

MailEnable Store Reference

MailEnable Messaging Services
for Microsoft Windows 2000/2003/2008



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1 Introduction

This document lists the properties which can be set and retrieved through the MailEnable Store.

This document is intended as a property reference only. It does not outline code/platform implementations.

The document should be referred to in conjunction with the AJAX API Reference or the .NET API Reference, which describe and demonstrate the use of functions which can be used to access these properties.

2 MailEnable Store Property Reference

This section of the document outlines the respective properties of MailEnable Message Store objects.

2.1 Contact Properties:

Property ID	Type	Description
ME_ITEM_ID	String	Unique ID for Item
ME_MODIFIED_DATE	Integer	Last Modified Date
PR_SENSITIVITY	Integer	NOTE: Do not set sensitivity for contacts.
PR_COMPANY_NAME	String	Company Name
PR_EMAIL_ADDRESS	String	E-Mail Address
PR_BNP_EmailAddress	String	E-Mail Address
PR_DEPARTMENT_NAME	String	Department Name
PR_DISPLAY_NAME	String	Display Name
PR_NICKNAME	String	Nick Name
PR_NOTE	String	Note
PR_GIVEN_NAME	String	Given Name
PR_MIDDLE_NAME	String	Middle Name
PR_NORMALIZED_SUBJECT	String	Normalized Subject
PR_SUBJECT	String	Subject
PR_SURNAME	String	Surname
PR_TITLE	String	Title
PR_DISPLAY_NAME_PREFIX	String	Display Name Prefix
PR_CELLULAR_TELEPHONE_NUMBER	String	Cellular Telephone Number
PR_HOME_TELEPHONE_NUMBER	String	Home Telephone Number
PR_OFFICE_TELEPHONE_NUMBER	String	Office Telephone Number
PR_STREET_ADDRESS	String	Street address
PR_LOCALITY	String	Locality
PR_POSTAL_CODE	String	Post code
PR_STATE_OR_PROVINCE	String	State or province
PR_COUNTRY	String	String representing the name of the country associated with the contact
PR_BUSINESS_HOME_PAGE	String	Business homepage
PR_BUSINESS_FAX_NUMBER	String	Business fax number
PR_PAGER_TELEPHONE_NUMBER	String	Pager number
PR_MSMESSANGER	String	Instant messenger handle
PR_BIRTHDAY	FILETIME	Date of birthday
PR_ASSISTANT	String	Assistant's name

2.2 Calendar Properties

Property ID	Type	Description																
ME_ITEM_ID	String	Unique ID for Item																
ME_MODIFIED_DATE	Integer	Last Modified Date																
PR_SUBJECT	String	Subject																
PR_SENSITIVITY	Integer	Sensitivity																
PR_SENT_REPRESENTING_NAME	String	Sent Representing Name																
PR_SENT_REPRESENTING_EMAIL_ADDRESS	String	Sent Representing Email Address																
PR_BNP_Start	FILETIME	See STARTDATE																
PR_BNP_End	FILETIME	See PR_ENDDATE																
PR_START_DATE	FILETIME	Appointment Start Date																
PR_END_DATE	FILETIME	Appointment End Date																
PR_LOCATION	String	Location																
PR_BNP_AllDayEvent		Indicates whether this is an all day event.																
PR_BNP_ReminderSet	Integer	Indicates whether there is a reminder set for this appointment.																
PR_BNP_Importance	Integer	Importance																
PR_BNP_BusyStatus	Integer	Busy Status																
PR_ATTENDEES	String	Attendees List																
PR_BNP_AppointmentUID	String	Appointment UID (Unique ID/GUID)																
PR_OPTIONAL_ATTENDEES	String	Optional Attendees List																
PR_RESOURCES	String	Resources																
PR_CLASS	String	String representing the message class. (This is typically left blank)																
PR_BNP_IsRecurring	Integer	Indicates whether or not the item is a recurring item. <table border="1" data-bbox="933 1243 1404 1339"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Normal Appointment</td> </tr> <tr> <td>1</td> <td>Recurring Appointment</td> </tr> </tbody> </table>	Value	Meaning	0	Normal Appointment	1	Recurring Appointment										
Value	Meaning																	
0	Normal Appointment																	
1	Recurring Appointment																	
PR_BNP_RecurrenceType	Integer	Indicates the type of recurrence pattern. The following values may be used: <table border="1" data-bbox="933 1433 1404 1691"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Daily</td> </tr> <tr> <td>1</td> <td>Weekly</td> </tr> <tr> <td>2</td> <td>Monthly</td> </tr> <tr> <td>3</td> <td>MonthlyNth</td> </tr> <tr> <td>4</td> <td>Weekly</td> </tr> <tr> <td>5</td> <td>Yearly</td> </tr> <tr> <td>6</td> <td>YeathlyNth</td> </tr> </tbody> </table>	Value	Meaning	0	Daily	1	Weekly	2	Monthly	3	MonthlyNth	4	Weekly	5	Yearly	6	YeathlyNth
Value	Meaning																	
0	Daily																	
1	Weekly																	
2	Monthly																	
3	MonthlyNth																	
4	Weekly																	
5	Yearly																	
6	YeathlyNth																	
PR_BNP_RecurrenceState	Integer	Recurrence State (Not Used)																
PR_BNP_RecurrenceInstance	Integer	Specifies the count/instance for which the recurrence is valid for a given frequency. The property should only be set for RecurrenceTypes of MonthNth and YearNth type. Eg: the (RecurrenceInstance)th Monday in August.																
PR_BNP_RecurrenceInterval	Integer	Recurrence Interval																
PR_BNP_Occurrences	Integer	Number of Appointment Occurrences required																
PR_BNP_PatternStartDate	FILETIME	Pattern Start Date																

PR_BNP_PatternEndDate	FILETIME	Pattern End Date
PR_BNP_NoEndDate	Integer	Specifies whether or not any recurrence pattern has an end date
PR_BNP_RecurrenceDayOfMonth	Integer	Recurrence Day of Month
PR_BNP_RecurrenceDayOfWeekMask	Integer	Recurrence Day of Week
PR_BNP_RecurrenceMonthOfYear	Integer	Recurrence Month of Year
PR_BODY	String	Body
PR_BNP_vCalendar	String	VCalendar data associated with the appointment

2.3 Task Properties

Property ID	Type	Description
ME_ITEM_ID	String	Unique ID for Item
ME_MODIFIED_DATE	Integer	Last Modified Date
PR_SUBJECT	String	Subject
PR_SENSITIVITY	Integer	Sensitivity
PR_IMPORTANCE	Integer	Importance
PR_MESSAGE_SIZE	Integer	Message Size
PR_SENT_REPRESENTING_NAME	String	Sent Representing Name
PR_SENT_REPRESENTING_EMAIL_ADDRESS	String	Sent Representing Email Address
PR_BNP_Status	Integer	Status
PR_BNP_StartDate	FILETIME	Start date of the task formatted as a windows FILETIME structure.
PR_BNP_DueDate	FILETIME	Due date of the task formatted as a windows FILETIME structure.
PR_BNP_Mileage	String	String used to represent the Mileage associated with the task
PR_BNP_Companies	String	String to represent any companies associated with the task
PR_BNP_BillingInformation	String	String used to hold details of billing information
PR_BNP_PercentComplete	Double	Percentage of task completed
PR_BNP_Complete	Boolean	Boolean value to indicate whether or not the task has been completed
PR_BNP_TotalWork	Integer	Total Work Field associated with a task
PR_BNP_ActualWork	Integer	Actual Work Field associated with a task
PR_BODY	String	Free format text field used to provide information on the task.
PR_ME_NumAttachments	Integer	Not Used
PR_ME_ReadStatus	Integer	Not Used
PR_BNP_IsRecurring	Integer	Not Used
PR_BNP_RecurrenceType	Integer	Not Used
PR_BNP_RecurrenceInterval	Integer	Not Used
PR_BNP_Occurrences	Integer	Not Used
PR_BNP_PatternStartDate	FILETIME	Not Used
PR_BNP_PatternEndDate	FILETIME	Not Used
PR_BNP_NoEndDate	Integer	Not Used
PR_BNP_RecurrenceDayOfMonth	Integer	Not Used
PR_BNP_RecurrenceDayOfWeekMask	Integer	Not Used
PR_BNP_RecurrenceMonthOfYear	Integer	Not Used

2.4 Message Properties

The Store API provides the ability to fetch and set some message properties.

A list of the properties associated with a message follow:

Property ID	Type	Description
ME_ITEM_ID	String	Unique ID for Item
PR_ME_MODIFIEDDATE	String	String representing the modified date of the message entry in the index
PR_ME_MESSAGEDATE	String	String representing the date as represented in the headers of the message
PR_ME_IMPORTANCE	String	String integer value to represent the importance attribute of the message. Range is 0 though to 10.
PR_SENSITIVITY	Integer	Flag to indicate the sensitivity of the message. Values 0,1,2,3
PR_ME_FLAGSTATUS	String	String containing the message flags for a given message. The value is represented as a space delimited list of message attributes. Eg: /SEEN /DELETED etc
PR_ME_ATTACHMENTS	String	String value representing the number of attachments in the message.
PR_ME_FROM	String	String representing the sender of the message
PR_ME_TO	String	String representing the To recipients of the message
PR_ME_CC	String	String representing the CC recipients of the message
PR_SUBJECT	String	String representing the subject of the message
PR_ME_RECEIVED	String	String representing the received header date of the message
PR_ME_READ	String	String representing whether the message has been read A value of "0" or blank denotes that the message has not yet been read. It is recommended that the PR_ME_FLAGSTATUS field be used in favour of this field.
PR_ME_STATE	String	Unused
PR_ME_SIZE	String	String representing the size of the message
PR_ME_CLASS	String	String representing the message class of the message. Typically this field is blank when representing a message itself.

2.5 Directory Properties

MailEnable provides a global directory that can be used to publish the details of contacts to the members of a postoffice. Each directory entry has a number of properties that can be programmatically set or fetched.

To access a directory item, you need to first formulate a string that represents its location. This is called the Directory Locator ID or DLID.

The string is in the following format:

```
[SINK://[Postoffice]/[Owner]/$VCFROOT/[Mailbox]
```

An example follows:

VCF://MailEnable/James/\$VCFROOT/[James]

Property ID	Type	Description
POSTOFFICE	String	Postoffice associated with the Directory
DIRECTORYID	String	Unique ID (System generated by default) that is used to denote a directory entry. If you wish to identify the directory entry associated with a mailbox then you can specify the DirectoryID as the name of the mailbox in square braces e.g.: [Mailbox]
MAILBOX	String	Mailbox associated with the directory entry.
FOLDER	String	Folder containing the directory. Specified as \$VCFROOT
PROTOCOL	String	Specified as the string "VCF"
EMAIL	String	Email Address associated with the directory entry
DLID	String	Directory Locator ID. (See Above)
DISPLAYNAME	String	Display name of the directory entry.
PR_ADDRTYPE	String	(Reserved)

Note: Other properties are the same as contact properties as outlined in Section 2.1 of this document.

3 Examples

MailEnable provides API References that outline the use of the properties mentioned in this document. Some basic examples for calling the properties also follow below:

3.1 C/C++ Example

Example C/C++: to fetch the display name for the directory item corresponding to the postoffice “postoffice” and the mail user “mailbox”

```
#include <windows.h>
#include <stdio.h>

typedef long (__stdcall *LPFNDLL_Directory_OpenEntry)(char *DirectoryLocatorID,char *XMLParams);
typedef long (__stdcall *LPFNDLL_GetPropertyType)(char *PropertyName);
typedef long (__stdcall *LPFNDLL_DirectoryEntry_GetProperty)(char *DirectoryLocatorID, char *PropertyName,void
**PropertyValue, long *ItemSize);
typedef long (__stdcall *LPFNDLL_DirectoryEntry_SetProperty)(char *DirectoryLocatorID, char *PropertyName,void
*PropertyValue);
typedef long (__stdcall *LPFNDLL_DirectoryEntry_FreeProperty)(void *ItemPointer);
typedef long (__stdcall *LPFNDLL_Directory_CloseEntry)();

int main(int argc, char* argv[])
{
    HMODULE hDirectoryDLLHandle = LoadLibrary("MEAIDP.DLL");
    char szDLI[1024];

    LPFNDLL_Directory_OpenEntry fpDirectory_OpenEntry = (LPFNDLL_Directory_OpenEntry)
GetProcAddress(hDirectoryDLLHandle,"Directory_OpenEntry");
    LPFNDLL_DirectoryEntry_GetProperty fpDirectoryEntry_GetProperty = (LPFNDLL_DirectoryEntry_GetProperty)
GetProcAddress(hDirectoryDLLHandle,"DirectoryEntry_GetProperty");
    LPFNDLL_DirectoryEntry_FreeProperty fpDirectoryEntry_FreeProperty = (LPFNDLL_DirectoryEntry_FreeProperty)
GetProcAddress(hDirectoryDLLHandle,"DirectoryEntry_FreeProperty");
    LPFNDLL_Directory_CloseEntry fpDirectory_CloseEntry = (LPFNDLL_Directory_CloseEntry)
GetProcAddress(hDirectoryDLLHandle,"Directory_CloseEntry");
    sprintf(szDLI,"VCF://%s/%s/$VCFROOT/[%s]", "MailEnable", "Andrew", "Andrew");
    CoInitialize(NULL);
    if ((fpDirectory_OpenEntry)(szDLI,"<PROTOCOL>VCF</PROTOCOL>") !=0)
    {
        //get the properties
        char *PropertyValue;
        long ItemSize;
        //
        if ((fpDirectoryEntry_GetProperty)("", "PR_BNP_Email1Address", (void **)&PropertyValue, &ItemSize) !=0)
        //if ((fpDirectoryEntry_GetProperty)("", "PR_DISPLAY_NAME", (void **)&PropertyValue, &ItemSize) !=0)
        {
            printf("Result: %s\n", PropertyValue);
            (fpDirectoryEntry_FreeProperty)(PropertyValue);
            (fpDirectory_CloseEntry)();
        }
    }
    FreeLibrary(hDirectoryDLLHandle);
    CoUninitialize();

    return 0;
}
```

3.2 .NET Example

The following .NET example will add a new appointment with the properties specified

The example below creates a new appointment in the Calendar of the “Mark” Mailbox in the “MailEnable” postoffice:

```

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", "location")
            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)
            Dim SaveResult As Long = oStoreItem.StoreFolder_Save(1)
        End If
        oStoreItem.StoreFolder_Close()
    End If
End Sub
    
```

The example below gets the inbox message information for postoffice “postoffice” and mailbox “mbox”. It is a basic example of how you can list messages for a mailbox in your own application. The messageid value will be populated with the filename of the message on the filesystem.

```

long lResult = 0;

MailEnable.Store StoreMessage = new MailEnable.Store();
lResult = StoreMessage.StoreFolder_Open("postoffice", "mbox", "\\Inbox",
StoreMessage.MessageClass, 1);

if (StoreMessage.StoreFolder_FindFirstItem() == 1)
{
    do
    {
        string messageid = StoreMessage.StoreItem_GetProperty("ME_ITEM_ID").ToString();
        string flags = StoreMessage.StoreItem_GetProperty("PR_ME_FLAGSTATUS").ToString();
        string readstatus = StoreMessage.StoreItem_GetProperty("PR_ME_READ").ToString();
        string attachment =
StoreMessage.StoreItem_GetProperty("PR_ME_ATTACHMENTS").ToString();
        string From = StoreMessage.StoreItem_GetProperty("PR_ME_FROM").ToString();
        string subject = StoreMessage.StoreItem_GetProperty("PR_SUBJECT").ToString();
        string receiveddate =
StoreMessage.StoreItem_GetProperty("PR_ME_MESSAGEDATE").ToString();
        string size = StoreMessage.StoreItem_GetProperty("PR_ME_SIZE").ToString();
        string from = StoreMessage.StoreItem_GetProperty("PR_ME_FROM").ToString();
    }
    while ((StoreMessage.StoreFolder_FindNextItem() == 1));
}

lResult = StoreMessage.StoreFolder_FindClose();
lResult = StoreMessage.StoreFolder_Close();
    
```