

T - SAFE

Envelope User Guide

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1. General

T-Safe Envelope allows binding multiple files in to a single executable. The new enveloped executable is a binary file and it is very difficult to reverse engineer the file.

Normally when you use a software protection tool, you use a DLL to verify authorisation key from a hardware [it can be a dongle, USB flash drive, or any other device].

The hacker or cracker normally create an identical DLL to by-pass the functions or produces a duplicate hardware.

When you envelope the DLL and all other files in to a single executable, by-pass technique do not work as you have a single executable.

Envelopes can be used for one or more of following:

- Bind main program and DLL'S together
- Bind main program and its data file [for example a PDF with PDF Reader]
- Run legacy software on advanced OS [for example a VB6 application for Vista and Win 7] by creating a single file which will not need installation
- Prevent reverse engineering of software
- Protect software with dongles / USB key or any other security tool.

Normally it is very easy to reverse engineer a .net program or any other program as disassemblers are easily available, normally free from web. Envelope will safeguard your programs from disassemblers.

Note:

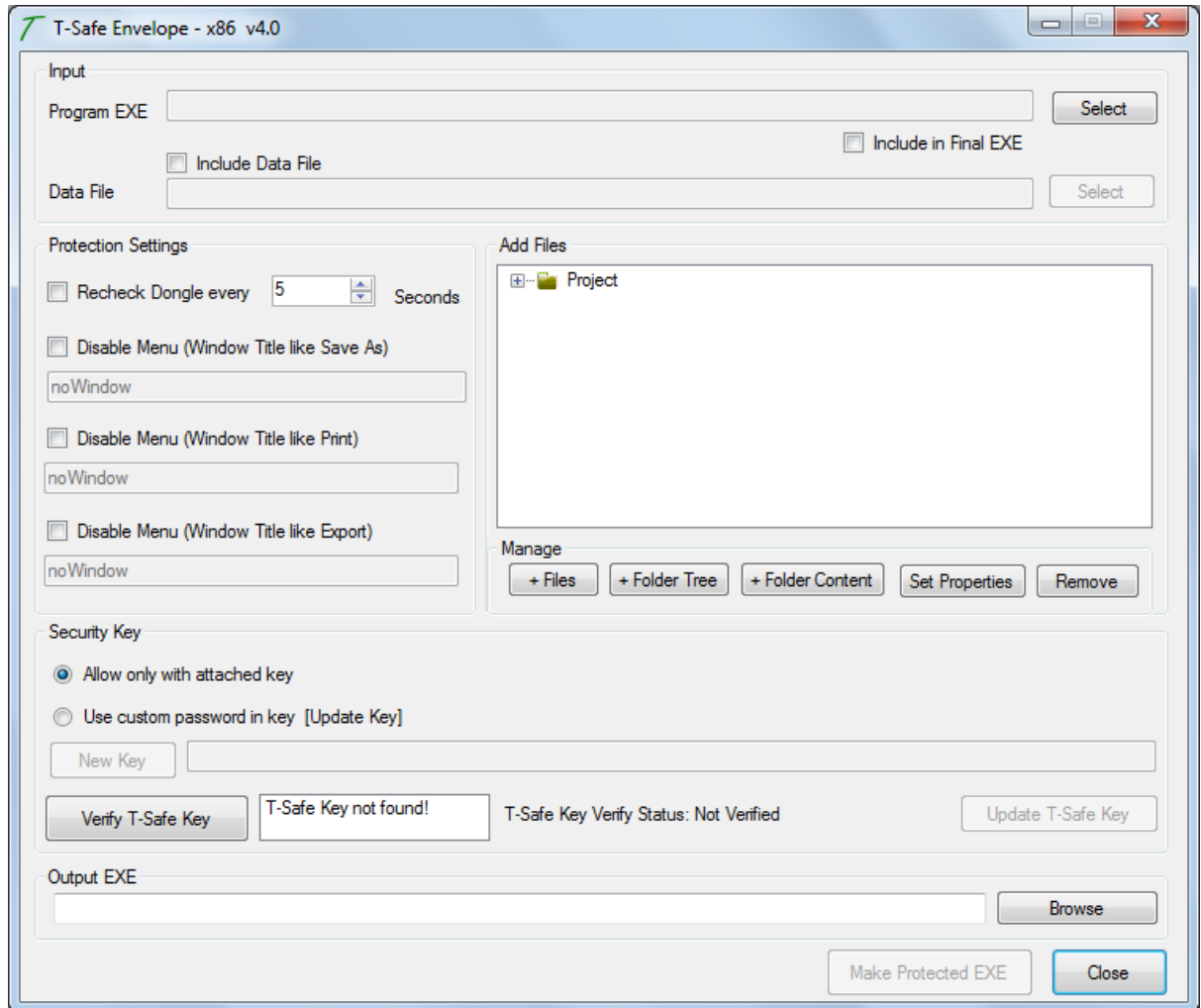
It allows creating single protected EXE from an executable and any number of other files like plug-in, DLL, COM, OCX etc.

2. Pre-Requisites

The enveloper requires Microsoft Dot Net Framework 2.0 / 4.0

The final EXE which is distributed to end user will also require Microsoft Dot Net Framework.

3. Application user Interface



4. Input File

The input file must be an executable file. The envelope will run this file only. Other files will depend on this first executable and can be used from inside this application or as a link.

1. Check this checkbox if you want to bind the Executable EXE in Output EXE. **Otherwise** keep it unchecked.

2. Choose Executable File by clicking on the Select button.

Input
Program EXE
 Include Data File Include in Final EXE
Data File

3. Select the data files you want to protect with this EXE by first clicking on the check box as pointed. (Optional)

Make sure you have ownership or distribution rights for the program if included in Final EXE.

Input
Program EXE
 Include Data File Include in Final EXE
Data File

4. Select the data file. If “Include Data File” is checked.

The screenshot shows a software protection interface with the following elements:

- Input** section:
- Program EXE**: Text box containing `C:\Users\Sony\Desktop\T-Safe Envelope\iPdf Viewer.exe` and a **Select** button.
- Include Data File**: A checked checkbox.
- Include in Final EXE**: A checked checkbox.
- Data File**: An empty text box and a **Select** button.

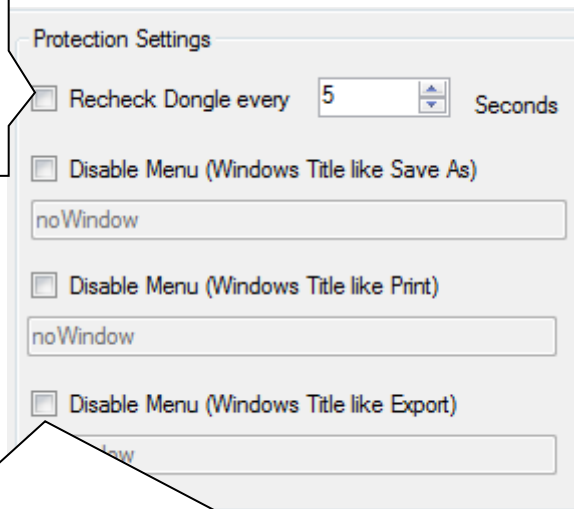
Image showing Filled data

The screenshot shows the same software protection interface as above, but with the following data filled in:

- Program EXE**: `C:\Users\Sony\Desktop\T-Safe Envelope\iPdf Viewer.exe`
- Include Data File**: Checked checkbox.
- Include in Final EXE**: Checked checkbox.
- Data File**: `C:\Users\Sony\Desktop\T-Safe Envelope\in.pdf`

5. Protection Settings

1. Check this check box to verify presence of dongle periodically as per setting else default setting will be used. (Optional)



Protection Settings

Recheck Dongle every 5 Seconds

Disable Menu (Windows Title like Save As)
noWindow

Disable Menu (Windows Title like Print)
noWindow

Disable Menu (Windows Title like Export)
noWindow

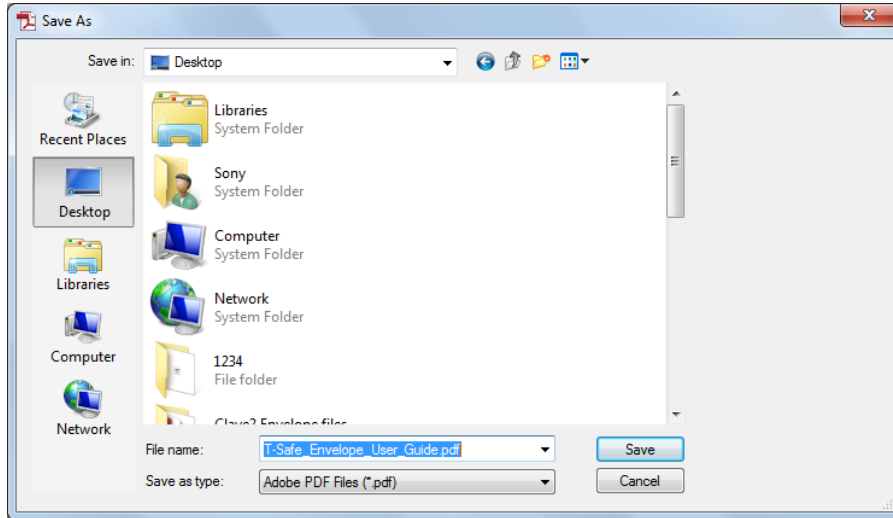
2. Check these check boxes (up to three) and type Window Title which opens on clicking the menu to stop that menu.

For example, to stop "Save As", check the title of the window which opens for that application. Enter the title here. Normally it is "Save As" but it could be different.

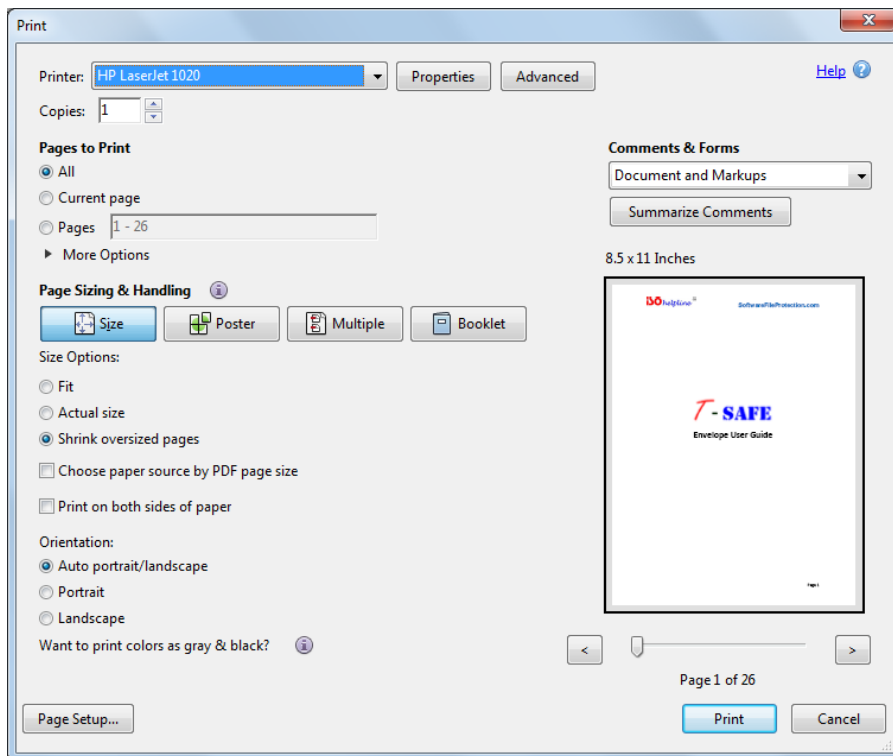
Similarly you can prevent Export, File Open, Print, or any other menu which opens a new window.

Examples:

- a. Save As Screen of Adobe Acrobat version X [this could be different for various versions]



- b. Print screen of Adobe Acrobat version X [this could be different for various versions]



6. Add Files

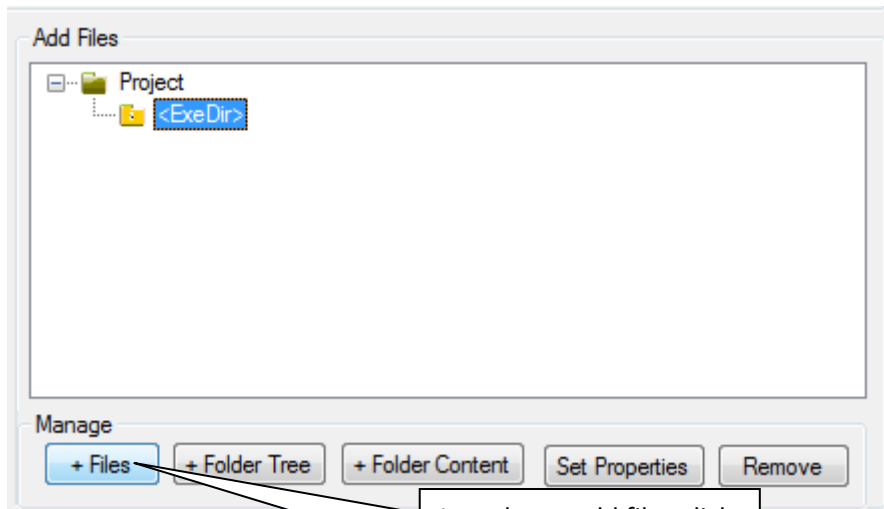
This field allows you to add and remove multiple files, folders, contents inside the folder and also to set the properties of the files and folders.

- To add a file, click on "**+ Files**".
- To add a folder along with its contents, click on "**+ Folder Tree**".
- To add only the contents of the folder, click on "**+ Folder Content**".
- To remove a file or any folder, select the particular file or folder, and then click on "**Remove**".
- To change the file or folder properties select the particular file or folder and click on "**Set Properties**", a "**File Properties**" editor dialog will appear. [**Set Properties** is explained later]

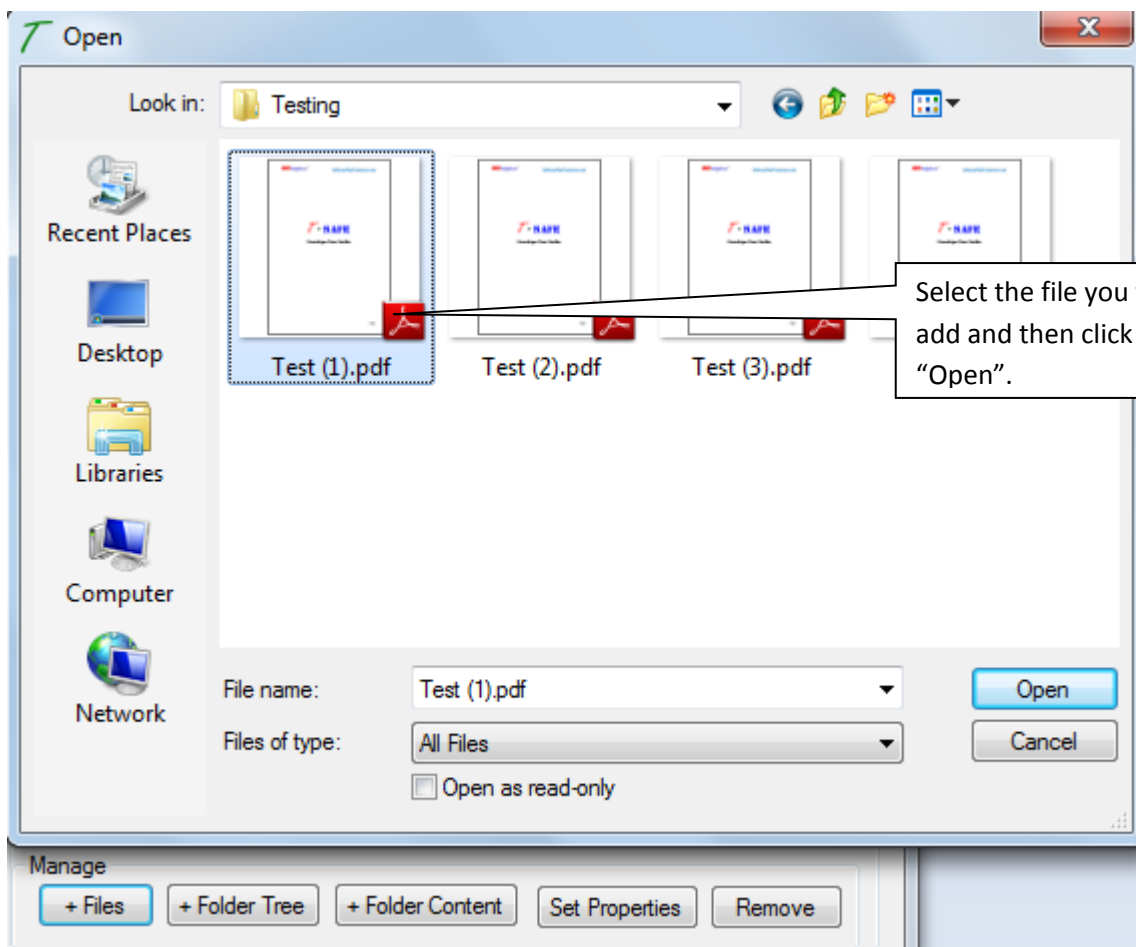
For fast and proper binding, copy all files you want to add in the EXE in the enveloper folder keeping desired directory structure.

6a. Adding Files

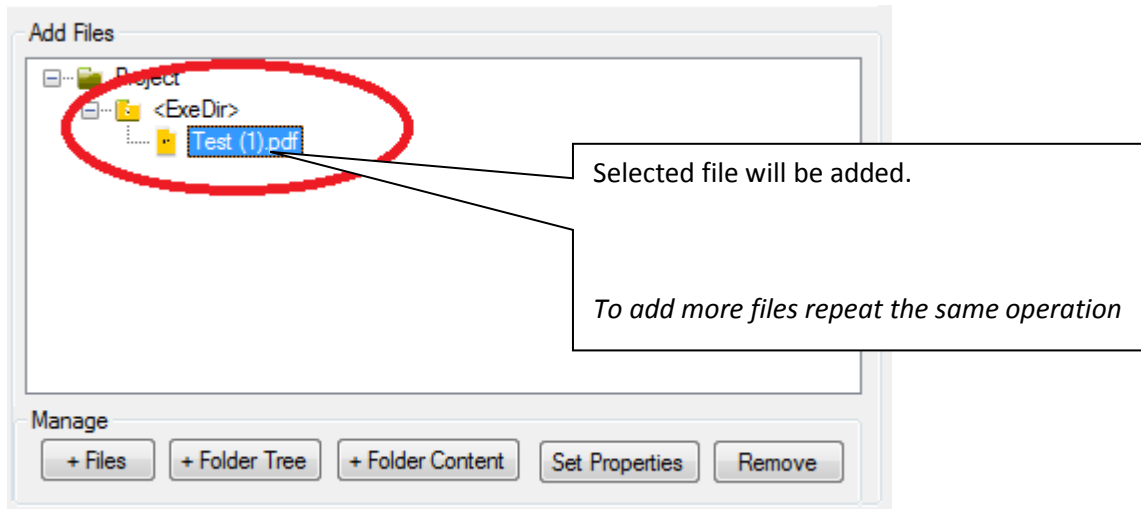
To add a file, click on "+ Files".



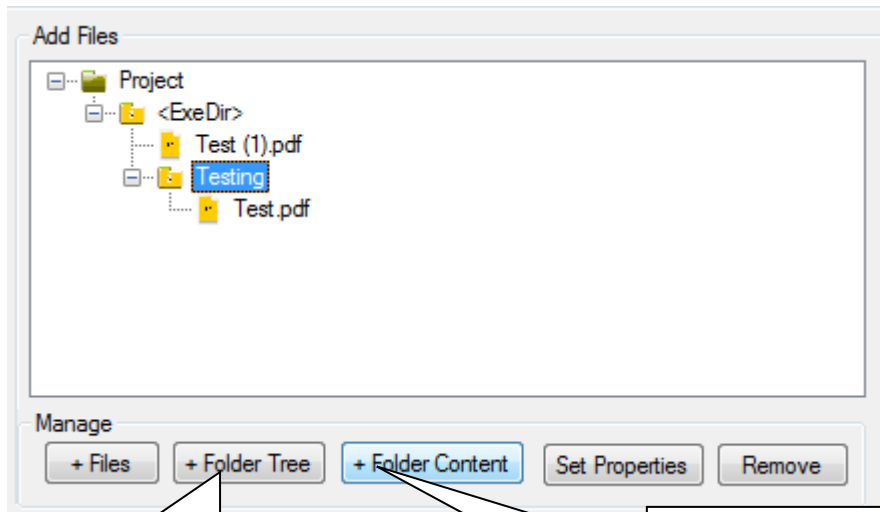
In order to add files click on the "+ Files" which will open a new dialog.



Select the file you want to add and then click on "Open".

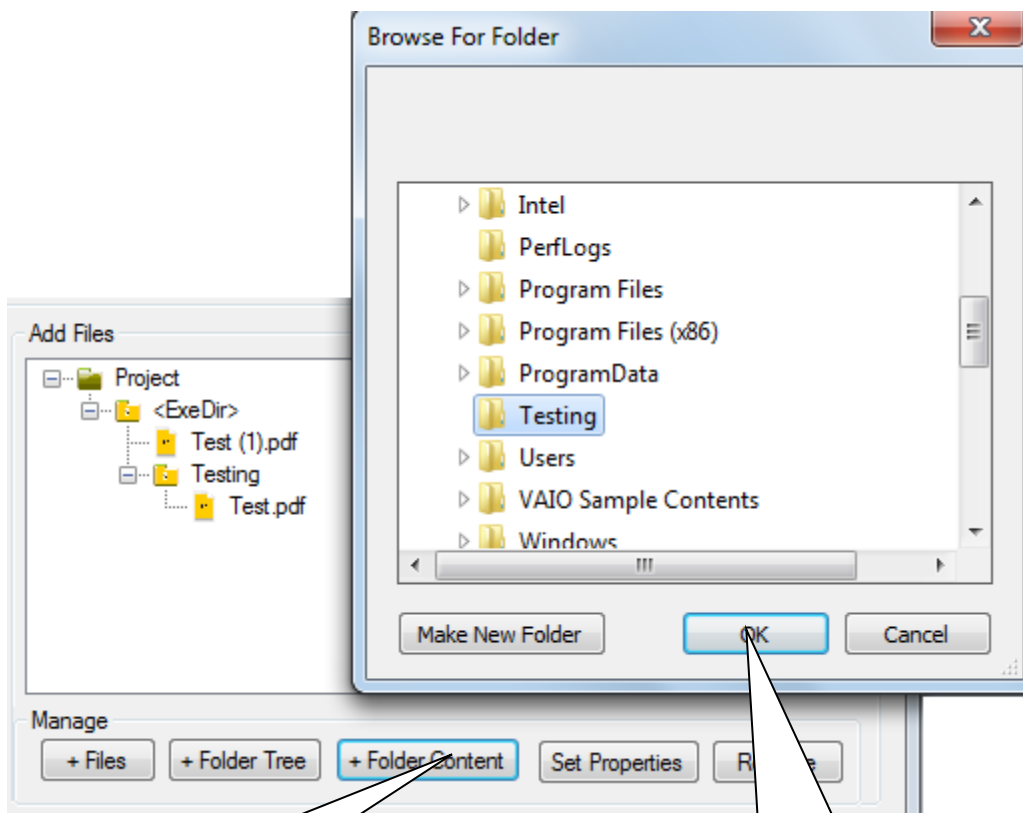


6b. Adding Folders



You can add folder and its contents by clicking on the
“+ Folder Tree”

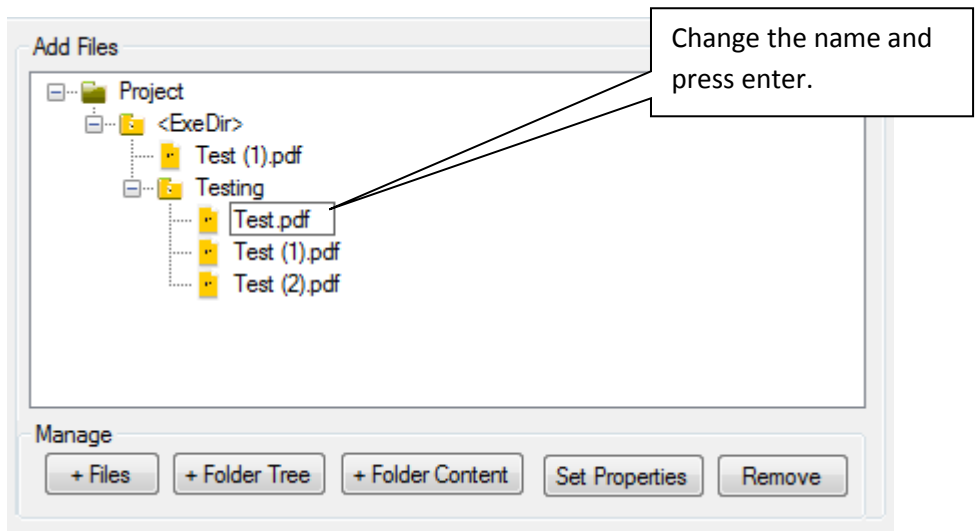
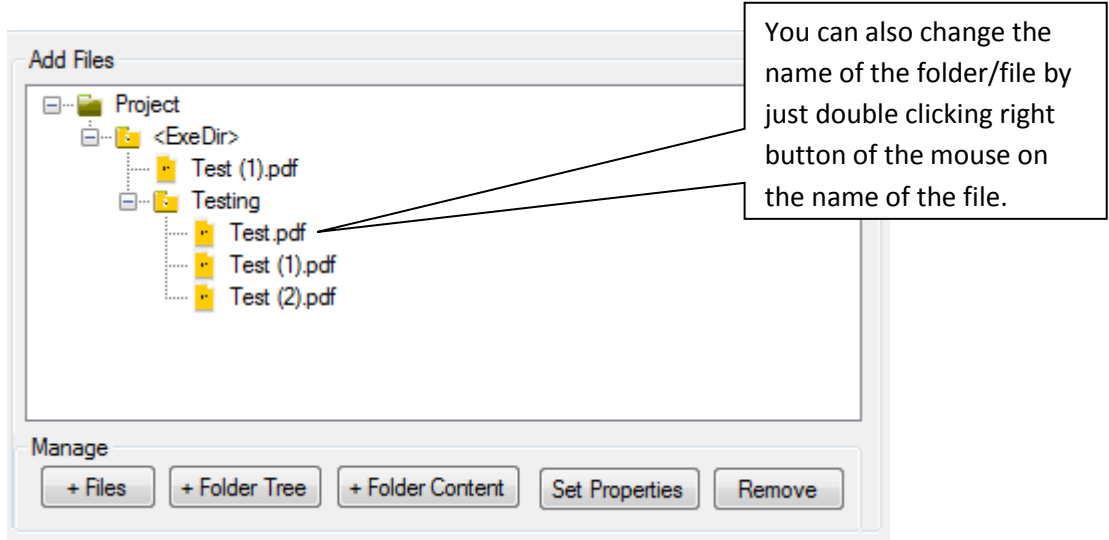
You can add contents of the folder [and not the folder itself] by clicking on the
“+ Folder Content”



1. Press on “+Folder Content” which will open this dialog.

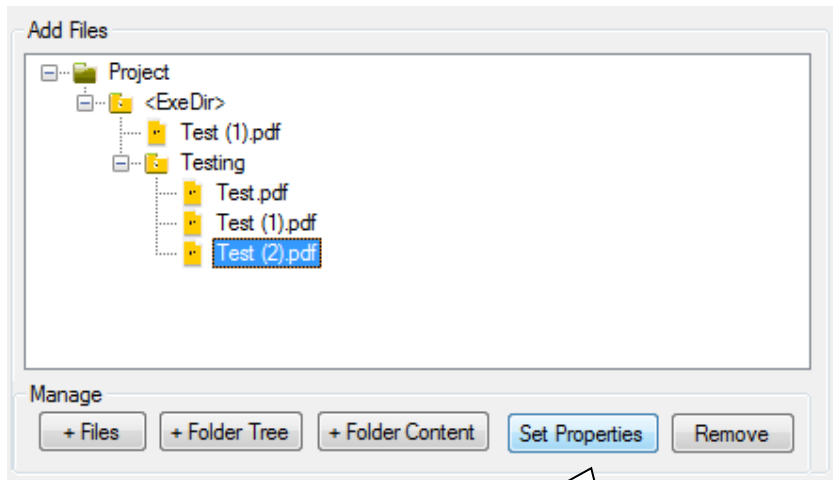
2. Browse the folder whose content you want to add, and then press OK.

6c. Renaming files and folders

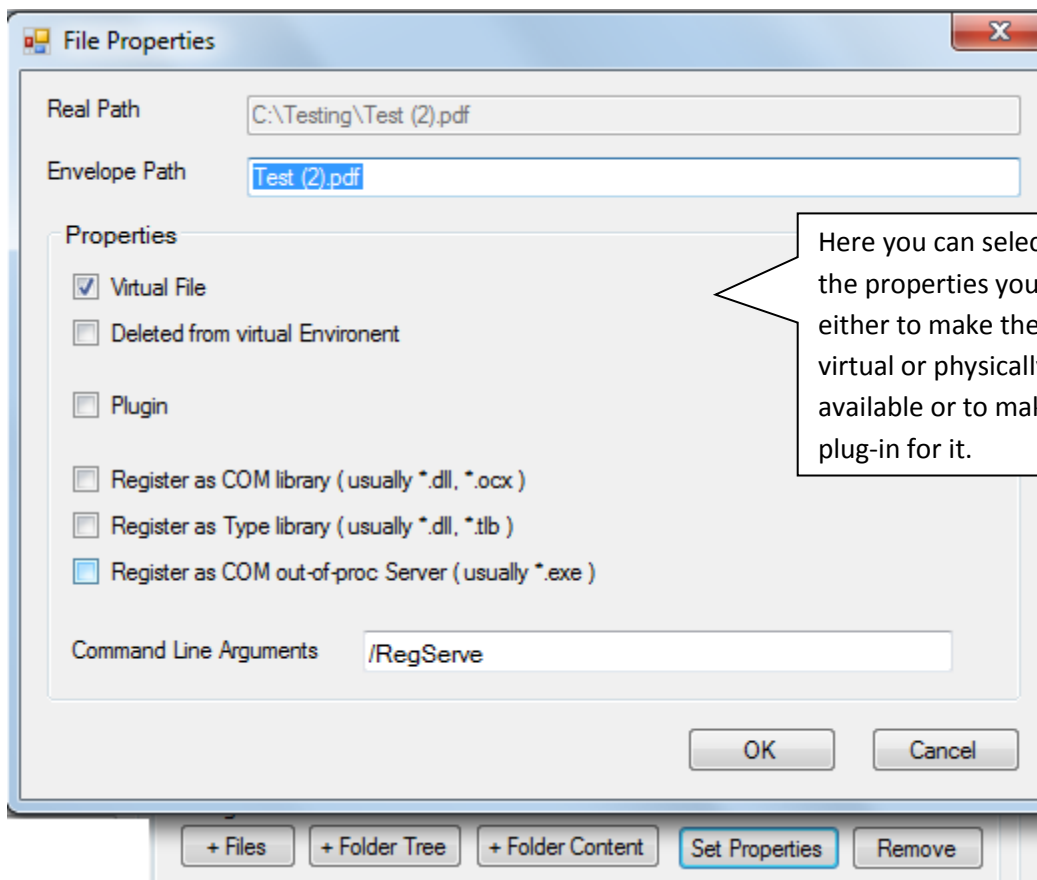


6d. Setting File Properties

For setting the properties of the file or folder, click on **“Set Properties”** and do the following.



You can set the properties of the file or folder by selecting the particular file or folder and press on **“Set Properties”**.



Virtual File:

If you do not want file to be accessible to normal user, make it as virtual through clicking on the virtual property of that file. It will be accessible only to your application. In some cases, if sub process [second application running from the envelope] is not able to access your file, uncheck it.

To mark the file as virtual, select the "**Virtual File**" checkbox. Virtual file is a file which will be embedded in the resulting exe. The path where the virtual file will be created when the application starts is specified in the virtual path field. It can be (and normally is) a relative path.

Deleted from virtual Environment:

Check if file is not to be used by any additional or sub process [second application running from the envelope]

Plug-in:

An individual category of files is plug-in. They are DLLs that expand the functionality of the application being created.

To add the plug-in, add it by clicking on the "**Select**" button. Plug-in can also be embedded in the exe to be generated or, they can be stored along with it.

Register as COM Library:

COM/ActiveX components are traditionally registered in the system registry to allow the corresponding Windows API functions find the modules (DLL or EXE) that contain the code of the components.

A major problem that occurs with the registration is the lack of user privileges, necessary for writing to the registry.

Also, when creating portable applications, it is important to be able to run applications without prior installation.

When adding a new file to the project, you can specify that it's an ActiveX / COM library, and it needs to be registered in the virtual registry when the application starts.

For example, suppose your application plays flash movies. Then you simply add the flash.ocx file and specify that this file is virtual, "check" "Register as COM Library [dll/ocx]" checkbox - and your application no longer depends on whether or not the client computer has a flash player installed.

Why does that happen? The thing is that when the application starts, it calls the function for registering the specified ActiveX at the same time, for the time the function is running a special flag remains set, and all changes are saved in the virtual environment. In other words, the real registry doesn't get modified, and the rest of the application's code runs just as if the ActiveX was actually installed in the system.

And what's especially important is that the modification of the original exe isn't required.

Register as Type Library:

If your file is a type library and requires registration before use, check this and your application will run as if type library is registered

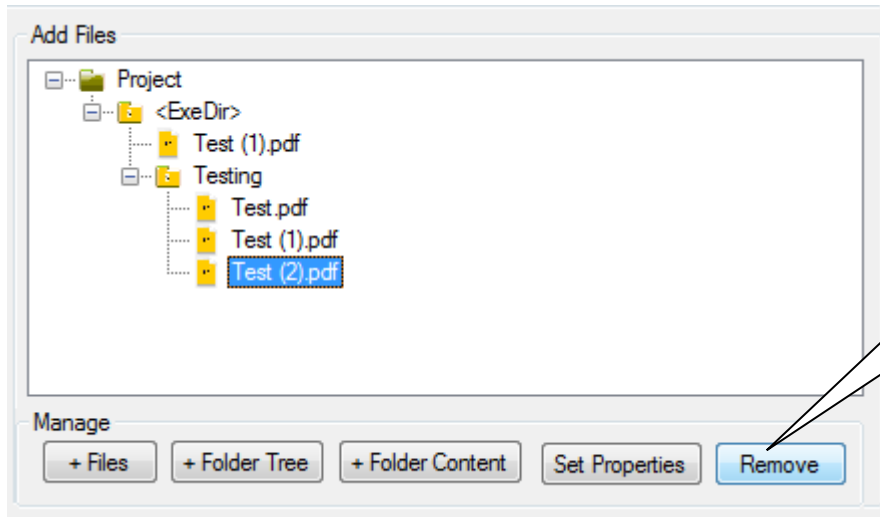
Register as COM out-of-proc server:

In-process COM servers (in a DLL) are normally more efficient than out-of-process servers (in an EXE, locally or on a remote machine) because data marshaling and transferring is bypassed since the client and server live in the same address space. As an example, high-performance DirectX components are always in the in-process servers. However, there are occasions that an out-of-process COM server is preferred, even locally.

If your file is an in-process COM server, select this option.

6e. Remove a file or folder

To remove a file or folder select it and click “**Remove**”.



You can also remove the file or folder by just selecting it and press on “Remove”.

7. Security Key

Allow only with attached key:

This feature allows you to create exe protected by attached T-Safe Key. It will get secured by a unique key inside dongle.

The screenshot shows the 'Security Key' dialog with the radio button 'Allow only with attached key' selected. Below it is a 'New Key' button and an empty text field. At the bottom, there is a 'Verify T-Safe Key' button, a text field containing 'T-Safe Key not found!', and an 'Update T-Safe Key' button. The status 'T-Safe Key Verify Status: Not Verified' is displayed.

Use custom password in key [Update Key]:

This feature allows you to use the custom password so that you create the exe only once and update the same in all T-Safe Keys. You must save the key for future use.

The screenshot shows the 'Security Key' dialog with the radio button 'Use custom password in key [Update Key]' selected. A callout box points to this option. Below it is a 'New Key' button and an empty text field. At the bottom, there is a 'Verify T-Safe Key' button, a text field containing 'T-Safe Key not found!', and an 'Update T-Safe Key' button. The status 'T-Safe Key Verify Status: Not Verified' is displayed.

This will generate a random key

You must update the new key in the dongle else protected file will not run. Also make sure to save this key for future use.

You must verify T-Safe Key before updating T-Safe Key

Once the T-Safe Key is updated, "Update T-Safe Key" button will be disabled.

The screenshot shows the 'Security Key' dialog with 'Use custom password in key [Update Key]' selected. The 'New Key' button is highlighted in blue, and the text field contains a long alphanumeric string: 'ngq7df9y3m84tu6m7fr2f92v29ubrxymppemqux88fe8dvgu1cr58ceu55kf1ep9f45q7krw472jetuya4nj7gfb1jgi8f8'. Below this, the status 'T-Safe Key Update Status: Success.' is shown in green. At the bottom, there is a 'Verify T-Safe Key' button, a text field containing '00033961', and a disabled 'Update T-Safe Key' button.

Attach the T-Safe Key to any USB port on your system and click “**Verify T-Safe Key**” to allow enveloper to read the security key.

The screenshot shows a window titled "Security Key". It contains two radio buttons: "Allow only with attached key" (selected) and "Use custom password in key [Update Key]". Below these is a "New Key" button and a text input field. The status "T-Safe Key Verify Status: Not Verified" is displayed. At the bottom, there is a "Verify T-Safe Key" button, a text field containing "T-Safe Key not found!", and an "Update T-Safe Key" button.

Click “**Verify T_Safe Key**” to verify the T-Safe Key and read security keys.

This field displays the **T-Safe Key** number.

The screenshot shows the same "Security Key" window. The status is now "T-Safe Key Verify Status: Success | Now make EXE." in green text. The "Verify T-Safe Key" button is highlighted in blue. The text field now displays the number "00033961".

Image showing when the T-Safe Key is attached and success message.

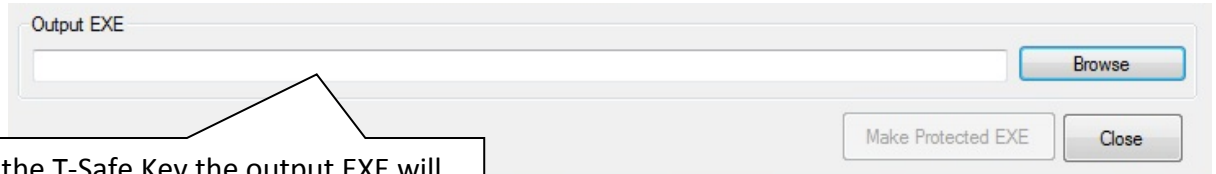
Note:

1. You can change the T-Safe Key, verify again and create new protected file.

8. Output File

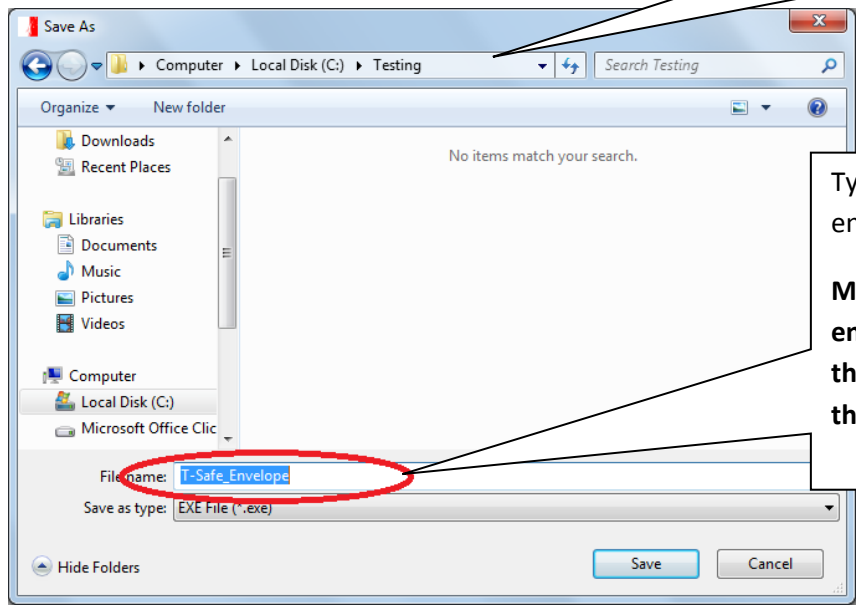
This is your final single EXE including all the files you have selected to add. Browse to the location where you want to save and give the name of the enveloped exe.

This single EXE file should be given to end user.

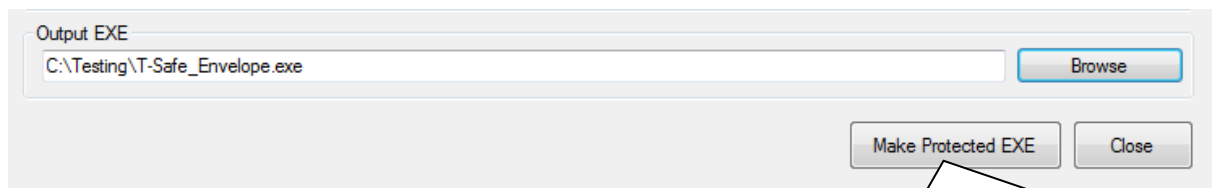


Once you verify the T-Safe Key the output EXE will get the output path same as the envelope path. You can change file name or path if required.

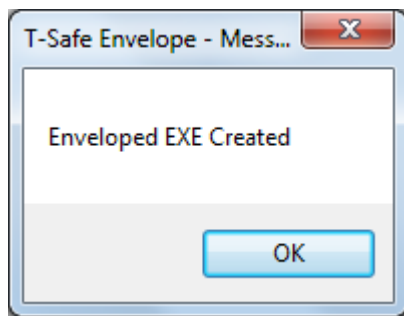
Browse to the location where you want to save the enveloped exe.



Type the name of the output enveloped exe and click on "Save".
Make sure that name of the enveloped exe must be different then original exe and any file inside the envelope.



"Make Protected EXE" button becomes active only after T-Safe Key verification. Press on the "Make Protected EXE Button" in order to create the desired protected EXE.



9. Using Final Protected File

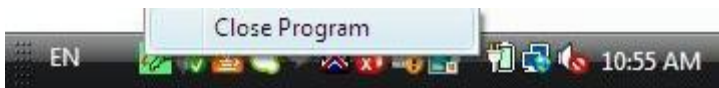
Run the new protected file [an EXE] like a normal program.

The file / program will run only if specific T-Safe Key is attached to the system.

On running the file / program, an icon will be displayed at the task bar and will remain until it is closed [after closing file / program]

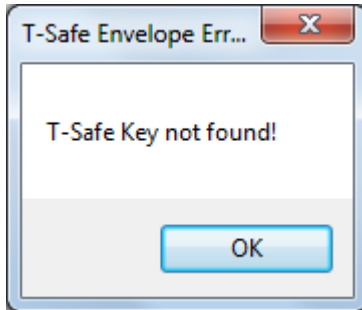


When you close the protected file / program, close the envelope also by right click or left click on the icon and clicking **“Close Program”**.

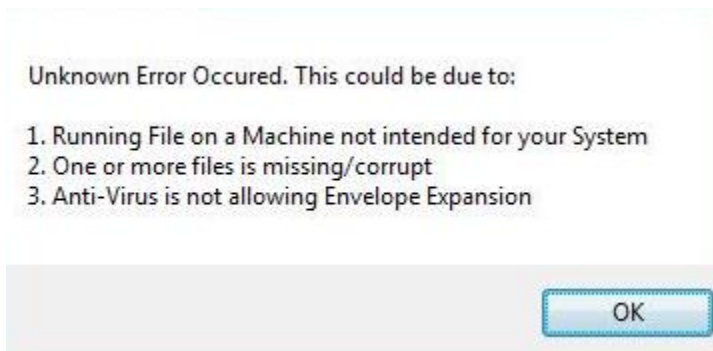


This additional closer of envelope is added in recent revision because some anti-virus systems were recognising envelope as “suspicious program”.

10. Error Messages while creating envelope



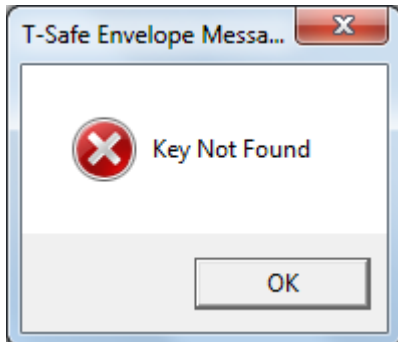
“T-Safe Key Not Found!” error message appears if the user has not attached the T-Safe Key or not attached the appropriate developer supplied T-Safe Key while creating the EXE.



During envelope creation, you may encounter above error message. The resolution could be as follows:

1. Make sure that files you have added are available and they are not corrupt
2. Disable anti-virus and try again
3. Copy the Program EXE in the enveloper folder [or vice versa] and try.
4. Before adding file, copy them in enveloper folder [keeping desired directory structure].

11. Error Messages while running enveloped EXE



“Key Not Found” error message appears if the user has not attached the T-Safe Key or not attached the appropriate vendor supplied T-Safe Key while executing the EXE.

Contact:

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