress
            oAddressMap.Scope = 0

            If oAddressMap.AddAddressMap = 1 Then
                ' Address Map added
            End If
        Do
    End If

```

```

        ' Now let's try to get the next domain
        oDomain.AccountName = Postoffice
        oDomain.DomainName = ""
        oDomain.Status = -1
        oDomain.DomainRedirectionHosts = ""
        oDomain.DomainRedirectionStatus = -1

        Loop While (oDomain.FindNextDomain() = 1)
    Else
        Return 0
    End If

    Return 1
End Function

Public Function AddList() As Integer

    Dim sPostoffice As String = "MailEnable"
    Dim oList As New MailEnable.Administration.List
    Dim sListName As String = "TestList"
    Dim sListDesc As String = "Some description about this List."
    Dim sModeratorAddr As String =
"[SMTP:moderator@mailenable.com]"
    Dim sDefaultAddr As String = "[SMTP:testlist@mailenable.com]"
    Dim sHeaderAnnotation As String = "[Technical Group]"
    Dim sFooterAnnotation As String = "The Technical Team."

    Dim bEnabled As Boolean = True

    oList.AccountName = sPostoffice
    oList.ListName = sListName
    oList.Description = sListDesc

    If bEnabled Then
        oList.ListStatus = 1
    Else
        oList.ListStatus = 0
    End If

    oList.ListType = 0      ' (0 - Unmoderated, 1 - Moderated)
    oList.ModeratorAddress = sModeratorAddr
    oList.ListAddress = sDefaultAddr

    oList.HeaderAnnotationStatus = 1      ' 0 - Disabled, 1 - Enabled
    oList.HeaderAnnotation = sListName & "-HEADER"
    oList.FooterAnnotationStatus = 1      ' 0 - Disabled, 1 - Enabled
    oList.FooterAnnotation = sListName & "-FOOTER"

    If (oList.AddList() = 1) Then
        oList.SetHeader(sPostoffice, sListName,
sHeaderAnnotation)
        oList.SetFooter(sPostoffice, sListName,
sFooterAnnotation)

        If CreateAddressMapsForAllDomains(sPostoffice, sListName,
"[LS:" & sPostoffice & "/" & sListName & "]") = 1 Then
            ' Address Maps created for all domains
            Return 1
        End If
    End If

```

```
        Return 2
    End If

    Return 0

End Function
```

Removing:

```
Public Function RemoveList() As Integer
    Dim sPostoffice As String = "MailEnable"
    Dim oList As New MailEnable.Administration.List
    Dim sListName As String = "TestList"

    oList.AccountName = sPostoffice
    oList.ListName = sListName
    oList.ListStatus = -1
    oList.ListType = -1

    If oList.RemoveList() = 1 Then
        ' Remove the Address Map...
        Dim oAddressMap As New
MailEnable.Administration.AddressMap
        oAddressMap.Account = sPostoffice
        oAddressMap.DestinationAddress = "[LS:" & sPostoffice &
"/" & sListName & "]"
        oAddressMap.SourceAddress = ""
        oAddressMap.Scope = ""

        If oAddressMap.RemoveAddressMap() <> 1 Then
            ' Address Map removal failed!
            Return 2
        End If

        Return 1
    End If

    Return 0
End Function
```

3.4.2 MailEnable ListMember Class

Class

MailEnable.Administration.ListMember

Properties

Wildcard	Name	Type	Description
Yes	Address	String(256)	The address of the member
	AccountName	String(128)	Unused
	ListName	String(128)	Unused
	ListMemberType	Long	Unused
	Status	Long	Unused

Functions

FindFirstListMember() As Long

FindNextListMember() As Long

AddListMember() As Long

GetListMember() As Long

RemoveListMember() As Long

EditListMember(NewAddress, NewAccountName, NewListName, NewListMemberType, NewStatus) As Long

Remarks

Functions return a value of 1 for success and 0 for failure. Other status codes may be returned as information on errors.

Adding:

```
Dim oListMember As New MailEnable.Administration.ListMember

oListMember.AccountName = Postoffice
oListMember.Address = "[SMTP:bob@example.com]"
oListMember.ListMemberType = 0
oListMember.ListName = "mylist"
oListMember.Status = 1

oListMember.AddListMember()
```

3.5 Post Office Administration

3.5.1 MailEnable Group Class

Class

MailEnable.Administration.Group

Properties

Wildcard	Name	Type	Description
Yes	RecipientAddress	String(1024)	The address of the group

	Postoffice	String(128)	The account/post office
Yes	GroupName	String(128)	Name of the group
	GroupFile	String(128)	Unused
	GroupStatus	Long	0=Disabled, 1=Enabled

Functions

FindFirstGroup() As Long

FindNextGroup() As Long

AddGroup() As Long

GetGroup() As Long

RemoveGroup() As Long

EditGroup(ByVal NewRecipientAddress As String, ByVal NewPostoffice As String, ByVal NewGroupName As String, ByVal NewGroupFile As String, ByVal NewGroupStatus As Long) As Long

Remarks

Functions return a value of 1 for success and 0 for failure. Other status codes may be returned as information on errors.

3.5.1.1 .NET Programming Examples
Iterating:

```
Public Sub ListGroups()

    Dim sPostoffice As String = "MailEnable"
    Dim oGroup As New MailEnable.Administration.Group
    Dim sGroupName As String
    Dim sRecipientAddress As String
    Dim iGroupStatus As Integer

    oGroup.Postoffice = sPostoffice
    oGroup.GroupFile = ""
    oGroup.GroupName = ""
    oGroup.GroupStatus = -1
    oGroup.RecipientAddress = ""
    oGroup.Host = ""

    If oGroup.FindFirstGroup() = 1 Then
        Do
            ' Group Name
            sGroupName = oGroup.GroupName

            ' Enabled status
            iGroupStatus = oGroup.GroupStatus

            ' Group Recipient Address
            sRecipientAddress = oGroup.RecipientAddress

            oGroup.Postoffice = sPostoffice
            oGroup.GroupFile = ""
            oGroup.GroupName = ""
            oGroup.GroupStatus = -1
            oGroup.RecipientAddress = ""
        Loop
    End If
End Sub
```

```

        Loop While (oGroup.FindNextGroup() = 1)
    End If
End Sub

```

Adding:

```

Public Function CreateAddressMapsForAllDomains(ByVal Postoffice As
String, ByVal AliasName As String, ByVal TargetAddress As String) As
Integer

```

```

    Dim oDomain As New MailEnable.Administration.Domain
    Dim oAddressMap As New MailEnable.Administration.AddressMap
    Dim sMappedAddress As String

```

```

    oDomain.AccountName = Postoffice
    oDomain.DomainName = ""
    oDomain.Status = -1
    oDomain.DomainRedirectionHosts = ""
    oDomain.DomainRedirectionStatus = -1

```

```

    If oDomain.FindFirstDomain() = 1 Then

```

```

        Do

```

```

            sMappedAddress = "[SMTP:" & AliasName & "@" &
oDomain.DomainName & "]"

```

```

            oAddressMap.Account = Postoffice
            oAddressMap.DestinationAddress = TargetAddress
            oAddressMap.SourceAddress = sMappedAddress
            oAddressMap.Scope = 0

```

```

            If oAddressMap.AddAddressMap = 1 Then
                ' Address Map added!

```

```

            End If

```

```

            ' Now let's try to get the next domain

```

```

            oDomain.AccountName = Postoffice
            oDomain.DomainName = ""
            oDomain.Status = -1
            oDomain.DomainRedirectionHosts = ""
            oDomain.DomainRedirectionStatus = -1

```

```

        Loop While (oDomain.FindNextDomain() = 1)

```

```

    Else

```

```

        Return 0

```

```

    End If

```

```

    Return 1

```

```

End Function

```

```

Public Function AddGroup() As Integer

```

```

Dim sPostoffice As String = "MailEnable"
Dim oGroup As New MailEnable.Administration.Group
Dim sGroupName As String = "Group1"
Dim bEnabled As Boolean = True

oGroup.Postoffice = sPostoffice
oGroup.GroupName = sGroupName
oGroup.RecipientAddress = "[SF:" & sPostoffice & "/" &
sGroupName & "]"

If bEnabled Then
    oGroup.GroupStatus = 1
Else
    oGroup.GroupStatus = 0
End If

If oGroup.AddGroup() = 1 Then ' Success!
    '
    ' Now add the address maps
    '
    If CreateAddressMapsForAllDomains(sPostoffice,
oGroup.GroupName, oGroup.RecipientAddress) = 1 Then

        End If
    End If
End Function

```

Removing:

```

Public Function RemoveGroup() As Integer
Dim sPostoffice As String = "MailEnable"
Dim oGroup As New MailEnable.Administration.Group
Dim sGroupName As String = "Group1"
Dim bEnabled As Boolean = True

oGroup.Postoffice = sPostoffice
oGroup.GroupName = sGroupName
oGroup.RecipientAddress = ""
If bEnabled Then
    oGroup.GroupStatus = 1
Else
    oGroup.GroupStatus = 0
End If

If oGroup.RemoveGroup() = 1 Then ' Success!
    '
    ' We need to delete any address maps
    '
    Dim oAddressMap As New
MailEnable.Administration.AddressMap
oAddressMap.Account = sPostoffice
oAddressMap.DestinationAddress = "[SF:" & sPostoffice &
"/" & sGroupName & "]"
oAddressMap.SourceAddress = ""
oAddressMap.Scope = ""

    If (oAddressMap.RemoveAddressMap() <> 1) Then
        ' Address Map removal failed!...
        Return 0
    End If
End If
End Function

```

```

        End If
    Return 1
End If
End Function

```

3.5.2 MailEnable Group Member Class

Class

MailEnable.Administration.GroupMember

Properties

Wildcard	Name	Type	Description
Yes	Address	String(256)	The address of the member
	Postoffice	String(128)	Unused
	Mailbox	String(128)	Unused

Functions

FindFirstGroupMember() As Long
 FindNextGroupMember() As Long
 AddGroupMember() As Long
 GetGroupMember() As Long
 RemoveGroupMember() As Long
 EditGroupMember(ByVal NewAddress As String, ByVal NewPostoffice As String, ByVal NewMailbox As String) As Long

Remarks

Functions return a value of 1 for success and 0 for failure. Other status codes may be returned as information on errors.

3.5.3 MailEnable Mailbox Class

Class

MailEnable.Administration.Mailbox

Properties

Wildcard	Name	Type	Description
	Postoffice	String(128)	The account/post office
Yes	Mailbox	String(64)	The name of the mailbox
	RedirectAddress	String(512)	The address list to redirect all inbound email to
	RedirectStatus	Long	When the mailbox is redirected. 0=Disabled 1=Enabled 2=Redirect and keep a copy of the message in the mailbox

	Status	Long	0=Disabled, 1=Enabled										
	Limit	Long	Size limit (in kilobytes) of the mailbox										
	Size	Long	<p>Current size of mailbox in kilobytes. This will either be the inbox folder size or all the mail folders, depending on the quota enumeration settings configured in the administration program. Usually in order to return the current usage for a mailbox you would pass -1 when using the mailbox functions. Other options are available which may increase performance:</p> <table border="1"> <thead> <tr> <th>Value</th> <th>Setting</th> </tr> </thead> <tbody> <tr> <td>-1</td> <td>Calculate and return the current disk usage.</td> </tr> <tr> <td>-2</td> <td>Don't return the mailbox size if the mailbox has unlimited quota.</td> </tr> <tr> <td>-3</td> <td>Only get the mailbox size from cached value (the DIRSIZE.TMP file), do not do any calculations.</td> </tr> <tr> <td>-4</td> <td>Don't return the mailbox size.</td> </tr> </tbody> </table>	Value	Setting	-1	Calculate and return the current disk usage.	-2	Don't return the mailbox size if the mailbox has unlimited quota.	-3	Only get the mailbox size from cached value (the DIRSIZE.TMP file), do not do any calculations.	-4	Don't return the mailbox size.
Value	Setting												
-1	Calculate and return the current disk usage.												
-2	Don't return the mailbox size if the mailbox has unlimited quota.												
-3	Only get the mailbox size from cached value (the DIRSIZE.TMP file), do not do any calculations.												
-4	Don't return the mailbox size.												

Functions

FindFirstMailbox() As Long

FindNextMailbox() As Long

AddMailbox() As Long

GetMailbox() As Long

RemoveMailbox() As Long

EditMailbox(ByVal NewPostoffice As String, ByVal NewMailbox As String, ByVal NewRedirectAddress As String, ByVal NewRedirectStatus As Long, ByVal NewStatus As Long, ByVal NewLimit As Long, ByVal NewSize As Long) As Long

Remarks

Functions return a value of 1 for success and 0 for failure. Other status codes may be returned as information on errors.

RedirectAddress is a semi-colon delimited list of MailEnable formatted email address, e.g.:
[SMTP:address1@domain.com];[SMTP:address2@domain.com]

3.5.3.1 .NET Programming Examples

Iterating:

```
Public Sub ListMailboxes ()

    Dim sPostoffice As String = "MailEnable"
    Dim oMailbox As New MailEnable.Administration.Mailbox
    Dim sMailboxName As String

    oMailbox.Postoffice = sPostoffice
    oMailbox.MailboxName = ""
    oMailbox.RedirectAddress = ""
    oMailbox.RedirectStatus = -1
    oMailbox.Size = -1
    oMailbox.Limit = -1
    oMailbox.Status = -1
    oMailbox.Host = ""
```

```

If oMailbox.FindFirstMailbox = 1 Then
    Do
        sMailboxName = oMailbox.MailboxName

        oMailbox.Postoffice = sPostoffice
        oMailbox.MailboxName = ""
        oMailbox.RedirectAddress = ""
        oMailbox.RedirectStatus = -1
        oMailbox.Size = -1
        oMailbox.Limit = -1
        oMailbox.Status = -1

        Loop While (oMailbox.FindNextMailbox() = 1)

    End If

End Sub

```

Adding:

```

Public Function AddMailbox()
    Dim sPostoffice As String = "MailEnable"
    Dim oMailbox As New MailEnable.Administration.Mailbox
    Dim oLogin As New MailEnable.Administration.Login
    Dim sMailboxName As String = "Test"
    Dim sPassword As String = "password"
    Dim sRights As String = "USER" ' USER - User, ADMIN -
Administrator

    oLogin.Account = sPostoffice
    oLogin.LastAttempt = -1
    oLogin.LastSuccessfulLogin = -1
    oLogin.LoginAttempts = -1
    oLogin.Password = ""
    oLogin.Rights = ""
    oLogin.Status = -1
    oLogin.UserName = sMailboxName & "@" & sPostoffice

    ' If the login does not exist we need to create it
    If oLogin.GetLogin() = 0 Then

        oLogin.Account = sPostoffice
        oLogin.LastAttempt = 0
        oLogin.LastSuccessfulLogin = 0
        oLogin.LoginAttempts = 0
        oLogin.Password = sPassword
        oLogin.Rights = sRights

        oLogin.Status = 1 ' 0 - Disabled, 1 - Enabled
        oLogin.UserName = sMailboxName & "@" & sPostoffice

        If oLogin.AddLogin <> 1 Then
            ' Error adding the Login
            Return 0
        End If
    End If

```

```

End If

' Now we create the mailbox
oMailbox.Postoffice = sPostoffice
oMailbox.MailboxName = sMailboxName

' Set the Redirect Address if applicable
'oMailbox.RedirectStatus = 1
'oMailbox.RedirectAddress = sRedirectAddress

oMailbox.Size = 0
oMailbox.Limit = -1      ' -1 - Unlimited OR size value (in KB)
oMailbox.Status = 1

If oMailbox.AddMailbox() <> 1 Then
    ' Failed to add mailbox
    Return 0
End If

' Now we need to add the Address Map entries for the Account
Dim oAddressMap As New MailEnable.Administration.AddressMap
oAddressMap.Account = sPostoffice
oAddressMap.DestinationAddress = "[SF:" & sPostoffice & "/" &
sMailboxName & "]"
oAddressMap.SourceAddress = "[SMTP:" & sMailboxName &
"@mailenable.com]"
oAddressMap.Scope = 0

If oAddressMap.AddAddressMap() <> 1 Then
    ' Failed to add Address Map for some reason!
    Return 2
End If

Return 1

End Function

```

Removing:

```

Public Function RemoveMailbox() As Integer

    Dim sPostoffice As String = "MailEnable"
    Dim oMailbox As New MailEnable.Administration.Mailbox
    Dim sMailboxName As String = "Test"

    oMailbox.Postoffice = sPostoffice
    oMailbox.MailboxName = sMailboxName
    oMailbox.RedirectAddress = ""
    oMailbox.RedirectStatus = -1
    oMailbox.Size = -1
    oMailbox.Limit = -1
    oMailbox.Status = -1

    If oMailbox.RemoveMailbox() = 1 Then
        ' Now remove the corresponding Address Map entry
        Dim oAddressMap As New
MailEnable.Administration.AddressMap
        oAddressMap.Account = sPostoffice

```

```

        oAddressMap.DestinationAddress = "[SF:" & sPostoffice &
"/" & sMailboxName & "]"
        oAddressMap.SourceAddress = ""
        oAddressMap.Scope = ""

        If oAddressMap.RemoveAddressMap() = 0 Then
            ' Failed to remove Address Map for some reason!
            Return 0
        End If

        Return 1
    End If

    Return 0

End Function
    
```

3.5.4 MailEnable Postoffice Class

Class

MailEnable.Administration.Postoffice

3.5.4.1 Properties

Wildcard	Name	Type	Description
Yes	Name	String(128)	Name of the postoffice
	Status	Long	0=Disabled, 1=Enabled
Yes	Account	String(64)	Account for the postoffice. Currently make this the same as the postoffice name.

Functions

GetMailRootDirectory()

GetConfigurationDirectory() As String

FindFirstPostoffice() As Long

FindNextPostoffice() As Long

AddPostoffice() As Long

GetPostoffice() As Long

RemovePostoffice() As Long

EditPostoffice(ByVal NewName As String, ByVal NewStatus As Long, ByVal NewAccount As String) As Long

Remarks

Functions return a value of 1 for success and 0 for failure. Other status codes may be returned as information on errors. Currently, set the Account to be the same as the postoffice name. You are able to match on the following properties:

Name

Account

3.5.5 SMTP Administration

Class

MailEnable.Administration.Domain

Properties

Wildcard	Name	Type	Description
Yes	DomainName	String(512)	Domain name
	Status	Long	0=Disabled, 1=Enabled
	DomainRedirectionStatus	Long	Whether redirection for domain is active 0=Disabled 1=Enabled 2=Redirect from authenticated senders only
	DomainRedirectionHosts	String(2048)	List of hosts to redirect to. This is a comma delimited list of the host addresses.
Yes	AccountName	String(128)	Account/post office

Functions

AddDomain() As Long

GetDomain() As Long

EditDomain(ByVal NewDomainName As String, ByVal NewStatus As Long, ByVal NewDomainRedirectionStatus As Long, ByVal NewDomainRedirectionHosts As String, ByVal NewAccountName As String) As Long

RemoveDomain() As Long

FindFirstDomain() As Long

FindNextDomain() As Long

Remarks

Functions return a value of 1 for success and 0 for failure. Other status codes may be returned as information on errors.

3.5.5.1 .NET Programming Examples

Iterating:

```
Public Sub ListDomains()
    Dim oDomain As New MailEnable.Administration.Domain
    Dim oListItem As ListItem
    Dim sPostoffice As String = "MailEnable"
    Dim sDomainName As String

    oDomain.AccountName = sPostoffice
    oDomain.DomainName = ""
    oDomain.Status = -1
    oDomain.DomainRedirectionHosts = ""
    oDomain.DomainRedirectionStatus = -1

    If oDomain.FindFirstDomain() = 1 Then
```

```

        Do
            sDomainName = oDomain.DomainName

            oDomain.AccountName = sPostoffice
            oDomain.DomainName = ""
            oDomain.Status = -1
            oDomain.DomainRedirectionHosts = ""
            oDomain.DomainRedirectionStatus = -1
        Loop While (oDomain.FindNextDomain() = 1)
    End If
End Sub

```

Adding:

```

Public Function AddDomain() As Integer

    Dim oDomain As New MailEnable.Administration.Domain
    Dim sPostoffice As String = "MailEnable"
    Dim sDomainName As String = "TestDomain"
    Dim bEnabled As Boolean = True
    Dim sRedirectionHost As String = "www.myredirectedhost.com"

    '
    ' RedirectionStatus can be 1 of:
    '     0 - Disabled, 1 - Enabled, 2 - Authenticated
    '
    Dim iRedirectionStatus As Integer = 1

    oDomain.AccountName = sPostoffice
    oDomain.DomainName = sDomainName
    oDomain.Status = -1
    oDomain.DomainRedirectionHosts = ""
    oDomain.DomainRedirectionStatus = -1

    If oDomain.GetDomain() <> 1 Then
        ' Domain doesn't exist so we're free to add it

        If bEnabled Then
            oDomain.Status = 1
        Else
            oDomain.Status = 0
        End If

        oDomain.DomainRedirectionHosts = sRedirectionHost
        oDomain.DomainRedirectionStatus = iRedirectionStatus

        If oDomain.AddDomain() = 1 Then
            ' Add the relevant address map entries (if
            applicable)...
            Dim oAddressMap As
            MailEnable.Administration.AddressMap
            Dim sPostmasterAccount As String = "Postmaster"
            Dim sAbuseAccount As String = "Abuse"
            Dim sCatchAllAccount As String = "CatchAll"

            '
            ' Add the Postmaster Address Map
            '

```

```
oAddressMap = New
MailEnable.Administration.AddressMap
oAddressMap.Account = sPostoffice
oAddressMap.DestinationAddress = "[SF:" &
sPostoffice & "/" & sPostmasterAccount & "]"
oAddressMap.SourceAddress = "[SMTP:Postmaster@" &
sDomainName & "]"
oAddressMap.Scope = "0"

If oAddressMap.AddAddressMap() <> 1 Then
    ' Can't add address map for some reason...
End If

oAddressMap = Nothing
```

```

'
' Add the Abuse Address Map
'
oAddressMap = New
MailEnable.Administration.AddressMap

oAddressMap.Account = sPostoffice
oAddressMap.DestinationAddress = "[SF:" &
sPostoffice & "/" & sAbuseAccount & "]"
oAddressMap.SourceAddress = "[SMTP:Abuse@" &
sDomainName & "]"
oAddressMap.Scope = "0"

If oAddressMap.AddAddressMap() <> 1 Then
    ' Can't add address map for some reason...
End If

oAddressMap = Nothing

'
' Add the Catch-All Address Map
'
oAddressMap = New
MailEnable.Administration.AddressMap

oAddressMap.Account = sPostoffice
oAddressMap.DestinationAddress = "[SF:" &
sPostoffice & "/" & sCatchAllAccount & "]"
oAddressMap.SourceAddress = "[SMTP:*@" &
sDomainName & "]"
oAddressMap.Scope = "0"

If oAddressMap.AddAddressMap() <> 1 Then
    ' Can't add address map for some reason...
End If

oAddressMap = Nothing
Return 1

Else
    ' Domain add failed!
    Return 0
End If

Else
    ' Domain already exists!
    Return 0
End If

End Function

```

Removing:


```

Public Function RemoveDomain() As Integer
    Dim oDomain As New MailEnable.Administration.Domain
    Dim sPostoffice As String = "MailEnable"
    Dim sDomainName As String = "TestDomain"

    oDomain.AccountName = sPostoffice
    oDomain.DomainName = sDomainName
    oDomain.Status = -1
    oDomain.DomainRedirectionHosts = ""
    oDomain.DomainRedirectionStatus = -1

    If oDomain.RemoveDomain() = 1 Then
        ' Domain removed successfully
        Return 1
    Else
        ' Domain removal failed
        Return 0
    End If
End Function

```

3.5.6 MailEnable SystemOption Class

Class

MailEnable.Administration.SystemOption

Properties

Wildcard	Name	Type	Description								
	Scope	Long	0=System Wide Value 1=Post Office Value 2=Mailbox Value								
	Query	String(512)	Query string to denote the URI for the value to be retrieved/set (according to the value): <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <table border="1"> <thead> <tr> <th>Value</th> <th>Setting</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Category</td> </tr> <tr> <td>1</td> <td>PostofficeName</td> </tr> <tr> <td>2</td> <td>Postoffice/Mailbox</td> </tr> </tbody> </table> </div> <p>If you are trying to read or set a postoffice level option, you would use the postoffice name in this property. If you are after a mailbox level option, you would format this as postoffice/mailbox. The value you use for a system wide option would depend on the option itself. Please see the valid option list for what to use for these.</p>	Value	Setting	0	Category	1	PostofficeName	2	Postoffice/Mailbox
Value	Setting										
0	Category										
1	PostofficeName										
2	Postoffice/Mailbox										
	ValueName	String(512)	The name of the value or setting to be set/retrieved								
	Value	String(2048)	The value of the setting either to be set or retrieved.								

Functions

SetOption() As Long

GetOption() As Long

Example:

This example outlines how to enable Web Administration for a Post Office:

```
Dim oMEOption As New MailEnable.Administration.SystemOption
oMEOption.Query = "MailEnable" 'Postoffice Name
oMEOption.Scope = 1
oMEOption.ValueName = "WebAdmin-Enabled"
oMEOption.Value = 1 '1=On, 0=Off
oMEOption.SetOption
Set oMEOption = Nothing
```

Remarks

Functions return a value of 1 for success and 0 for failure. Other status codes may be returned as information on errors. For options which have the same ValueName for a postoffice or mailbox level option, the postoffice option will always overwrite the mailbox level one. For example, if you are setting the SMTP usage restriction for a postoffice, then the mailbox values will never be checked. Only if the postoffice level option is disabled will the mail server check the mailbox level option for usage restrictions.

This API results in settings being stored in the following locations:

- Postoffice specific settings are stored in the POSTOFFICE.SYS file under the Mail Enable\Config\Postoffices\[postoffice] directory.
- Mailbox specific settings are stored in the Mail Enable\Config\Postoffices\[postoffice]\mailboxes\[mailbox].sys file.
- System settings are stored in the {CategoryName}.SYS file under the Mail Enable\Config directory.

The following table contains a list of the value names and their respective meanings for Postoffice level options:

Postoffice Value Name	Description
MappedDomainEnabled	Determines whether the specified postoffice is mapped to a Windows Domain
MappedDomain	Specifies the Windows Security Realm to be used for Integrated Authentication
UPNEnabled	Specifies whether Integrated Authentication for this postoffice supports UPN (User@securitydomain) formatted usernames
WindowsAuthenticationEnabled	Specifies whether the postoffice is mapped to a Windows Security Realm for Integrated Authentication
WindowsAccountAutoCreation	Specifies whether accounts are to be automatically created if the user has authenticated using Integrated Authentication
WebAdmin-Enabled	Specifies whether Web Administration is available for ADMIN and SYSADMIN users of this Post Office.
WebAdmin-CanEditMailboxes	Determines whether ADMIN and SYSADMIN users are able to edit details of Mailboxes
WebAdmin-MaxMailboxes	Determines the maximum number of Mailboxes that can be added via Web Administration for this Post Office.
WebAdmin-DefaultMailboxSize	Determines the maximum Mailbox Quota Size that can be specified when creating or modifying a Mailbox
WebAdmin-CanEditMailboxSize	Determines whether ADMIN or SYSADMIN users are able to specify Mailbox sizes
WebAdmin-CanEditLists	Determines whether ADMIN or SYSADMIN users are able to edit the details for lists
WebAdmin-MaxLists	Determines the maximum number of lists that can be managed by an ADMIN or SYSADMIN user

WebAdmin-MaxListMembers	Determines the maximum number of list members that can be assigned to a list
WebAdmin-CanEditDomains	Specifies whether ADMIN or SYSADMIN users are able to configure domain details via Web Administration
SMTP-Inbound-Message-UsageRestrictionEnabled	0=Postoffice has no throughput restrictions 1=Postoffice has message throughput restrictions
SMTP-Inbound-Message-UsageRestriction	The number of messages per hour the postoffice can send
SMTP-Inbound-Message-Usage	The number of messages that have been sent since a certain time. This is formatted as: time:count Time is when the message usage count began and is the number of seconds elapsed since midnight, January 1, 1970. Count is the number of recipients sent to by the postoffice since Time. The mail services will reset the time value to the current time when it is more than 60 minutes old. If a recipient could not be sent to since it has reached the usage restriction value, then the count is still increased.

The following table contains a list of the value names and their respective meanings for mailbox specific values:

Mailbox Value Name	Description
ActiveSync	0=ActiveSync disabled 1=ActiveSync enabled
Antivirus	0=Antivirus scanning disabled 1=Antivirus scanning enabled
AutoResponderFinishTime	The end date of when the autoresponder will reply to messages. It is formatted as YYYYMMDDTHHMMSS where T is the letter "T". This time is not UTC, but in the timezone of the mailbox. If the timezone of the mailbox is not set, then the server timezone is applied to determine whether the autoresponder will execute.
AutoResponderStartTime	This is the start date of when the autoresponder will reply to messages. It uses the same date and time format as AutoResponderFinishTime.
AutoResponderRestrictionState	0=Autosponder is not restricted to certain times 1=Autosponder is restricted to certain times
CharSet	Default charSet
ReplyAddress	The default SMTP reply address
DisplayName	The friendly name/display name
MailBox-DropEventStatus	0=Mailbox delivery event disabled 1=Mailbox delivery event enabled
MailBox-DropEvent	The mailbox delivery event to execute
SMTP	0=SMTP disabled 1=SMTP enabled
POP	0=POP disabled 1=POP enabled
HTTPMail	0=HTTPMail disabled 1=HTTPMail enabled
WebMail	0=Webmail disabled 1=Webmail enabled
IMAP	0=IMAP disabled 1=IMAP enabled
MAPI	0=Outlook MAPI Connector access disabled 1= Outlook MAPI Connector access enabled
Priority	0=Messages are sent normally for this mailbox 1=Messages sent are placed in the Priority SMTP queue
TimeZone	Timezone for mailbox
AutoSignatureStatus	0=Autosignature disabled 1=Autosignature enabled

DefaultAddress	Default SMTP address for the mailbox
MsgFormat	TEXT=Use text editing for webmail HTML=Use HTML editing for webmail
WebMail-UseDeletedItemsFolder	Deleting messages moves them to deleted items folder in webmail
WebMail-ClearDeletedOnLogOff	Deletes the contents of the deleted items folder in webmail when the user logs off
WebMail-AllowNewWindows	0=Open messages within inbox frame 1=Open messages in a new window
SMTP-Inbound-Message-UsageRestrictionEnabled	0=User has no throughput restrictions 1=User has message throughput restrictions
SMTP-Inbound-Message-UsageRestriction	The number of recipients per hour the mailbox can send to
SMTP-Inbound-Message-Usage	The number of messages that have been sent since a certain time. This is formatted as: time:count Time is when the message usage count began and is the number of seconds elapsed since midnight, January 1, 1970. Count is the number of recipients sent to by the mailbox since Time. The mail services will reset the time value to the current time when it is more than 60 minutes old. If a recipient could not be sent to since it has reached the usage restriction value, then the count is still increased.
MailBox-MailboxRulesSatus	0=Mailbox filters disabled 1=Mailbox filters enabled

3.5.7 Global Registry Options

There are many options for MailEnable that are stored in the Windows registry. The Windows registry stores options that are server specific. So if you are running a cluster of MailEnable servers you can have different settings per server. Most of the options that are server specific would be related to port and IP bindings, which would be unique across servers. The following are some of the options that can be set. The registry key location for MailEnable settings is

For 32bit Windows servers:

HKEY_LOCAL_MACHINE\SOFTWARE\Mail Enable\Mail Enable

For 64bit Windows servers:

HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Mail Enable\Mail Enable

You can find the options for each server under the following keys under the main registry key branch:

Service	Key
Synchronisation service	Services\HTTPMail
IMAP	Services\IMAP
LDAP	Services\LDAP
POP3	Services\POP
Indexing service	Services\Indexing
Webmail	Services\Webmail\Options
Web administration	Services\Webadmin\Options
List server	Connectors\LS
SMTP	Connectors\SMTP
POP Retrieval	Connectors\POP
Postoffice Connector	Connectors\SF
SMS Connector	Connectors\SMS
XMPP server	Services\XMPP

SMTP Options	
Activity Log Directory	The directory the activity logs will be saved to
Activity Log Enabled	0=Activity log file disabled 1=Activity log file enabled
Debug Enabled	0=Debug log file disabled 1=Debug log file enabled
Disable Inbound Delivery	0=Enabled 1=SMTP listener will be disabled
Disable Outbound Delivery	0=Enabled 1=Emails will not be sent from the SMTP outbound queue
Restrict Inbound Message	0=No limit per hour 1=Enable per hour limit on all mailboxes
Log Subject	0=Don't add email subjects to the log files 1=Add the subject of emails to the log files where possible
Inbound Message Restriction	The number of messages per hour mailboxes can send
Welcome Message	Welcome message of the SMTP service