PrivateFile

PrivateFile SERVER

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Encryption/Decryption Component

Version 5.5
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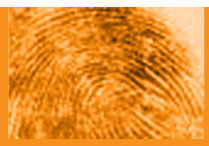

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1. Introduction

This document describes how to use the PrivateFile Encryption and decryption functions. These functions can be used to encrypt/decrypt a single file and to choose whether compression should be used as well as whether a self-decrypting version should be produced.

2. Overview

The PrivateFile encryption DLL can be called directly from VB or vbscript (e.g. from an asp page).

3. Setup

PrvateFileServer.zip contains the complete installation.
The 3 setup files are in the pfileatl subdirectory.

There are 3 file used in the setup –

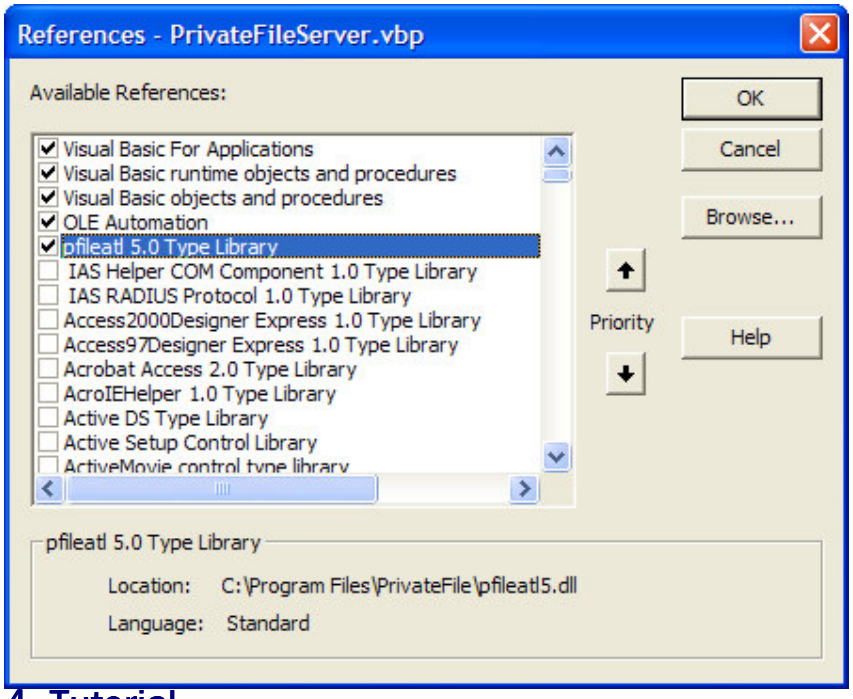
pfileatl5.dll,
*sfxtract.bx_*
*sfxtract.sx_*

The following section describes the steps.
Copy the 3 files into a directory e.g. c:\pfileatl. All files must go into the same directory
Register the DLL from a DOS command using
regsvr32 c:\pfileatl\pfileatl5.dll

*Sfxtract.bx_* and *.sx_* are needed when producing selfdecrypting exes. The .bx_ version is used when the file is compressed before transmission. The .sx_ version is used when there is no compression.

NOTE! All these files should have their **read-only** attributes turned **off**.

That completes the setup.



4. Tutorial

There is a VB sample program (**PrivateFileServer)** which shows how to use this functionality from a VB program.
Note! To add support to your VB program for PrivateFile. Goto **Project|References** in VB and select **pfileatl 5.0 Type Library** as shown below

5. API

- *SrvrEncryptFile(sKey as String, sFileName as String, iCompress as integer, iSelfDecrypt as integer*)
    - Where:
        - *sKey* is the key that is used to encrypt the file. This must be between 8 and 32 characters long.
        - *sFileName* is the full pathname of the file to encrypt.
        - *iCompress* indicates whether the file is to be compressed or not. A **1** indicates that the file should be compressed. A **0** indicates that it should not be compressed.
        - *iSelfDecrypt* indicates whether a self decrypting file should be created. A **1** indicates that a self-decrypting file should be created. A **0** indicates that a self decrypting file should not be created.
    - Return Value. If the function worked correctly 0 is returned else a non-zero value is returned. Use **GetCurrentStatus** to find out more information on the problem.

- *SrvrDecryptFile(sKey as String, sFileName as String*)
    - Where:
        - *sKey* is the key that is used to encrypt the file. This must be between 8 and 32 characters long.
        - *sFileName* is the full pathname of the file to encrypt.
    - Return Value. If the function worked correctly 0 is returned else a non-zero value is returned. Use **GetCurrentStatus** to find out more information on the problem.

6. Examples

```
Dim rc As Integer
   Dim pf As PFILEATLLib5.PFileCom
   Set pf = New PFILEATLLib5.PFileCom
   Screen.MousePointer = vbHourglass
   lblStatus.Caption = "Encrypting " + Me.txtClearTextFile + " ..."

   rc = pf.SrvrEncryptFile(Me.txtKey, Me.txtClearTextFile, 1, 0)

   Screen.MousePointer = vbDefault
   If rc <> 0 Then           ' An error
    MsgBox pf.GetCurrentTask
   Else                      ' Success
    MsgBox "Success!"
   End If
   Set pf = Nothing
    lblStatus.Caption = "Select Encrypt or Decrypt ..."

   Exit Sub
```

Rc = SrvrEncryptFile("password","c:\test.txt",1,0)

- This means that the file c:\test.txt should be encrypted using the key **password** and it should be compressed. It should not create a self-decrypting file. The encrypted file will be stored in **c:\test.txt.pfs**

The desktop version of **PrivateFile** can be used to decrypt the .pfs files

If *rc<> 0* then use *GetCurrentTask* to see what the problem was.

ASP Usage

To use from an ASP page the syntax is almost exactly the same. This sample decrypts a file

```
Dim rc,pf,txtError
Set pf = Server.CreateObject("Pfileatl5.PFileCom")

rc = pf.SrvrDecryptFile("password", "C:\test.txt")
If rc <> 0 Then
 txtError = pf.GetCurrentTask
Else
 txtError = "Success!"
End If
Set pf = Nothing
```