Pronto Engine

Pronto exposes several actions to an outside client.
Each action will need some parameters.

Since 32Bit apps cannot transfer data directly between them we will use
the WM_COPYDATA transfer mechanism.

a WM_COPYDATA message includes the following data members:
        dwData : the id of the action
        cbdata : the size of the information block.
        lpData : a pointer to the information block.

The information Block holds all the parameters to a specific action.
If the params are strings then they are separated with a zero '\x0'.
If the parameter is an int then it's a 4-byte width integer.

Following is the list of the actions PRONTO exposes:

a) PRONTO_ReadFolderMessages
Action: Traverse a folder and create a text file listing all the
messages in that folder.

Params:
char* i_FolderPath
        full path to directory where folder resides.
char* i_MsgsFileName
        full path to file that will hold a list of all the messages in the
        folder.

* The listing file structure is as follows:
 The first line holds the number of messages in folder.
 each message is described in four lines as follows:

  Line 1: MsgId   (Unique ID of message)
  Line 2: From field   (The originator of the message)
  Line 3: To field
  Line 4: Subject field (the subject of the message)
  Line 5: READ/UNREAD   * READ if the message was already viewed.
                          otherwise UNREAD
  Line 6: Date

b) PRONTO_MoveMessage
Action: Moves or Copies a message from one folder to another.

Params:
 char* i_MsgId
      Unique Id of message(will be atoi(...) if the int msgID.
 char* i_FromPath
      Full Path to origin folder
 char* i_ToPath
      Full Path to destination folder
 char* i_Copy
      if '1' than copy. if '0' than move.

** Return Value: int - with the MsgId in the Target Folder.

c) PRONTO_UpdateMailFromFolders
Action: DownLoads mail from the server and sends outbound messages.

Params:
 char* i_Inbox
      Full Path to parent folder where new mail from host will be put.
      If the string is empty (""), function will not retrieve mail.
 char* i_Outbox
      Full Path to the parent folder where outbound mail resides.
      If the string is empty (""), function will not send mail.
char* i_SentLog
      Full Path to the parent folder where SentLog mail resides.
      If there's a full path, Every message sent successfully is moving
      to SentLog. The string can have two more Types:
            <NOOP>   :Not Moving any message to SentLog.
            <DELETE>   :Deleting From outbox. (Without copying)
char* i_Retain
      if '1' than Retain Mail on host. if '0' than Delete Mail from
      Host.

The Result of the communication will be returned by Pronto to the
requesting Application(By the HWND supplied in the WPARAM), in the
registered window message "PRONTO_COMM_RESULT" .The result will be
returned in the LPARAM parameter of the handler function. The LPARAM Can
Be one of the 3 values :

-PRONRES_WrongAddress
      Wrong address was specified in the message, will be sent only
      one time in each communication session (only if there is wrong
      address ,of course)
-PRONRES_ConnectFail
      Couldn't connect to Server.
-PRONRES_WrongSettings
      The mail box settings are not correct.
-PRONRES_CommunicationFinished
      Communication session is over.

d) PRONTO_GetMessageFromFolder
Action: Retrieve a single message from a folder; decompose it to body
and attachments and save that in a text file and attachments files.

Params:
 char i_MsgId
      Unique Id of message.
 char* i_FolderName
      Full Path to folder holding the message
 char* i_PathName
       Full Path to folder that will hold the message data.

The file name is "getfrom.msg" and it holds the following info:

From field
To field
Subject Field
name of file where text body is
Number of properties in header
      Property name   } those two lines appear Number of
      Property value } properties times.
Number of attachments
      Full path to attachment file. } Appears Number of attachments
      Number of properties in attachment header
            Property name   } those two lines appear Number of
            Property value } properties times.

Here is an example file.
(strings in <> are our comments and will not be in the file)

From:
beta@nova.unix.portal.com
To:
Sara@ctouch.co.il
Subject:
How you doing?
2   < Number Of properties >
X-Mailer   <The Name of the property1>
Pronto Mail 3.0   <The Value of the property1>
Mime-Version   <The Name of the property2>
1.0   <The Value of the property2>
Body:
C:\Mail\Addons\$body.txt   < Name of file holding body text>
Count:
2   < Number of attachments>
C:\Mail\Addons\clouds.bmp   < Attachment file >
1
X-Attach-Type
SuperAttachMent
C:\Mail\Addons\yesterday.wav < Attachment file >
0

e) PRONTO_CreateMessageFromFiles
Action: (The opposite of PRONTO_GetMessageFromFolder)
Composes a mail message from a text file and attachment files, the file
name is "saveto.msg".

Params
char* i_PathName
      Full Path to folder where the message infromation is stored
char* i_FolderPath
      Full Path to folder where message should be appended.

* The text file is just like in PRONTO_CreateMessageFromFiles
** Return Value: int - with the MsgId in the Target Folder. (0 == Fail)

f) PRONTO_IsFolderHasNewMsgs
Action: Check if there are new (i.e. Unread) messages in a folder.

Params:
 char* i_FolderPath
      Full Path to folder to be checked.

g)PRONTO_SetMailBox
Action: Set the mailBox Parameters of the current user.

Params :
 char* i_HostLogin
      login of the user.
 char* i_Password
      Password of the user.
 char* i_MailServer
      Ip of the mail server.
 char* i_NameAndTitle
      Name and Title of the current user.
 char* i_SmtpHost
      Ip of the SMTP sever.
 char* i_ReturnAddres
      Return address

h) PRONTO_SetMailBoxPreferences
Action: Set the mailBox Parameters of the current user.

Params :
 char* TimeOut
      TCPIP TimeOut
 char* Debug
      Debug Level (a number between 1-3)
 char* Log
      Logging (1-Yes, 0-No)
 char* WorkDir
      Setting the working Directory

i) PRONTO_CreateFolder
Action: Create Data Base files in the Following directory!

Params :
 char* i_PathName

d) PRONTO_DeleteMessageFromHost
Action: Delete a single message from the host in the next Mail Retrieve.

Params:
 char i_MsgId
      Unique Id of message.
 char* i_FolderName
      Full Path to folder holding the message

** Note that to use multiple Email accounts, you must use different
working directory.