Reading E-Mail

To read e-mail into OpenInsight, perform the following steps:

1. Logon to the MAPI server, using MAPILogon().
2. Retrieve the list of mail IDs, using MAPIOpenMail().
3. Loop through the list, using MAPIReadMail() to read each message, processing as required.
4. When done, logoff the MAPI server, using MAPILogoff().

Simple MAPI supports only reading from the inbox. Reading from email folders is not supported.

Useful flags when reading messages are:

- **MAPI_ENVELOPE_ONLY$** - read only the header, not the message text and file attachments
- **MAPI_SUPPRESS_ATTACH$** - don't read the file attachments
- **MAPI_BODY_AS_FILE$** - return the message text as the first file attachment, instead of including the message in the message structure
- **MAPI_PEEK$** - do not mark the message as read.

The code below reads the inbox, stores the contents of the email in a table called **REVDATA**, and deletes the email from the inbox. The Msg() function, with the **GC** parameter, displays a gas gauge type message as the mail is being read and processed. It is removed after processing has completed.

```
* Reads e-mail from your inbox and places them in a file called REVMAIL
$Insert MAPI_EQUATES
$Insert MSG_EQUATES
Declare Subroutine Get_Status
Declare Function MAPILogon, MAPILogoff, MAPIOpenMail, MAPIReadMail, Msg, Set_Property
Declare Function MAPIDeleteMail
Open "REVMAIL" to DataFile then
   If MAPILogon(MapiSession, 0,"","", MAPI_LOGON_UI$ + MAPI_NEW_SESSION$+ MAPI_FORCE_DOWNLOAD$)
Then
      Flags = MAPI_PEEK$ + MAPI_GUARANTEE_FIFO$
      if   MAPIOpenMail(MAPIsession, 0, "IPM.", Flags, ids) then
         Flags = MAPI_PEEK$
         Def = ""
         Def<MCAPTION$> = "Fetching New Messages"
         Def<MTYPE$ > = "GC"
         Def<MEXTENT$ > = Count(IDS,@FM) + Len(IDS[1,1])
         YOURTEXT = '%'
         Def<MTEXT$> = YOURTEXT
         Def<MTEXTWIDTH$> = 100

         * Display a message with gasguage
         MsgUp = Msg(@window, Def)
         TotRecs = Count(IDS,@FM) + Len(Ids[1,1])
         Cnt = 0
         For x = 1 to TotRecs
            If MAPIReadMail(MapiSession, @WINDOW, Ids<x>, Flags , Message) then
               Rec = "INBOX"
               Rec<2> = ICONV(Message<POS_DATE$>[1,10],"DE")
               Rec<3> = ICONV(Message<POS_DATE$>[11,5],"MT")
               Rec<4> = ""
               Rec<6> = Message<POS_FROM$>
               Rec<7> = Message<POS_TO$>
               Rec<8> = Message<POS_CC$>
               Rec<9> = Message<POS_BCC$>
               Rec<10> = Message<POS_SUBJECT$>
               Rec<11> = ''
               Rec<12> = Message<POS_TEXT$>
               Convert Char(13):Char(10) to @TM in Rec
               Write Rec on DataFile, Ids<x> Then
                   * Delete message from the MAPI message store
                   status = MAPIDeleteMail(MAPISession, @Window, Ids<x>)
                End
             End
             * Update the Message with the percentage of e-mails imported
              YOURVAR = int(x/TotRecs*100) : YOURTEXT
              Val = SET_PROPERTY('MSG.ST_TEXT','TEXT',YOURVAR)
            While Msg(@window, MsgUp, x, MSGINSTUPDATE$, '')
            Next x
        End
        Val = MAPILogOff(MapiSession)
   End
End
```