TMDC Utilities Plugin

for REALbasic



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Disclaimer:

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If you find any bugs or problems in this plugin, please do not hesitate to email us at <u>admin.tmdc@worldnet.fr</u> or visit our web site at http://www.tmdc.org/.

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I. Application & Misc

The items within Application & Misc. are REALbasic addons which either have to do with Applications or were not able to be fit within the other categories.

i) TMDCReverseString(text as string) As String

Reverse string allows a body of text to be reversed so TMDC would be CDMT. The below example should display '!eM esreveR'.

Msgbox TMDCReverseString("Reverse Me!")

ii) TMDCShutdownComputer() As Boolean

This will shutdown the computer safely causing all unsaved documents to be saved. This is the exact same method as choosing 'Special -> Shutdown' from the Finder.

Dim b as boolean b=TMDCShutdownComputer

iii) TMDCQuitApplication(application as name) As Boolean

This will quit the named application as if quit was selected from the 'File' menu.

Dim b as boolean b=TMDCQuitApplication("Finder")

iv) TMDCHideApplication(application as name) As Boolean

This does the same as TMDCQuitApplication but instead of quitting the application, it hides it. The same method is used in implementing it with the application being the name of the application you would like to hide. TMDCHide can not hide the Finder or frontmost application.

Dim b as boolean b=TMDCHideApplication("SimpleText")

v) *TMDCNotification*

This is a class which brings up a notification alert including a flashing icon and a bullet by the application which caused it. It has the following properties and methods:

AlertString As String

This is the string that appears in the alert.

Install()

This shows the dialog and starts the notification process.

Remove()

This removes the flashing icon and bullet. It is normally called from the Application class' Activate event so as to remove the notification when the program is brought to the front.

See the notification example for a working demonstration as it is to large to describe in this manual.

vi) TMDCRestartComputer() As Boolean

This will cause the computer to restart as if 'Restart' was chosen from the 'Special' menu in the Finder.

Dim b as boolean b=TMDCRestartComputer

vii) TMDCCreateUUID() As String

This will return a universal unique ID which no two computers will ever have the same, guaranteed. This unique identifier conforms with the format defined by IBM and DEC. This is mainly used for tracking internet transactions.

Msgbox TMDCCreateUUID

II. Encryption & Hash

The items within this section, encryption and hash, are used to encrypt or one-way hash data for secure transfer or storage.

i) TMDCKey

This class is used to store a key generated using the TMDCCreateNewKey method. Every key is unique and so encryption/decryption must be done through storing and retrieving the StringValue property of this class.

StringValue As String

Returns the generated key as a string.

Dim s as string s=Key.StringValue

ii) TMDCCreateNewKey(Text as String) As TMDCKey

This generates a new TMDCKey for use with encryption and decryption. The text is used as the key as a password.

Dim Key as TMDCKey Key=TMDCCreateNewKey("This is a key")

iii) TMDCEncrpytString(text as string, key as TMDCKey) As String

This will encrypt a string of data in the blowfish algorithm which is 144 bit encryption.

Dim key as TMDCKey key = TMDCCreateNewKey("My Key") Msgbox TMDCEncryptString("Encrypt me!", key)

iv) TMDCDecryptString(text as string, key as TMDCKey) As String

This will decrypt a string of data which was encrypted with TMDCEncryptString.

Dim key as TMDCKey key = TMDCCreateNewKey("My Key") Msgbox TMDCDecryptString("Decrypt Me!", key) v) TMDCMD5Hash(text as string) As String

TMDCMD5Hash will one-way encrypt a string with the MD5 hash.

Msgbox TMDCMD5Hash("Hash Me!")

vi) TMDCSHAHash(text as string) As String

TMDCSHAHash will one-way encrypt a string with the SHA hash.

Msgbox TMDCSHAHash("Hash Me!")

vii) TMDCGetKeyFromString(data as string) As TMDCKey

This will recreate a TMDCKey from a string which was taken from TMDCKey.stringvalue.

```
Dim Key as TMDCKey

Key=TMDCGetKeyFromString(Socket1.Read(1042))

// 1042 is the length of the key data
```

viii) TMDCEncryptFile(file1 as folderitem, file2 as folderitem, key as TMDCKey) As Boolean

This will encrypt a file's data fork using the 144 bit Blowfish encryption algorithm.

ix) TMDCDecryptFile(file 1 as folderitem, file2 as folderitem, key as TMDCKey) As Boolean

This will decrypt a file encrypted with TMDCEncryptFile.

III. Files

The items within this section all deal with files and folderitems. The items in this section can extend previous REALbasic calls as well as add new ones.

i) Folderitem->TMDCOpenInFinder

This opens the current item through the finder whether it be: a file, folder, or window.

Dim f as folderitem f=GetOpenFolderItem("anything") f.TMDCOpenInFinder

ii) Folderitem->TMDCRevealInFinder

This will select the icon of a file, folder, or window in the and open any necessary folders to do so.

Dim f as folderitem f=GetOpenFolderItem("anything") f.TMDCRevealInFinder

iii) TMDCFinderFlags

This is a class which adds Finder flags to REALbasic.

Folderitem->TMDCFinderFlags.Invisible As Boolean

This will tell you if the file is invisible or not.

Folderitem->TMDCFinderFlags.HasCustomIcon As Boolean

This will tell you if the file has a custom icon or not.

Folderitem->TMDCFinderFlags.Alias As Boolean

This will tell you if the file is an alias or not.

iv) TMDCEncodeBinHexFile(source as Folderitem, destination as Folderitem) As Boolean

This function will encode a file with the BinHex 4.0 method for transfer of Macintosh files over the internet.

Dim source, destination as folderitem

Dim b as boolean
source=GetOpenFolderItem("anything")
destination=GetSaveFolderItem("anything", "Binhexed File")
b=TMDCEncodeBinHexFile(source,destination)

v) TMDCDecodeBinHexFile(source as Folderitem, destination as Folderitem) As Boolean

This function will remove the BinHex 4.0 encoding on a file.

Dim source, destination as folderitem

Dim b as boolean
source=GetOpenFolderItem("anything")
destination=GetSaveFolderItem("anything", "Decoded BinHex File")
b=TMDCDecodeBinHexFile(source,destination)

vi) Folderitem ->TMDCPrintInFinder

This will cause the Finder to print a folderitem by opening the program, displaying the print dialog, and then quitting the application.

Dim f as folderitem f=GetOpenFolderItem("anything") f.TMDCPrintInFinder

vii) TMDCCanUseNavSvcs As Boolean

This will return false if the computer does not have navigation services 1.1 (Mac OS 8.5 or above).

If TMDCCanUseNacSvcs then

Msgbox "This computer can use navigation services!"
else

Msgbox "This computer cannot use navigation services!"
End if

viii) TMDCNavChooseObject As Folderitem

This will bring up a standard navigation choose (open) dialog and let you pick either a file or folder via a choose button.

Dim f as folderitem f=TMDCNavChooseObject("anything") Msgbox f.name ix) TMDCEncodeMacBinaryFile(source as folderitem, destination as folderitem) As Boolean

This will encode a file in Mac Binary III for internet transmission.

Dim source, destination as folderitem

Dim b as boolean
source=GetOpenFolderItem("anything")
destination=GetSaveFolderItem("anything", "Encoded File")
b=TMDCEncodeMacBinaryFile(source, destination)

x) TMDCDecodeMacBinaryFile(source as folderitem, destination as folderitem) As Boolean

This will decode a Mac Binary III in to another file.

Dim source, destination as folderitem
Dim b as boolean
source=GetOpenFolderItem("anything")
destination=GetSaveFolderItem("anything", "Encoded File")
b=TMDCDecodeMacBinaryFile(source, destination)

xi) TMDCEncodeMacBinaryString(file as folderitem) As String

TMDCEncodeMacBinaryString takes a file and encodes it in to a string.

Dim s as string
Dim f as folderitem
f=GetOpenFolderItem("anything")
s=TMDCEncodeMacBinaryString(f)
Msgbox s

xii) TMDCDecodeMacBinaryString(macbinary as string, file as folderitem) As String

TMDCDecodeMacBinaryString takes a file and decodes it in to a string.

Dim s as string
Dim f1, f2 as folderitem
f1=GetOpenFolderItem("anything")
f2=GetSaveFolderItem("anything", "Decoded")
s=TMDCEncodeMacBinaryString(f1)
TMDCDecodeMacBinaryString(s, f2)

xiii) TMDCIsMacBinaryFile(file as folderitem) As Boolean

This will check if a file is encoded in MacBinary III and will return true if it is.

xiv) TMDCUUEncode(source as folderitem, destination as folderitem) As Boolean

This will encode a file using the UUCode algorithm.

Dim source, destination as folderitem

Dim b as boolean
source=GetOpenFolderitem("Anything")
destination=GetSaveFolderitem("Anything","UU Encoded File")
b=TMDCUUEncode(source, destination)

xv) TMDCUUDecode(source as folderitem, destination as folderitem) As Boolean

This will decode a file which has been encoded with the UUCode algorithm.

Dim source, destination as folderitem

Dim b as boolean
source=GetOpenFolderitem("Anything")
destination=GetSaveFolderitem("Anything","UU Decoded File")
b=TMDCUUDecode(source, destination)

xvi) TMDCFinderFlags

This is a class which add's Finderflags to REALbasic.

Folderitem->TMDCFinderFlags.HasBNDL As Boolean

This will tell you if the file has a BNDL or not.

Folderitem->TMDCFinderFlags.Stationery As Boolean

This will tell you if the file is a stationery file or not.

Folderitem->TMDCFinderFlags.Inited As Boolean

This will tell you if the file is inited.

```
Dim f as folderitem
f=GetOpenFolderItem("anything")
if f.TMDCFinderFlags.Inited then
Msgbox f.name + " is inited."
else
Msgbox f.name + " is not inited."
end if
```

Folderitem->TMDCFinderFlags.NoINITs As Boolean

This will tell you if the file is has no INIT resources.

Folderitem->TMDCFinderFlags.Shareable As Boolean

This will tell you if the file is set up to be shared.

```
Dim f as folderitem
f=GetOpenFolderItem("anything")
if f.TMDCFinderFlags.Shareable then
Msgbox f.name + " is shareable."
else
Msgbox f.name + " is not shareable."
end if
```

Folderitem->TMDCFinderFlags.NameLocked As Boolean

This will tell you if the file has its name locked.

xvii) TMDCExtendedFinderFlags

This is a class which add's Mac OS 8.5 + Finderflags to REALbasic. The can only be viewed, not set.

Folderitem->TMDCExtendedFinderFlags.FlagsInvalid As Boolean

This will tell you if the file's flags are invalid.

Folderitem->TMDCExtendedFinderFlags.HasCustomBadge As Boolean

This will tell you if the file has a custom badge.

Folderitem->TMDCExtendedFinderFlags.HasRoutingInformation As Boolean

This will tell you if the file has routing information.

IV. Folders

The items within this all deal with Macintosh Folders which are recognized by the Mac OS. The way REALbasic receives these are with a colon at the end like HD:Applications:. Folders which do not exist when you call for them are automatically created. Use FolderName As FolderItem.

Below are the list of Folders and what they do:

Folder What It Does

TMDCExtensionsDisabledFolder
TMDCControlPanelsDisabledFolder
TMDCStartupItemsDisabledFolder
TMDCShutdownItemsDisabledFolder
TMDCShutdownItemsDisabledFolder
TMDCShutdownItemsDisabledFolder
TMDCShutdownItemsDisabledFolder
TMDCShutdownItemsDisabledFolder
TMDCShutdownItemsDisabledFolder

TMDCVoicesFolder Goes to the Voices Folder
TMDCAppleExtrasFolder Goes to the Apple Extras Folder
TMDCThemesFolder Goes to the Themes Folder

TMDCLauncherItemsFolder Goes to the Launcher Items Folder

TMDCFontsFolder Goes to the Fonts Folder

TMDCModemScriptsFolder Goes to the Modem Scripts Folder TMDCApplicationSupportFolder Goes to the Application Support Folder

TMDCHelpFolder Goes to the Help Folder

TMDCSystemExtensionsDisabledFolder Goes to the System Extensions Disabled Folder

TMDCApplicationsFolder Goes to the Applications Folder
TMDCDocumentsFolder Goes to the Documents Folder
TMDCVolumeRootFolder Goes to the Volume's Root Folder

TMDCChewableItemsFolder Goes to the Chewable Items Folder (??!!)

TMDCTextEncodingsFolder

TMDCScriptingAdditionsFolder

TMDCSharedLibrariesFolder

TMDCControlStripModulesFolder

Goes to the Scripting Additions Folder

Goes to the Shared Libraries Folder

Goes to the Control Strip Modules Folder

TMDCAssistantsFolder Goes to the Assistants Folder TMDCUtilitiesFolder Goes to the Utilities Folder

TMDCContextualMenuItemsFolder Goes to the Contextual Menu Items Folder

TMDCFavoritesFolderGoes to the Favorites FolderTMDCInternetFolderGoes to the Internet FolderTMDCAppearanceFolderGoes to the Appearance FolderTMDCSoundSetsFolderGoes to the SoundSets Folder

TMDCDesktopPicturesFolder Goes to the Desktop Pictures Folder
TMDCInternetSearchSitesFolder Goes to the Internet Search Sites Folder

TMDCFindByContentFolder Goes to the Find By Content Folder

TMDCScriptsFolder
TMDCFolderActionsFolder
Goes to the Folder Actions Folder
TMDCRecentApplicationsFolder
Goes to the Recent Applications Folder
TMDCRecentDocumentsFolder
Goes to the Recent Documents Folder
TMDCRecentServersFolder
Goes to the Recent Servers Folder
TMDCSpeakableItemsFolder
Goes to the Speakable Items Folder

TMDCKeychainFolder Goes to the Keychain Folder

TMDCQuickTimeExtensionsFolder TMDCFindByContentPluginsFolder

Goes to the QuickTime Extensions Folder Goes to the Find By Content Plugins Folder

Please note that TMDCKeychainFolder will only work under Mac OS 9 as the Keychain Manager is required for this functionality.

V. Internet Config

All of the items within this section deal with the Internet Configuration Manager and its control panel. These are useful for finding out information on the Internet Config data and the user.

i) TMDCICRealName() As String

This gives you the name entered in the Internet Config control panel.

Msgbox TMDCICRealName

ii) TMDCICEmailAddress() As String

This gives you the e-mail address entered in the Internet Config control panel.

Msgbox TMDCICEmailAddress

iii) TMDCICOrganization() As String

This gives you the organization entered in the Internet Config control panel.

Msgbox TMDCICOrganization

iv) TMDCICEmailAccount() As String

This gives you the e-mail account entered in the Internet Config control panel.

Msgbox TMDCICEmailAccount

v) TMDCICEmailPassword() As String

This gives you the e-mail password entered in the Internet Config control panel.

Msgbox TMDCICEmailPassword

vi) TMDCICNewsUser() As String

This gives you the user name for the News User entered in the Internet Config control panel.

Msgbox TMDCICNewsUser

vii) TMDCICNewsPassword() As String

This gives you the password for the News User entered in the Internet Config control panel.

Msgbox TMDCICNewsPassword

viii) TMDCICArchiePreferred() As String

This gives you the preferred Archie server entered in the Internet Config control panel.

Msgbox TMDCICArchiePreferred

ix) TMDCICUMichPreferred() As String

This gives you the preferred UMich server entered in the Internet Config control panel.

Msgbox TMDCICUMichPreferred

x) TMDCICInfoMacPreferred() As String

This gives you the preferred InfoMac server entered in the Internet Config control panel.

Msgbox TMDClCInfoMacPreferred

xi) TMDCICPhHost() As String

This gives you the PhHost entered in the Internet Config control panel.

Msgbox TMDCICPhHost

xii) TMDCICWhoisHost() As String

This gives you the Whois Host entered in the Internet Config control panel.

Msgbox TMDCICWhoisHost

xiii) TMDCICFingerHost() As String

This gives you the Finger Host entered in the Internet Config control panel.

Msgbox TMDCICFingerHost

xiv) TMDCICFTPHost() As String

This gives you the FTP Host entered in the Internet Config control panel.

Msgbox TMDCICFTPHost

xv) TMDCICTelnetHost() As String

This gives you the Telnet Host entered in the Internet Config control panel.

Msgbox TMDCICTelnetHost

xvi) TMDCICSMTPHost() As String

This gives you the SMTP Host entered in the Internet Config control panel.

Msgbox TMDCICSMTPHost

xvii) TMDCICNNTPHost() As String

This gives you the NNTP Host entered in the Internet Config control panel.

Msgbox TMDCICNNTPHost

xviii) TMDCICGopherHost() As String

This gives you the Gopher Host entered in the Internet Config control panel.

Msgbox TMDCICGopherHost

xix) TMDCICLDAPServer() As String

This gives you the LDAP Server entered in the Internet Config control panel.

Msgbox TMDCICLDAPServer

xx) TMDCICLDAPSearchbase() As String

This gives you the LDAP Searchbase entered in the Internet Config control panel.

Msgbox TMDCICLDAPSearchbase

xxi) TMDCICWWWHomePage() As String

This gives you the default homepage entered in the Internet Config control panel.

Msgbox TMDCICWWWHomePage

xxii) TMDCICWAISGateway() As String

This gives you the WAIS Gateway information entered in the Internet Config control panel.

Msgbox TMDCICWAISGateway

xxiii) TMDCICListFont() As String

This gives you the default list font entered in the Internet Config control panel.

Msgbox TMDCICListFont

xxiv) TMDCICScreenFont() As String

This gives you the default screen font entered in the Internet Config control panel.

Msgbox TMDCICScreenFont

xxv) TMDCICDocumentFont() As String

This gives you the default document font entered in the Internet Config control panel.

Msgbox TMDCICDocumentFont

xxvi) TMDCICPrinterFont() As String

This gives you the default printer font entered in the Internet Config control panel.

Msgbox TMDCICPrinterFont

xxvii) TMDCICSignature() As String

This gives you the default signature entered in the Internet Config control panel.

Msgbox TMDCICSignature

xxviii) TMDCICPlan() As String

This gives you the Finger plan entered in the Internet Config control panel.

Msgbox TMDCICPlan

xxix) TMDCICQuotingString() As String

This gives you the character for default quoting entered in the Internet Config control panel.

Msgbox TMDCICQuotingString

xxx) TMDCICMailHeaders() As String

This gives you the mail headers entered in the Internet Config control panel.

Msgbox TMDCICMailHeaders

xxxi) TMDCICNewsHeaders() As String

This gives you the news headers entered in the Internet Config control panel.

Msgbox TMDCICNewsHeaders

xxxii) TMDCICNewMailFlashIcon() As Boolean

This tells you whether or not the New Mail Flash Icon is active (whether or not the application's icon flashes when you have received new mail).

if TMDCICNewMailFlashIcon then
Msgbox "New Mail Flash Icon is active"
else
Msgbox "New Mail Flash Icon is not active"
end if

xxxiii) TMDCICNewMailDialog() As Boolean

This tells you whether or not the New Mail Dialog is active (whether or not a dialog appears when you have received new mail).

if TMDCICNewMailDialog then
Msgbox "New Mail Dialog is active"
else
Msgbox "New Mail Dialog is not active"
end if

xxxiv) TMDCICNewMailPlaySound() As Boolean

This tells you whether or not the New Mail Play Sound is active (whether or not a sound plays when you have received new mail).

```
if TMDCICNewMailPlaySound then
Msgbox "New Mail Play Sound is active"
else
Msgbox "New Mail Play Sound is not active"
end if
```

xxxv) TMDCICNewMailSoundName() As String

This gives you the New Mail Sound Name entered in the Internet Config control panel (the name of the sound which plays when you have received a new message).

Msgbox TMDCICNewMailSoundName

xxxvi) TMDCICWebBackgoundColor() As String

This gives you the default Internet page background. The result is in RGB values, comma separating the different colors.

Msgbox TMDCICWebBackgroundColor

xxxvii) TMDCICUseSOCKS() As Boolean

This tells you whether or not SOCKS is active.

```
if TMDCICUseSOCKS then

Msgbox "SOCKS is active"
else

Msgbox "SOCKS is not active"
end if
```

xxxviii)TMDCICSOCKSHost() As String

This gives you the SOCKS Host that was entered in the Internet Config panel.

Msgbox TMDCICSOCKSHost

xxxix) TMDCICUseHTTPProxy() As Boolean

This tells you whether or not HTTP Proxy is active.

```
if TMDCICUseHTTPProxy then

Msgbox "HTTP Proxy is active"
else

Msgbox "HTTP Proxy is not active"
end if
```

x1) TMDCICHTTPProxyHost() As String

This gives you the HTTP Proxy Host that was entered in the Internet Config panel.

Msgbox TMDCICHTTPProxyHost

xli) TMDCICUseGopherProxy() As Boolean

This tells you whether or not Gopher Proxy is active.

```
if TMDCICUseHTTPGopher then

Msgbox "Gopher Proxy is active"
else

Msgbox "Gopher Proxy is not active"
end if
```

xlii) TMDCICGopherProxyHost() As String

This gives you the Gopher Proxy Host that was entered in the Internet Config panel.

Msgbox TMDCICHTTPGopherHost

xliii) TMDCICUseFTPProxy() As Boolean

This tells you whether or not FTP Proxy is active.

```
if TMDCICUseFTPProxy then

Msgbox "FTP Proxy is active"
else

Msgbox "FTP Proxy is not active"
end if
```

xliv) TMDCICFTPProxyHost() As String

This gives you the FTP Proxy Host that was entered in the Internet Config panel.

Msgbox TMDCICFTPProxyHost

xlv) TMDCICFTPProxyUser() As String

This gives you the FTP Proxy User that was entered in the Internet Config panel.

Msgbox TMDCICFTPProxyUser

xlvi) TMDCICFTPProxyPassword() As String

This gives you the FTP Proxy Password that was entered in the Internet Config panel.

Msgbox TMDCICFTPProxyPassword

xlvii) TMDCICFTPProxyAccount() As String

This gives you the FTP Proxy Account that was entered in the Internet Config panel.

Msgbox TMDCICFTPProxyAccount

xlviii) TMDCICUsePassiveFTP() As Boolean

This tells you whether or not to use FTP Passive mode.

if TMDCICUsePassive FTP then
Msgbox "Passive FTP is active"
else
Msgbox "Passive FTP is not active"
end if

il) TMDCICSnailMailAddress() As String

This gives you the postal address that was entered in the Internet Config panel.

Msgbox TMDCICSnailMailAddress

1) TMDCICMacSearchHost() As String

This gives you the MacSearch Host that was entered in the Internet Config panel.

Msgbox TMDCICMacSearchHost

1i) TMDCICWWWSearchPage() As String

This gives you the default Internet search page.

Msgbox TMDCICWWWSearchPage

lii) TMDCICDownload Folder as Folderitem

This gives you the Downloads folder as a folderitem.

Msgbox TMDCICDownloadFolder.absolutepath

liii) TMDCICSetTypeCreator(file as Folderitem) As Boolean

This will set the write icon by determining it from the extension at the end.

Dim f as folderitem
Dim b as boolean
f=GetFolderItem("archive.sit")
b=TMDCICSetTypeCreator(f)

VI. GUI & Dialog

All of the items within this deal with new controls added or the Macintosh graphic user interface.

i) TMDCListViewWindowHeader

This is a new control added to REALbasic. It is almost like the Placard but is slightly modified. It is what is seen just above a list in the Finder. It has a lighter bottom border line and can be used to reproduce Finder-like list window. There are no methods or properties associated with this control.

ii) TMDCStdAlert(title As String, description as string) As Boolean

This displays a Mac OS like modal alert dialog with a red border around the edges which can be seen when an error appears in the Finder.

Dim b as boolean b=TMDCStdAlert("Error!", "The program is now forced to quit.")

iii) TMDCIconControl

This is a control to get icons from files, applications, resources, and the Mac OS. It is split up in to three sections, No-Icon, Icon ID, and lastly, Type/Creator or file. They can all be used to retrieve an icon.

No Icon

This displays no icon.

Icon ID

This can be used to retrieve an icon from a 'cicn' resource inside the project or an icon from the system such as icon number 0 for the stop icon, icon number 1 for the note icon, or icon number 2 for the warning icon. Other system icons can also be displayed. To display an icon within a resource, make sure it is included and then type in the icon resource number, usually beginning with 128 and higher. The property IconID can

change the ID from one to another. For example:

me.iconid=1

Type/Creator or File

This can retrieve the icon from either the given Type/Creator code or from a folderitem. If you know the type and creator, enter it in in the section where it asks. For the folderitem, use the following method:

SetIconFolderItem(item as FolderItem)

So, an example of this could be:

The commands *IconCreator As String* and *IconType As String* also work and can be used to change it dynamically.

iv) TMDCStdConfirmYesNo(title As String, description As String) As Boolean

This will display a standard Mac OS alert with two buttons, Yes and No. Returning **true** if Yes was selected and **false** if No was selected.

Dim b as boolean
b=TMDCStdConfirmYesNo("Yes/No", "Please press a button...")
if b then

Msgbox "Yes was selected"
else

Msgbox "No was selected"
end if

v) TMDCStdConfirmOkCancel(title As String, description As String) As Boolean

This will display a standard Mac OS alert with two buttons, OK and Cancel. Returning **true** if OK was selected and **false** if Cancel was selected.

```
Dim b as boolean
b=TMDCStdConfirmOkCancel("OK/Cancel", "Please press a button...")
if b then

Msgbox "OK was selected"
else

Msgbox "Cancel was selected"
end if
```

vi) TMDCStdSave(title As String, description As String) As Integer

This will display a standard Mac OS Save dialog with three buttons, 'Save', 'Don't Save', and lastly 'Cancel'. It will return the following integers for the button selected:

Save: 1
Cancel: 2
Don't Save: 3

This should be used now on for save dialogs as it corresponds to Apple GUI guidelines. An example to use StdSave:

vii) TMDCCustomAlert

This will allow you to build a Mac OS style custom alert with up to three buttons. To add them create a variable and add items to it. Below is a list of items you can change/add to the custom alert.

Item	Description
Title As String	Top heading
Description As String	Main text
Button1 As String	Name of button 1
Button2 As String	Name of button 2
Button3 As String	Name of button 3
Default As Integer	Default button (between 1-3)
Cancel As Integer	Cancel button (between 1-3)

To activate the alert, use .show on the variable. To find out which one was selected, use the command Selected As Integer.

For an example, please view the example file, '6) GUI & Dialog'.

VII. Registration

All of the items within this section deal with our registration system. This system is one of the most secure in the world and does not decrypt the password but create a new one from the entered information thus cannot be changed via MacsBug or an other program similar to it.

i) TMDCCheckRegistration(name As String, org As String, prod As String, code As String) As Boolean

This will check the registration by creating a new registration code with the inputted information and then check the new code with the old code. It will return **true** if it is correct or **false** if the codes do not match. You can exclude 'org' if you want but including it means that the person who enters the code will NEED to enter the exactly what was written in the 'org' section.

Dim b as boolean

Dim name, org, prod, code as string

name= "John Doe"

org= "TMDC"

prod= "MyApp"

code= "2C2F3D15-A1DD316-88FCE81C"

b=TMDCCheckRegistration(name,org,prod,code)

if b then

Msgbox "The code you entered was correct."

else

Msgbox "The code you entered was incorrect."

end if

ii) TMDCCreateNewRegistration(name As String, org As String, prod As String) As String

This will create a new code. This function is not necessary when checking the code as it would comprise the security of your program.

Dim code as string code=TMDCCreateNewRegistration("John Doe", "TMDC", "MyApp") Msgbox code

VIII. Sound

All of the items within this section deal with sound. 'ThemeDragSounds' are special sounds the computer makes when dragging. You can find the four letter codes in **Appendix A** as well as the 'ThemeSounds' there.

i) TMDCBeginThemeDragSound(id As String) As Boolean

This will start a theme drag sound, a sound which plays while moving the mouse around. In the 'id' part, enter a 4 letter code which tells which sound to play. You can find the list of codes in **Appendix A**. In the example below, you will hear a scroll bars sound when you drag it.

Dim b as boolean b=TMDCBeginThemeDragSound("slth")

ii) TMDCEndThemeDragSound() As Boolean

This will end the theme drag sound. You must include this somewhere otherwise the sound will continue throughout the use of the machine until another application stops the drag sound.

Dim b as boolean b=TMDCEndThemeDragSound

iii) TMDCPlayThemeSound(id As String) As Boolean

This will play a theme sound. A list of four letter codes (or IDs) can be found in **Appendix A**.

Dim b as boolean b=TMDCPlayThemeSound("wzme")

iv) TMDCSetSystemVolume(vol As Integer) As Boolean

This will set the system sound volume. Enter an integer between 0 and 256 where 0 is mute and 256 is the maximum.

Dim b as boolean b=TMDCSetSystemVolume(128)

v) TMDCMADPlayer

This will play MAD music files. This is a class with four properties.

Property	Description
File As FolderItem Playing As Boolean	The MAD file to play Whether the MADPlayer is playing
Position As Integer	The current position
Length As Integer	The length of this music

Example:

```
dim p as TMDCMADPlayer
dim f as FolderItem
f = GetOpenFolderItem("MAD")
if f <> nil then
    p = new TMDCMADPlayer
    p.file = f
    p.playing = true
    ProgressBar1.value = p.position
    ProgressBar1.maximum = p.length
end if
```

Please not that the TMDCMADPlayer uses MAD playing functions similar to those of PlayerPRO, by Ives Rosset. This implementation of the MAD player can only play MAD files, which can be created using PlayerPRO.

IX. Networking

All of the items within this section deal with uploading and downloading from and to a server.

i) TMDCURLDownload(url As String, file As FolderItem) As Boolean

This will download a file to the folderitem selected. This can download off both HTTP and FTP servers and will display a Mac OS dialog which looks like a Finder copy window but is for downloading from servers.

ii) TMDCURLAccessAvailable() As Boolean

This will tell you if the technology to do the Upload/Download functions is available on the machine. MAc OS 8.6 or higher is required to use URLAccess.

iii) TMDCURLUpload(url As String, user As String, pass As String, file As FolderItem) As Boolean

This will upload only to FTP servers a file you have on your hard disk. Here is an example which is supposed to (but does not work) upload a file on to ftp://ftp.apple.com.

Dim b as boolean

Dim url, user, pass as string

Dim f as folderitem

url= "ftp://ftp.apple.com"

user= "sjobs"

pass= "ibook"

f=GetOpenFolderItem("anything")

if f <> nil then

b=TMDCURLUpload(url,user,pass,f)

end if

A. Appendix A

All the items in Appendix A deal with with the sound section and the four letter codes need to use the TMDCBeginThemeDragSound and TMDCPlayThemeSound functions.

i) Below is a list of four letter codes which can be used with the function TMDCBeginThemeDragSound. These codes are case sensitive.

Item	Code	
MoveWindow	wmov	
GrowWindow	wgro	
MoveUtilWindow	umov	
GrowUtilWindow	ugro	
MoveDialog	dmov	
MoveAlert	amov	
Movelcon	imov	
SliderThumb	sIth	
SliderGhost	slgh	
ScrollBarThumb	sbth	
ScrollBarGhost	sbgh	
ScrollBarArrowDecreasing	sbad	
ScrollBarArrowIncreasing	sbai	
Dragging	drag	

ii) Below is a list of four letter codes which can be used with the function TMDCPlayThemeSound. These codes are case sensitive.

Item	Code
MenuOpen	mnuo
MenuClose	mnuc
MenultemHilite	mnui
MenultemRelease	mnus
WindowClosePress	wclp
WindowCloseEnter	wcle
WindowCloseExit	wclx
WindowCloseRelease	wclr
WindowZoomPress	wzmp
WindowZoomEnter	wzme
WindowZoomExit	wzmx
WindowZoomRelease	wzmr
WindowCollapsePress	wcop
WindowCollapseEnter	wcoe
WindowCollapseExit	WCOX
WindowCollapseRelease	wcor

WindowDragBoundary wdbd UtilWinClosePress uclp UtilWinCloseEnter ucle UtilWinCloseExit uclx UtilWinCloseRelease uclr UtilWinZoomPress uzmp UtilWinZoomEnter uzme UtilWinZoomExit uzmx UtilWinZoomRelease uzmr UtilWinCollapsePress ucop UtilWinCollapseEnter ucoe UtilWinCollapseExit ucox UtilWinCollapseRelease ucor UtilWinDragBoundary dbd WindowOpen wopn WindowClose wcls WindowZoomIn wzmi WindowZoomOut wzmo WindowCollapseUp wcol WindowCollapseDown wexp WindowActivate wact **UtilWindowOpen** uopn UtilWindowClose ucls UtilWindowZoomIn uzmi UtilWindowZoomOut uzmo UtilWindowCollapseUp ucol UtilWindowCollapseDown uexp UtilWindowActivate uact DialogOpen dopn DialogClose dlgc AlertOpen aopn AlertClose altc PopupWindowOpen pwop PopupWindowClose pwcl **ButtonPress** btnp ButtonEnter btne **ButtonExit** btnx ButtonRelease btnr DefaultButtonPress dbtp DefaultButtonEnter dbte DefaultButtonExit dbtx DefaultButtonRelease dbtr CancelButtonPress cbtp CancelButtonEnter cbte CancelButtonExit cbtx CancelButtonRelease cbtr CheckboxPress chkp CheckboxEnter chke CheckboxExit chkx CheckboxRelease chkr RadioPress radp RadioEnter rade

RadioExit radx RadioRelease radr ScrollArrowPress sbap ScrollArrowEnter sbae ScrollArrowExit sbax ScrollArrowRelease sbar ScrollEndOfTrack sbte ScrollTrackPress sbtp SliderEndOfTrack slte SliderTrackPress sltp BalloonOpen blno BalloonClose blnc **BevelPress** bevp BevelEnter beve bevx BevelExit BevelRelease bevr LittleArrowUpPress laup LittleArrowDnPress ladp LittleArrowEnter lare LittleArrowExit larx LittleArrowUpRelease laur LittleArrowDnRelease ladr **PopupPress** popp PopupEnter pope **PopupExit** popx PopupRelease popr **DisclosurePress** dscp DisclosureEnter dsce DisclosureExit dscx DisclosureRelease dscr **TabPressed** tabp **TabEnter** tabe **TabExit** tabx TabRelease tabr DragTargetHilite dthi DragTargetUnhilite dtuh DragTargetDrop dtdr EmptyTrash ftrs SelectItem fsel NewItem fnew ReceiveDrop fdrp fcpd CopyDone ResolveAlias fral LaunchApp flap DiskInsert dski DiskEject dske FinderDragOnIcon fdon FinderDragOffIcon fdof