

Win10XPE - How To Quick Start Guide

Download the [XPE Project File](#) and extract the file...

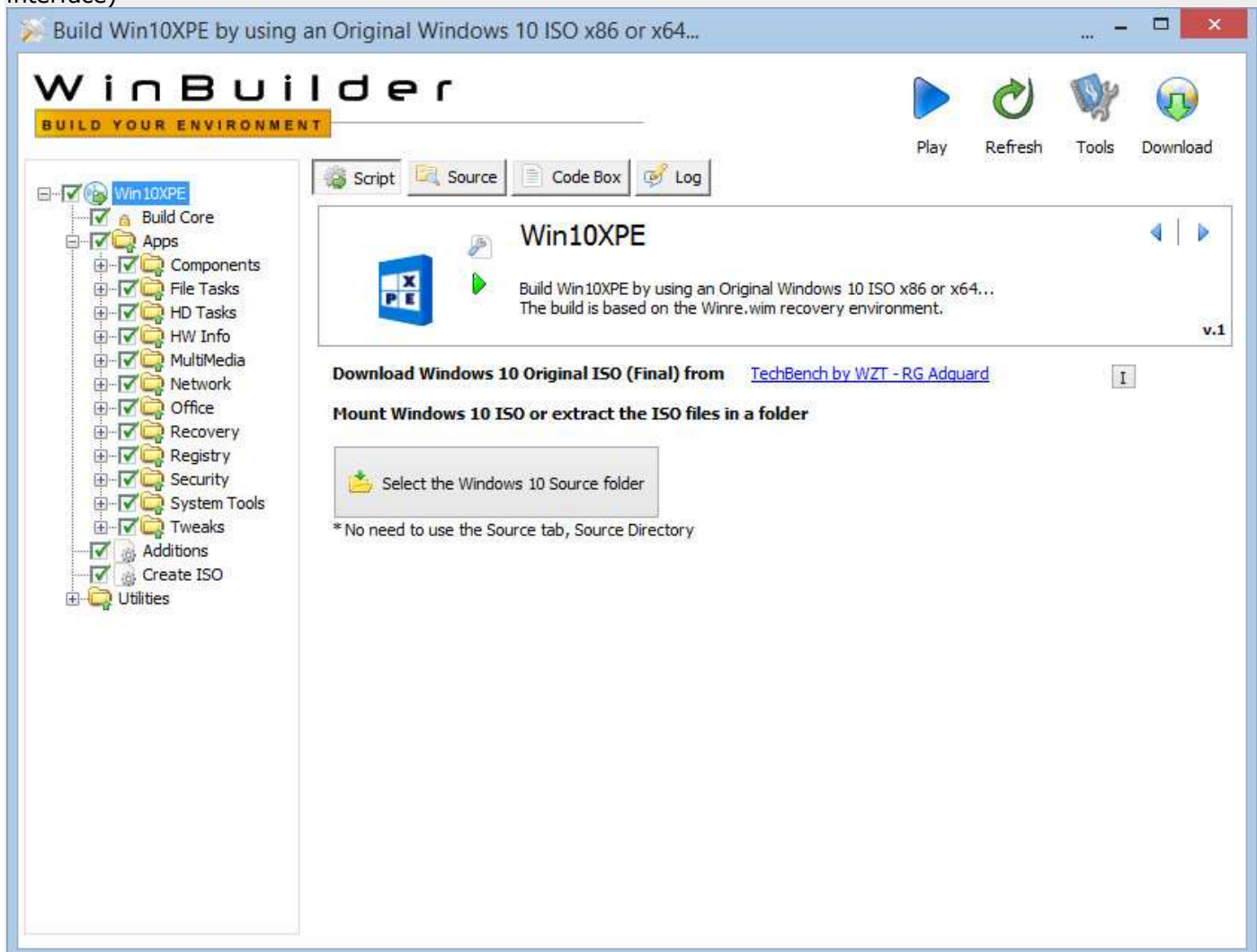
Copy Win10XPE folder to your Data Drive. (I prefer to use my D drive rather than my C Drive as to keep away from OS..)

If using Windows 10 as your Host OS - you will need to allow a Windows Defender "Exception" for the Win10XPE folder (I would suggest the same exception for any A/V software) in order to allow the program exe's to run without being blocked....

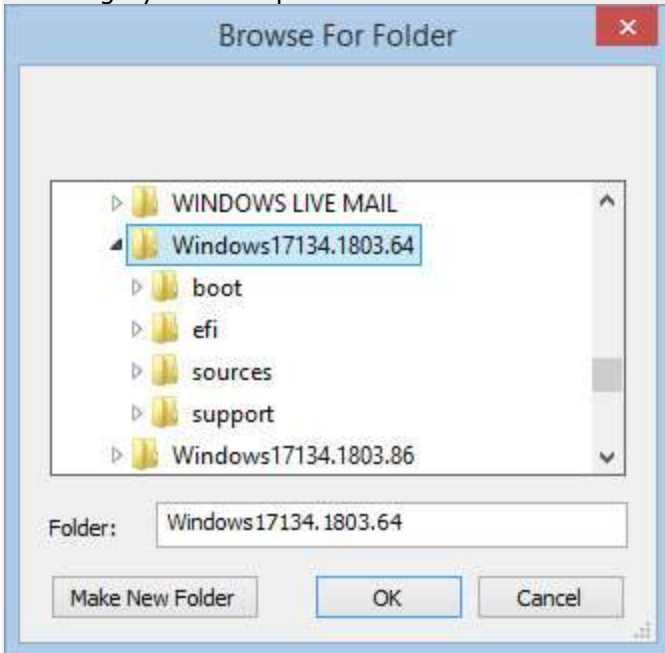
Then Mount Your Official Release Windows 10 Setup Media ISO (it is suggested that you copy the contents of the setup media to a folder on your Data Drive and select it as the source) but it is not required..

Note: We do not add support for MS Preview Releases - all projects use Official MS Release Media

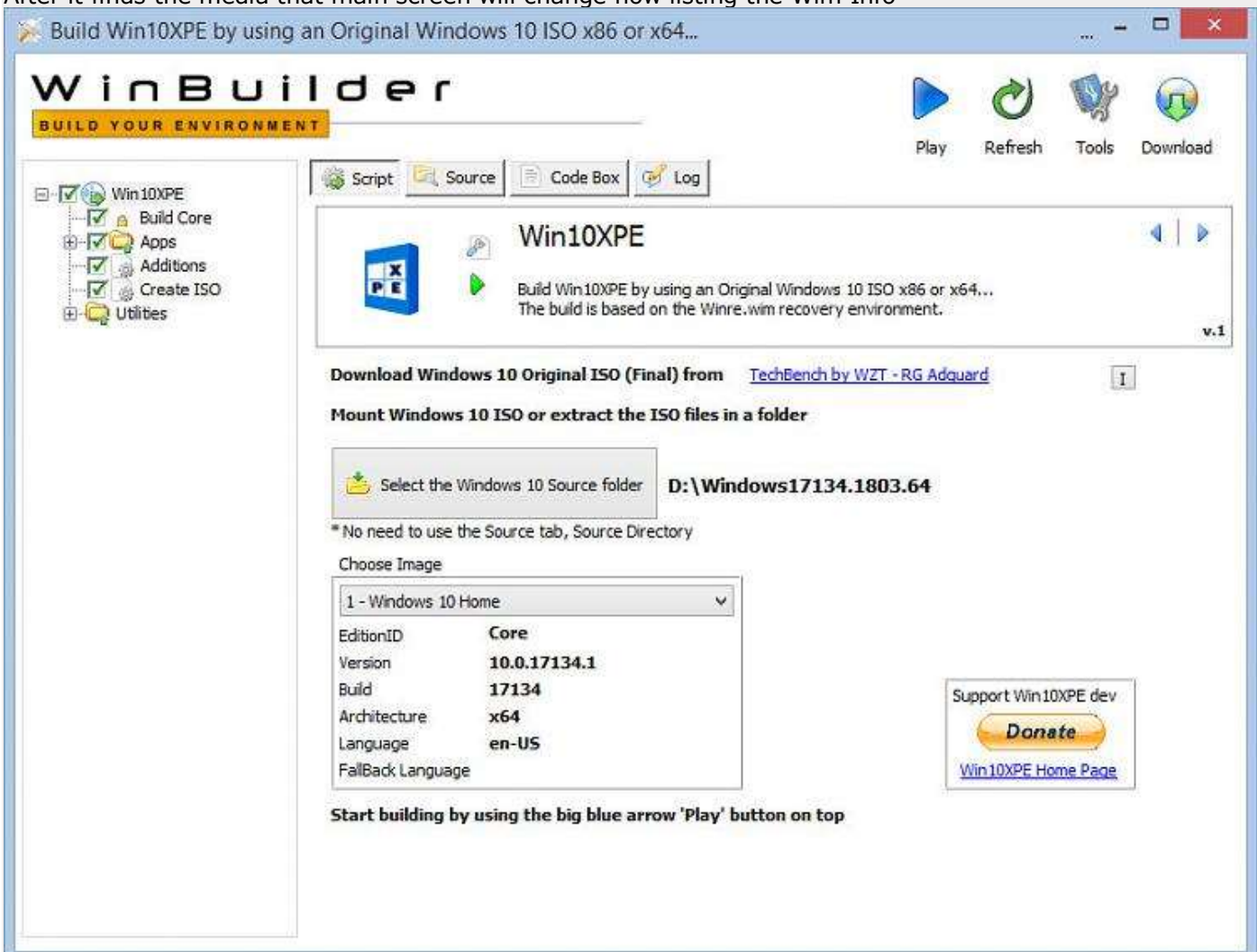
When you run the Win10XPE.exe the builder will open (**Note:** A link to Official Media Download is present on interface)



Hit the gray box and point to the folder location or drive letter of the Setup Media..



After it finds the media that main screen will change now listing the Wim Info



You can use the scroll box to select "Pro" or make any other selection..
Then Hit the Big Blue Play Button....

The screenshot shows the WinBuilder application window titled "Build Win10XPE by using an Original Windows 10 ISO x86 or x64...". The interface includes a sidebar with a tree view containing "Win10XPE", "Build Core", "Apps", "Additions", "Create ISO", and "Utilities", all of which are checked. The main area features a "Win10XPE" header with a description: "Build Win10XPE by using an Original Windows 10 ISO x86 or x64... The build is based on the Winre.wim recovery environment." Below this, there are instructions to "Download Windows 10 Original ISO (Final) from TechBench by WZT - RG Adguard" and to "Mount Windows 10 ISO or extract the ISO files in a folder". A text box indicates the selected source folder is "D:\Windows17134.1803.64". A note states: "* No need to use the Source tab, Source Directory". Under "Choose Image", a dropdown menu shows "6 - Windows 10 Pro". A table displays the following details: EditionID: Professional, Version: 10.0.17134.1, Build: 17134, Architecture: x64, Language: en-US, and FallBack Language. A "Donate" button and a link to "Win10XPE Home Page" are also visible. At the bottom, a bold instruction reads: "Start building by using the big blue arrow 'Play' button on top".

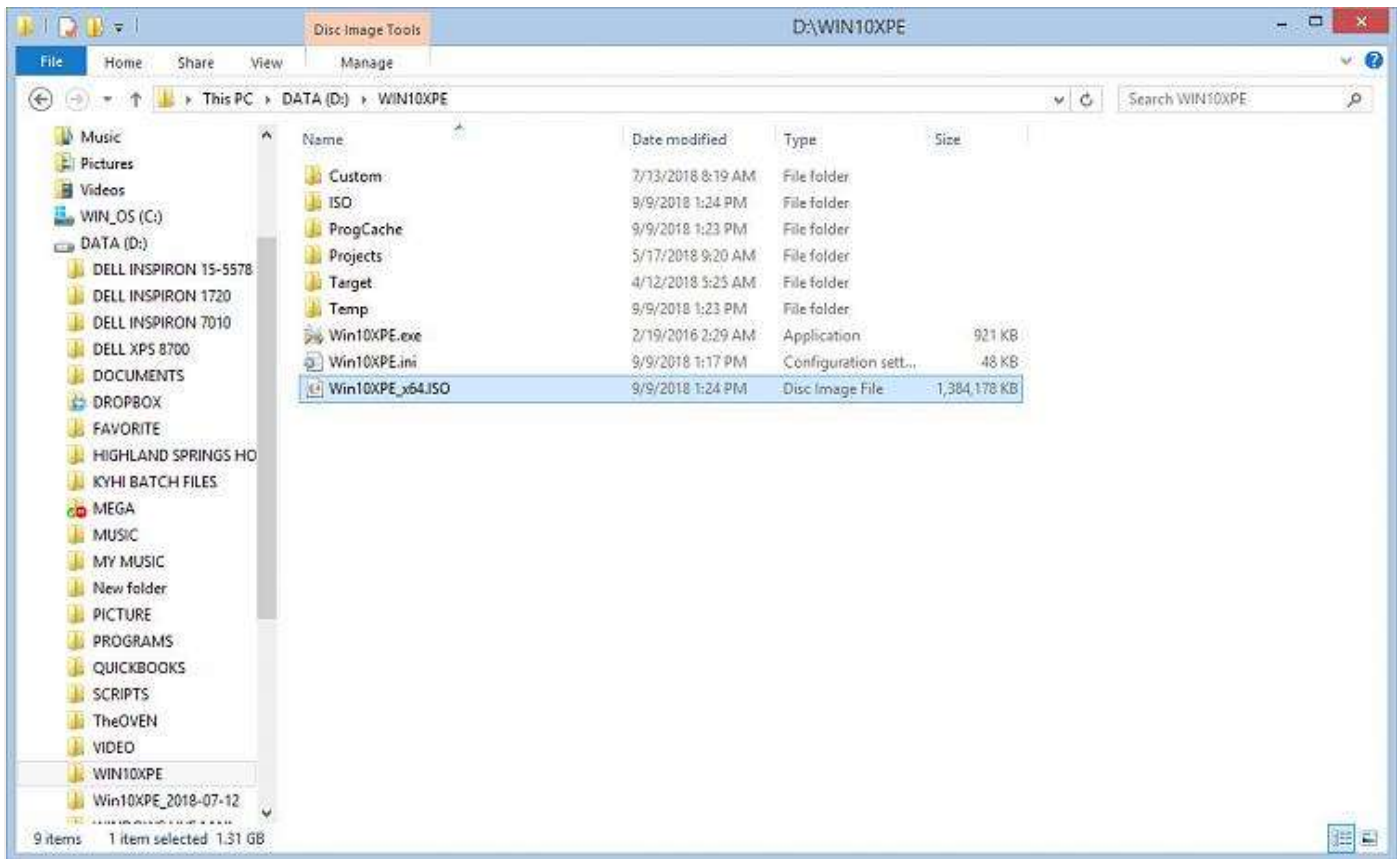
Sit back, watch and relax as the program runs...

It will download several programs and features (Please allow it to do so) these downloads are designed as First Run only.

XPE will open command prompt to extract files, download and run program commands (Please allow it to do so)

After The Builder Finishes you will get an OK message..

Browse to the folder location of Win10XPE and you will find your Custom ISO...

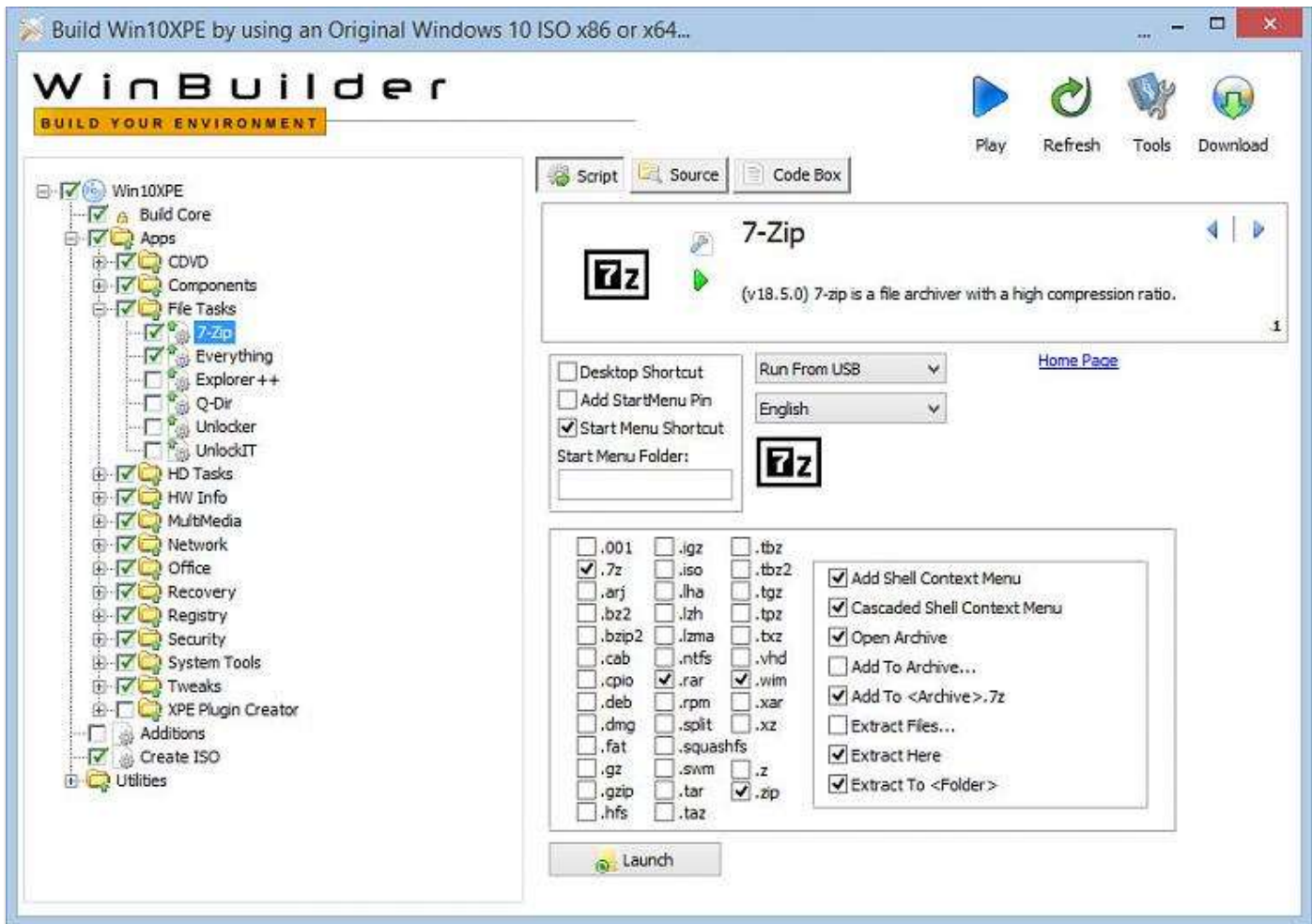


Now that you have created your FIRST custom PE with the default selections..

You can change those selections by checking or unchecking program checkboxes in the left pane..

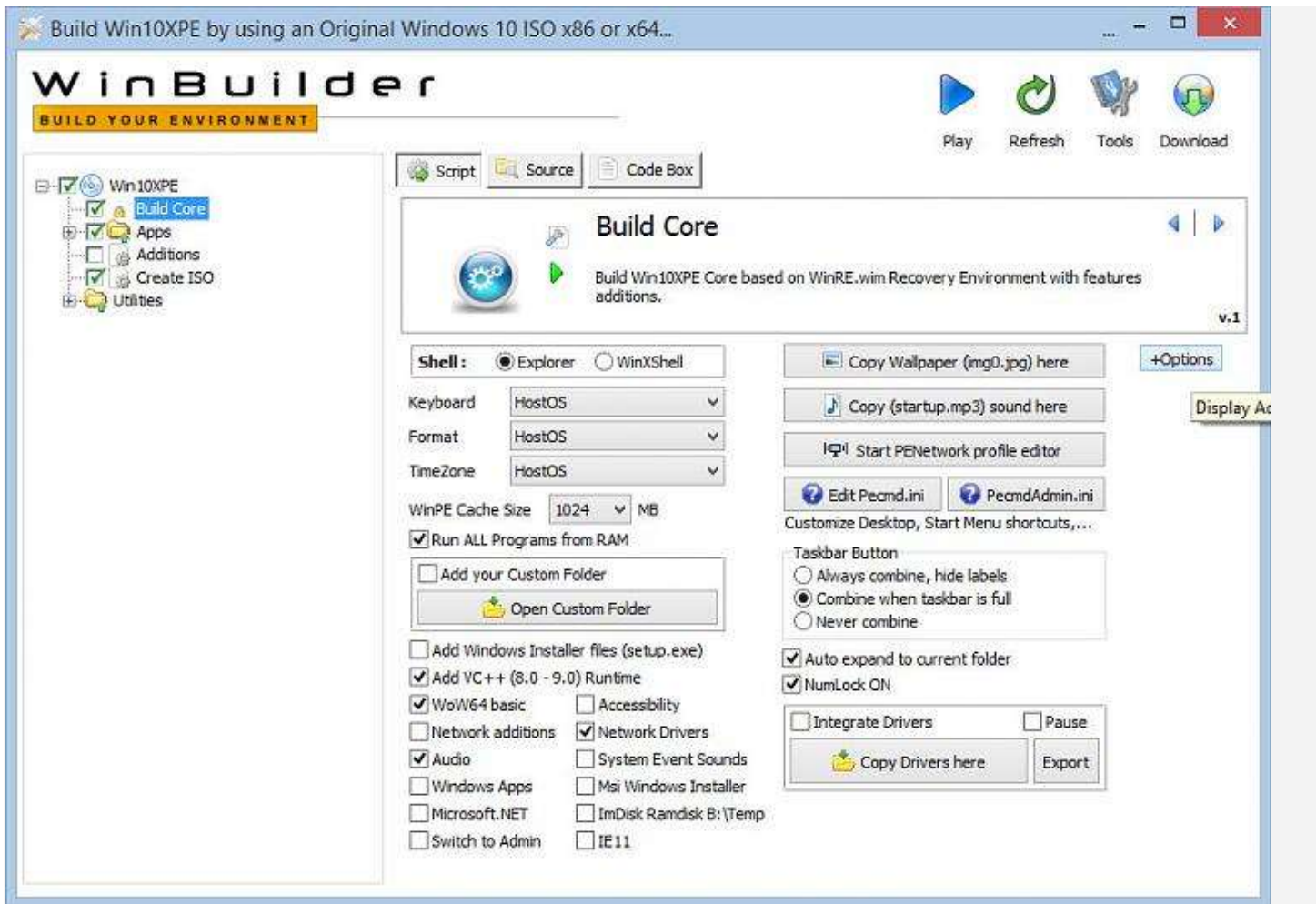
if you click the program name in the left pane - the program interface will display in the right pane.

Each program interface has the ability to select shortcuts and may have other options you can choose from...



Suggested Build Core Default Options

You Can Select From Additional Features and Options



Note: Some Programs May Require Net Framework (Microsoft .Net) or Additional Networking Files (Network Additions)

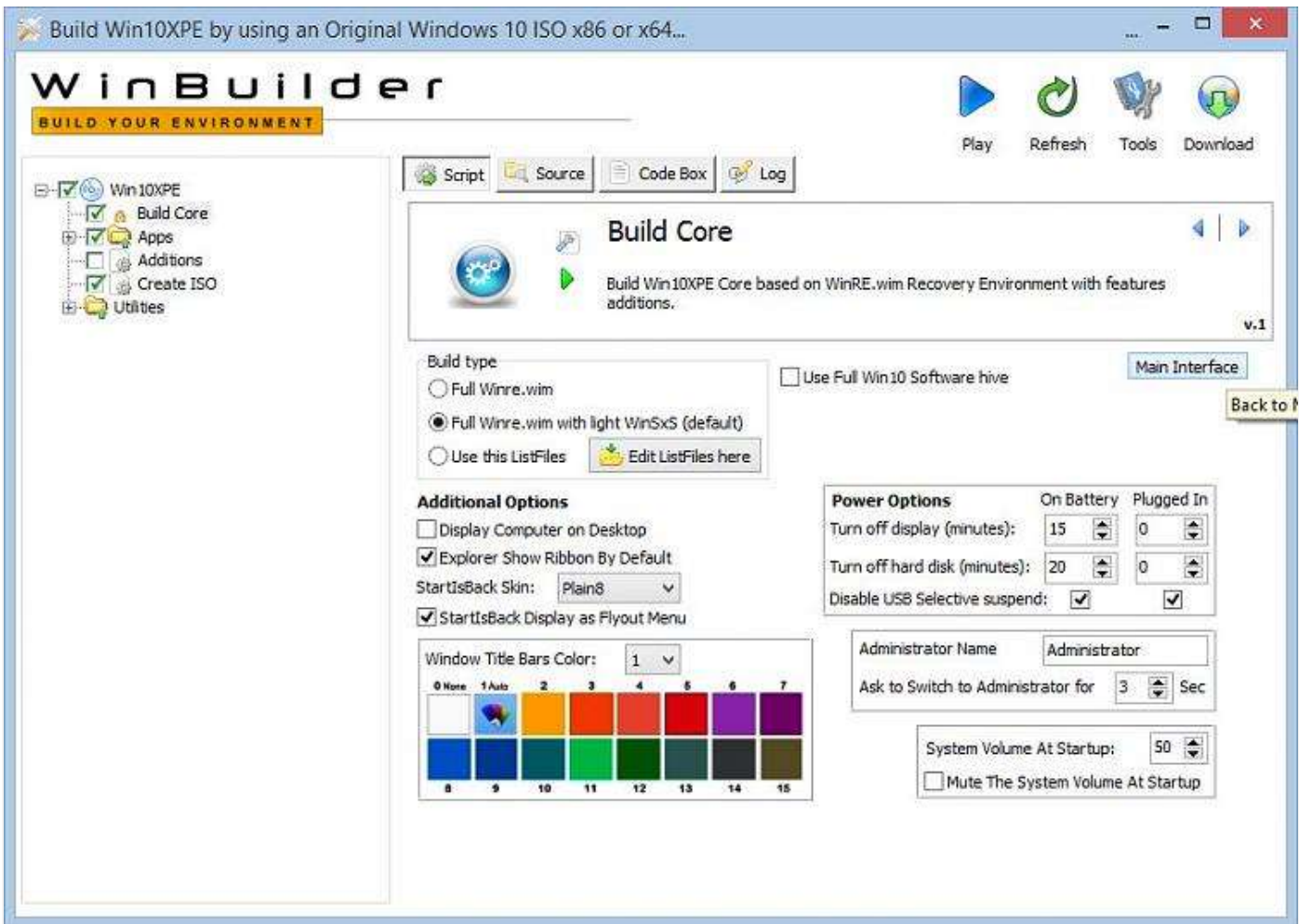
Note: Custom jpg Wallpaper Must Be Renamed To > Img0.jpg

Note: Custom mp3 Startup Sound Must be Renamed to > Startup.mp3

Additional Options Interface

Note: Leave "Build Type" Alone

Select Your Options and Return To Main Interface



Add Custom Drivers

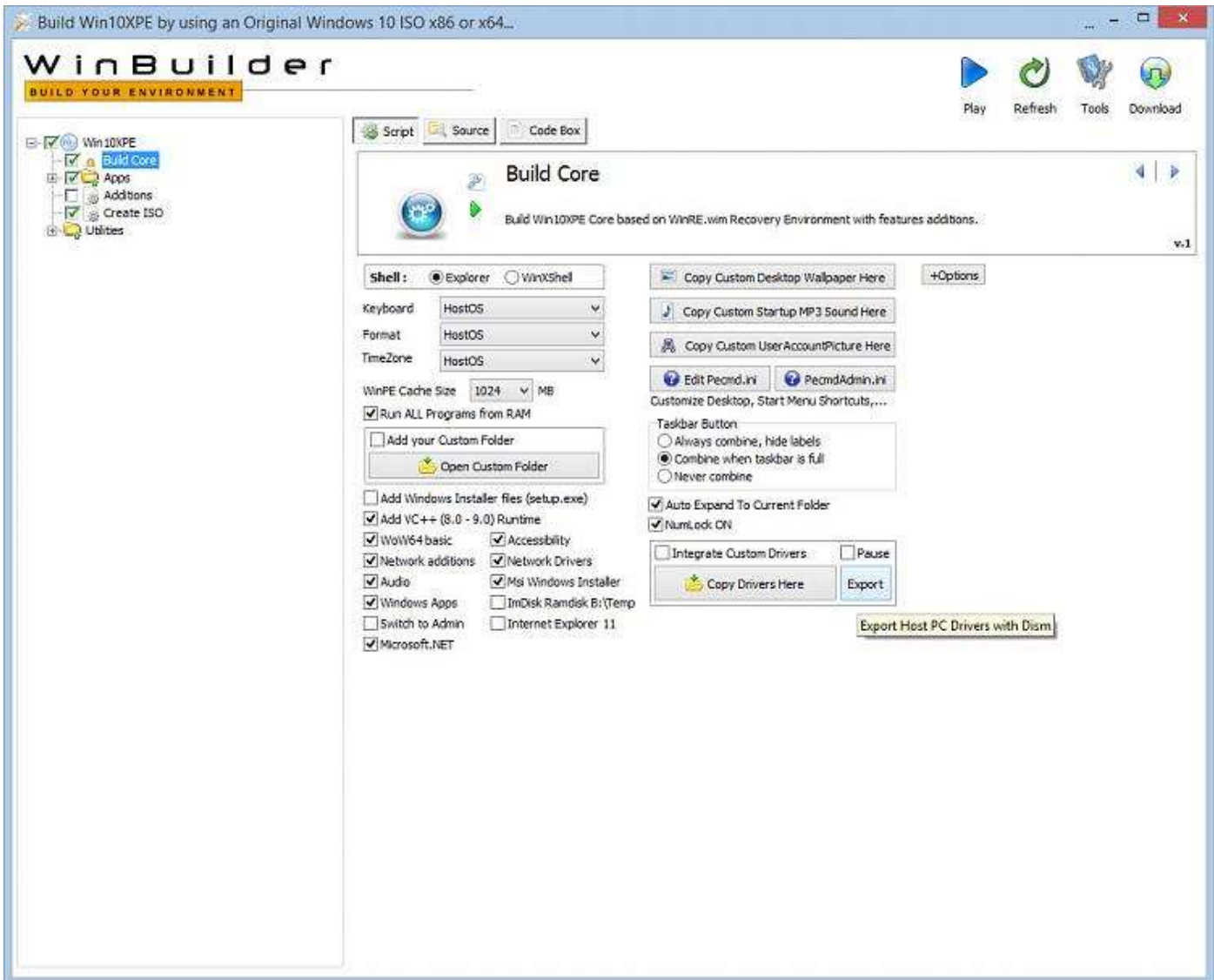
Here is the thing about adding custom "Drivers"

If you can run through windows 10 setup without it asking you for driver files - then most likely you will not need to add them to your XPE...

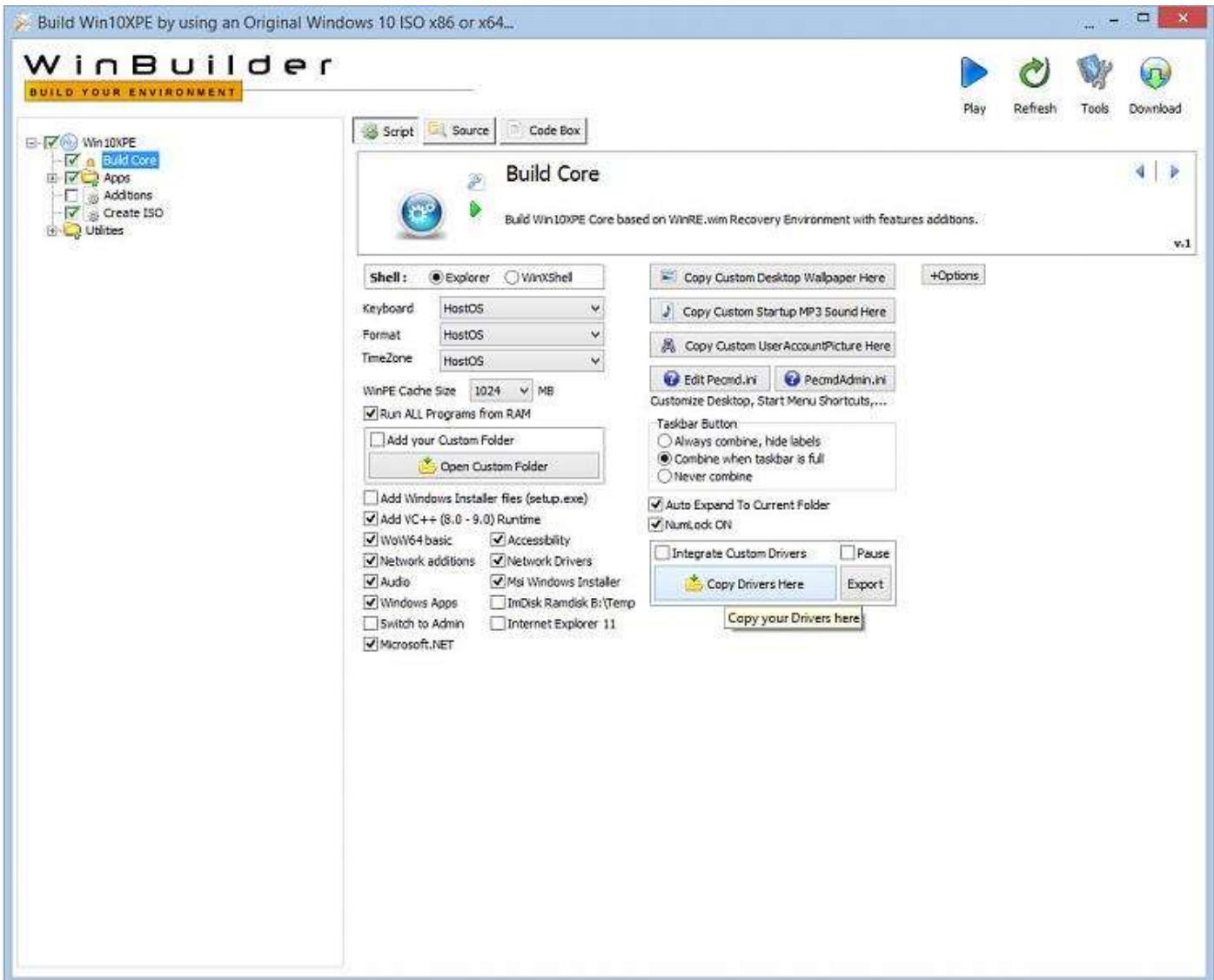
Some Drivers may require a reboot, it is not possible to install those drivers after PE is loaded, so they must be integrated in your XPE build..

I would suggest Booting XPE to test first, before you commit additional drivers...

But Basically You are going to be Exporting those Driver(s) from your Host PC with DISM



You will then Copy the Driver Folders into the Driver Integration Folder in XPE
Another Hint To Additional Drivers - Copy Your Macrium Reflect "Drivers" Folder.



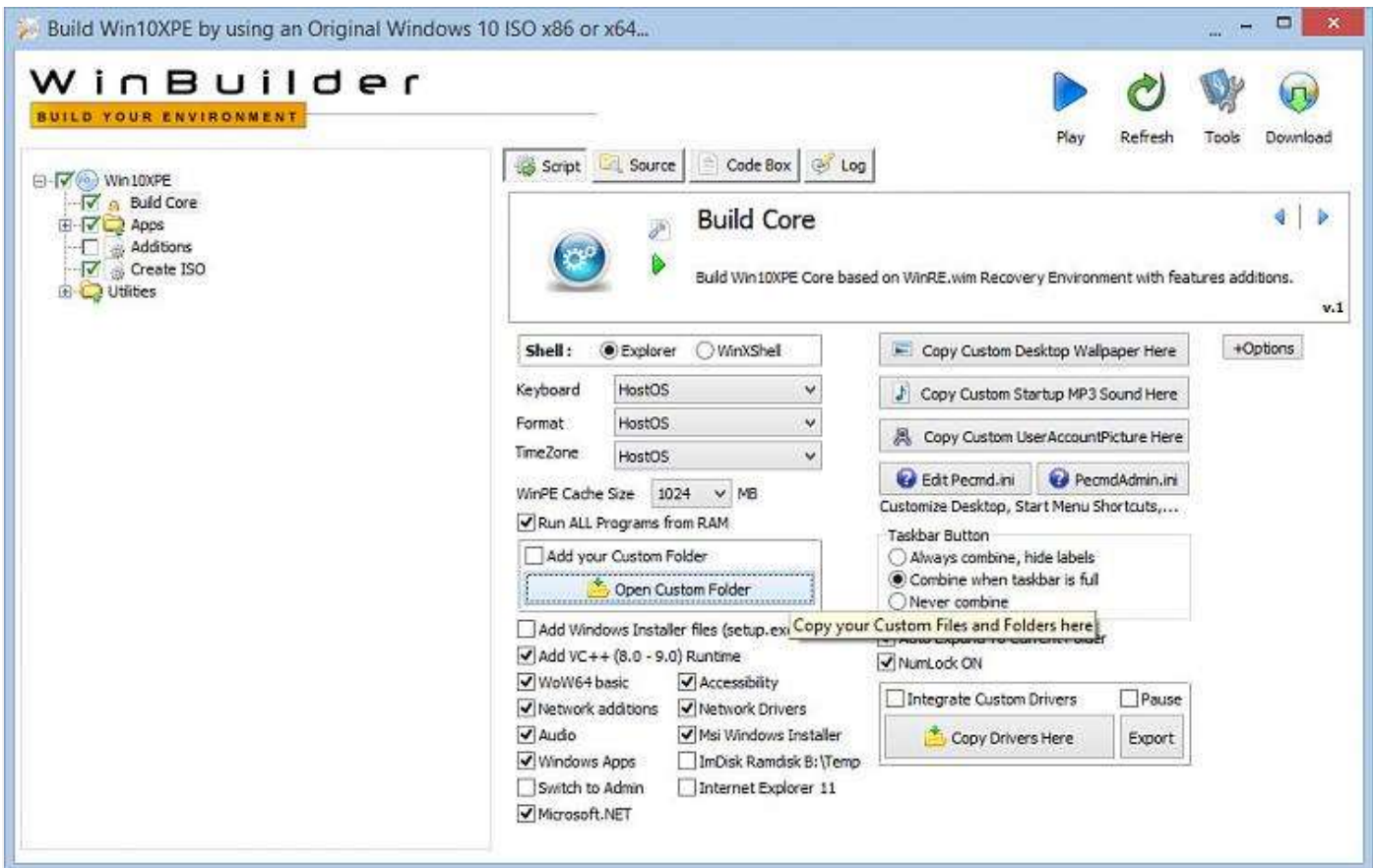
Be sure to check the "Integrate Custom Drivers" Checkbox
 The Drivers are sorted by Arch - and Each Driver Folder is Recursed

Note: You Only Need To Load Required/Special Drivers That Are Not Included In WinPE

Additional Folders

There is a "Custom Folder" So You Can Include Additional Program Files (For Portable Programs or Custom Files/Folders)

To Process Custom Folder - Check The "Add Your Custom Folder" Checkbox

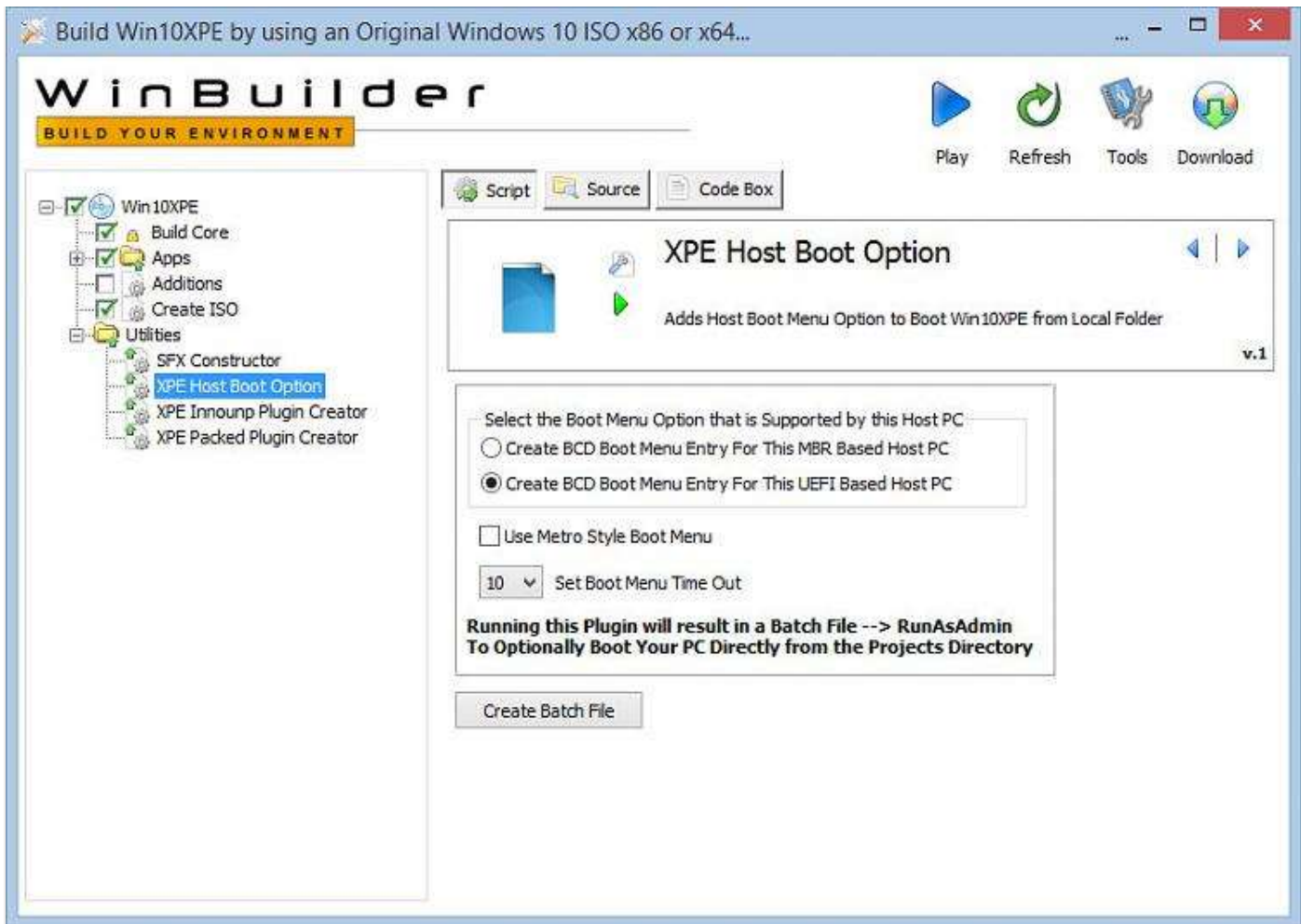


There Is An "ISO Root Folder" where you can place additional files on the root of drive
These are files that will be Accessible Without Booting into WinPE
To Process The Root Folder - Check The "Include Files In ISO Root" Checkbox



Add Host Boot Menu Option

I will provide a little hint for you so you can Boot directly from the Win10XPE folder...
Thus no need to keep burning/coping ISO files to USB..



Hit the "Create Batch File" button - that will create a batch file to add the Boot Menu option for XPE to boot from the Win10XPE directory

Note: If your selected build is to USB the Y drive is not created (As Y Drive is the Root of the drive)
 Selecting the "Run All Programs From Ram" option will work no problem..

To Remove The Host Boot Menu Entry

Open Command Prompt (Admin) or Use "Run" box

Type> msconfig

Select the "Boot" Tab and remove the "XPE Recovery" Option

Run All Programs From Ram ??

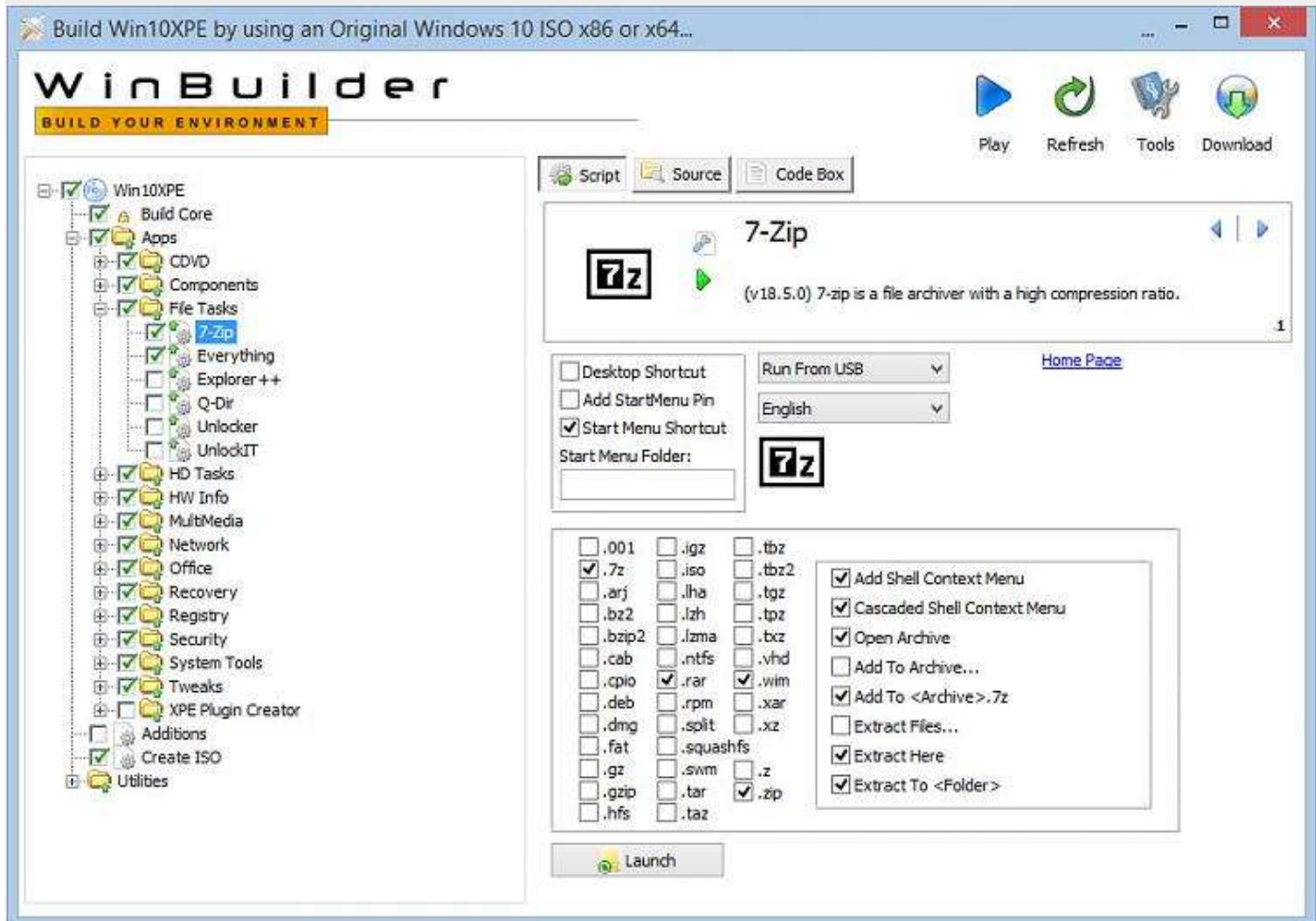
In the "Above Post" screenshots you will see a "Run all programs from ram" checkbox (Just below the HostOS

boxes) ...

Selecting it will override the use of the Scrollbox on every program interface - by placing all the programs into Ram..

Leaving the "Run all programs from ram" checkbox - unchecked on Build Core Plugin

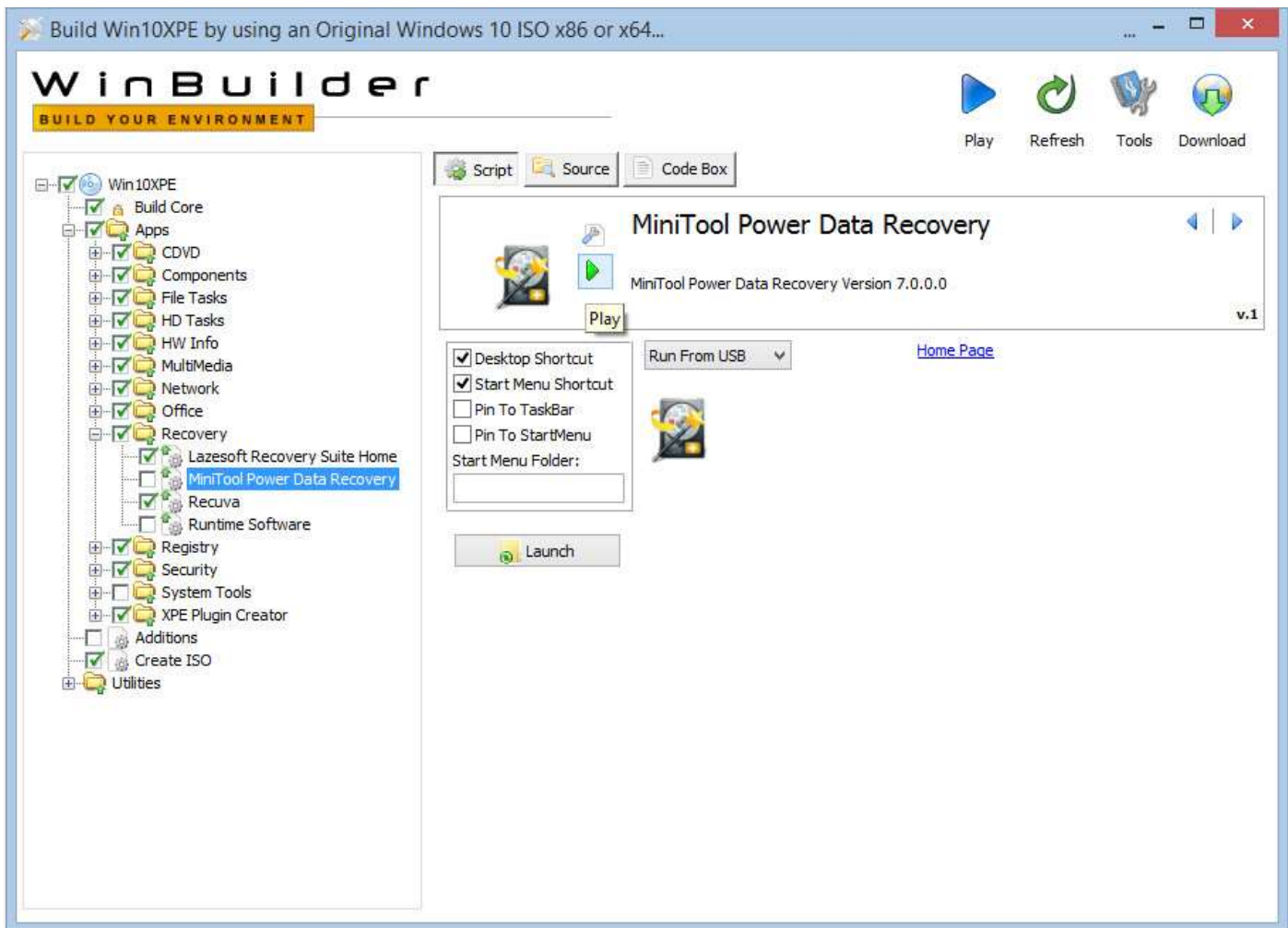
Will allow you to select the programs target location via the program interface.. USB or RAM



Add Additional Plugins or Make Edits To Current Build

There are times when you may want to **Add** Additional Plugins or Make Edits To Your Current Build This can be done without the Need To Process the Complete Build Again.

Select The Plugin You Want to Add and Then Hit The **Little Green Play Button** on Plugin Interface



After The Additional Plugin(s) are Added To The Build
Select The "Create ISO" Plugin from the Left Pane.
On the Interface Hit The "Create Boot.wim and ISO" Button



Build Log - Error Messages - Build Stops Abruptly - Programs Not Found In ISO

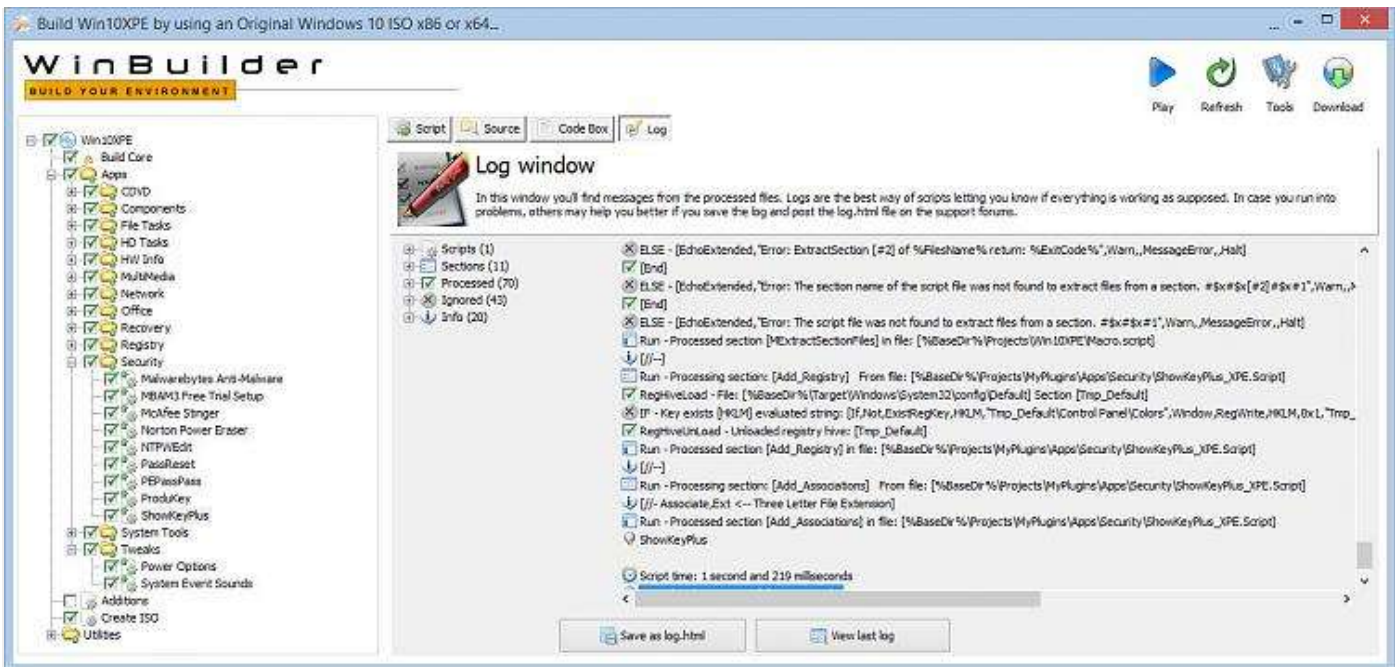
Sometimes Things Go Wrong and Error Messages Appear - Sometimes Things Go Wrong And No Message Appears..

Instead Of Jumping To Make A Complaint Post In This Forum - Use The "LOG" Tab and Investigate The Cause First...

The Build Log is My Best Friend When Creating and Testing Plugins..

Select The "Log" Tab after the Plugin Is Processed - Look For Yellow (Warnings) or Red (Errors) Icons In Pane

Everything Looks Good Here:



Everything Not So Good Here - I See a Yellow Warning Message - Red would be an Error Message



You Can Hover Your Mouse Over The Message to Read it

Ok, Now that you know something went wrong - Single Click The Message To Locate It In The Log
Scroll a little past the Message and You Will See The "Script" That Was Processed...

Now, You Have a General Idea of where To Start Looking and You May Be Able To Fix It...

IF

After All Else Fails and You Just Can't Not Figure Out The Cause
Post a Report with the Error Message and The Plugin That Caused it

Note: You Can Double-Click The Message To Copy It to Clipboard

(Include in your report post)

The Project Name - (XPE)

Your Source Arch - (x86 or x64)

The Build Selection - (USB or Ram)

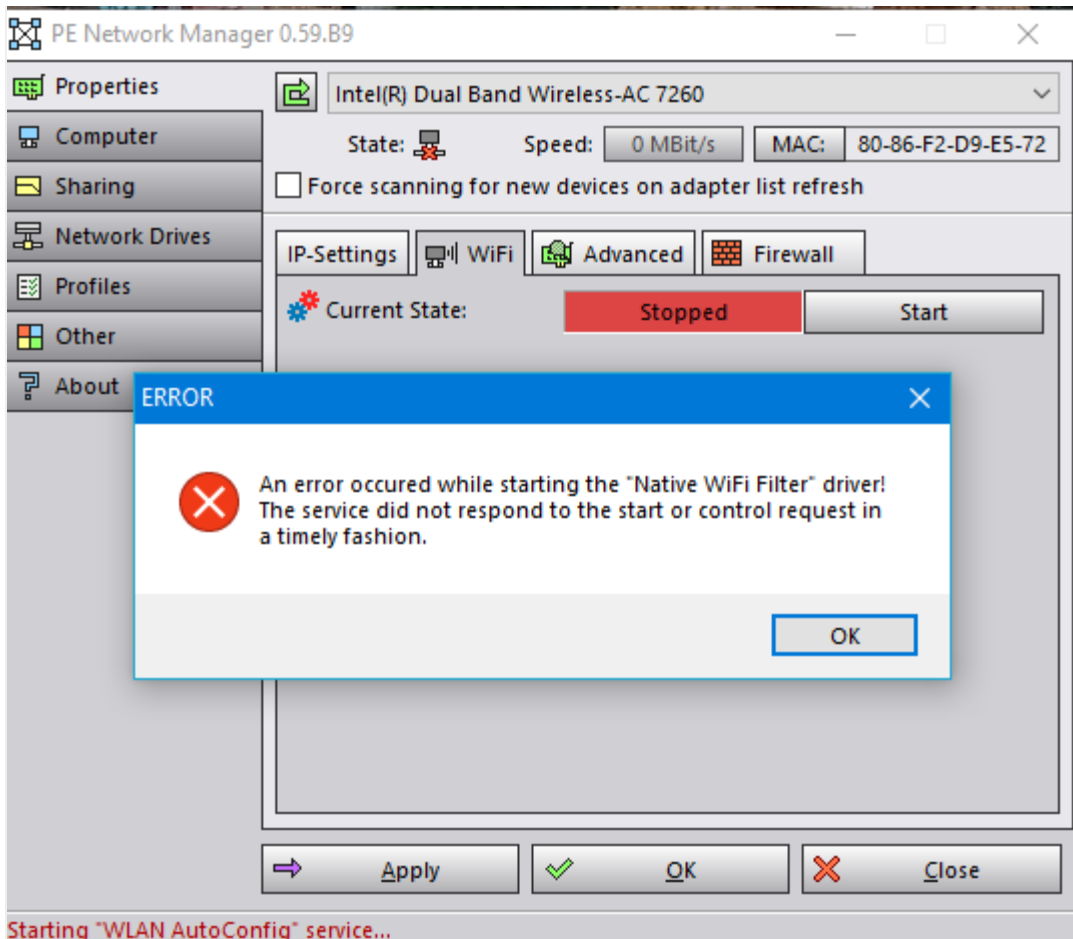
The Source OS - (Win10-1803)

You can also save the complete build log - By Hitting The "**Save As Log.Html**" Button
Then Compress (7z or Zip) and **Attach** That log File To the **Bottom** of Your Report Post

Program Error Message(s) In WinPE

We Create and Test Plugins With Limited Resources and Do Our Best To Prevent Them..
With That Said, Not Every PC Is The Same and Program Error Messages Do Happen...

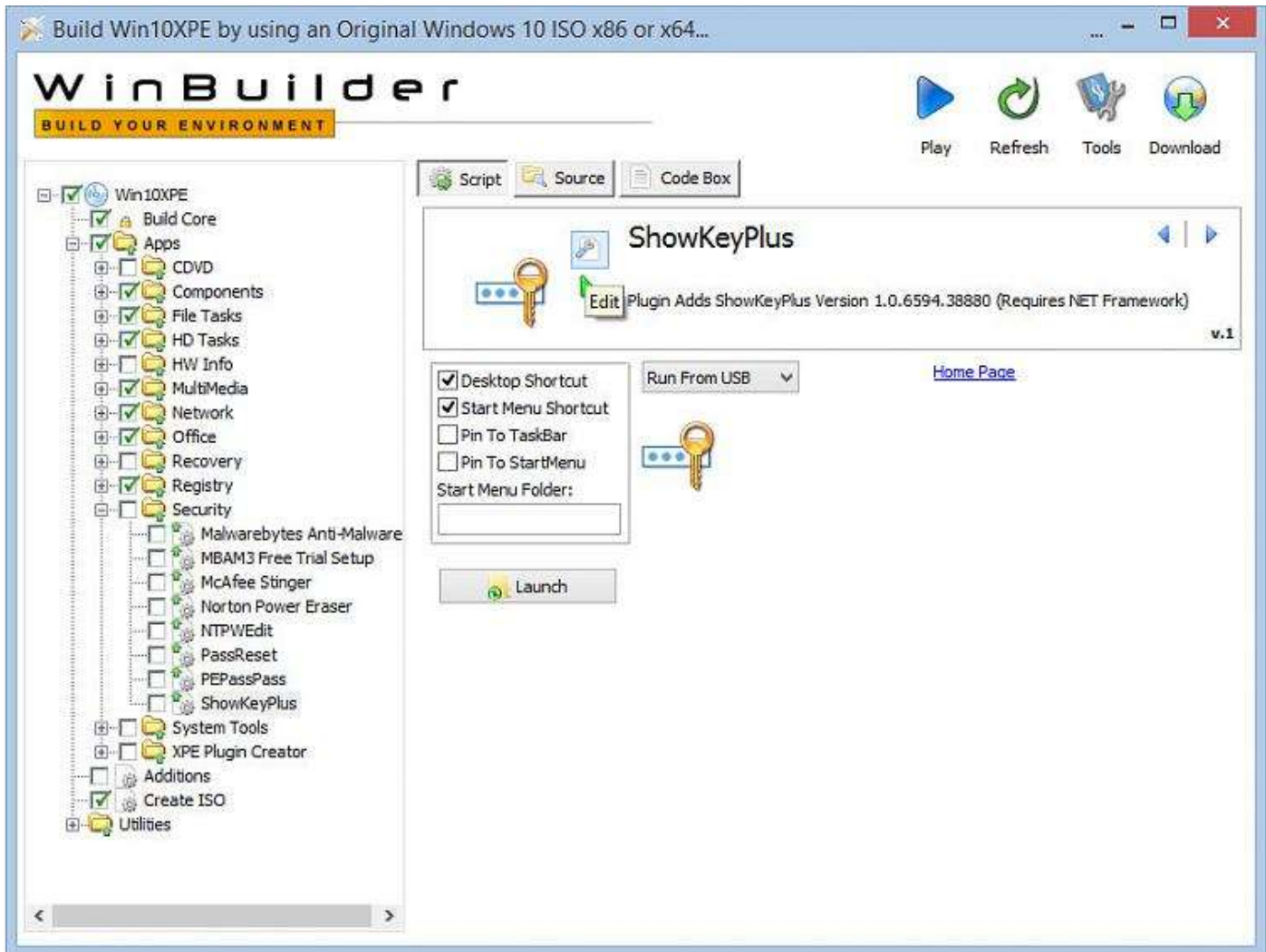
Take a Screenshot of The Error Message and Attach it to the **Bottom** of your report post..



Update Existing Plugins

Let's take for example the ShowkeyPlus Plugin

We are going to use the "Edit" Button and the "Source" tab and look for the File Container Script



The Plugin Uses a File Container (Most Plugins Do)

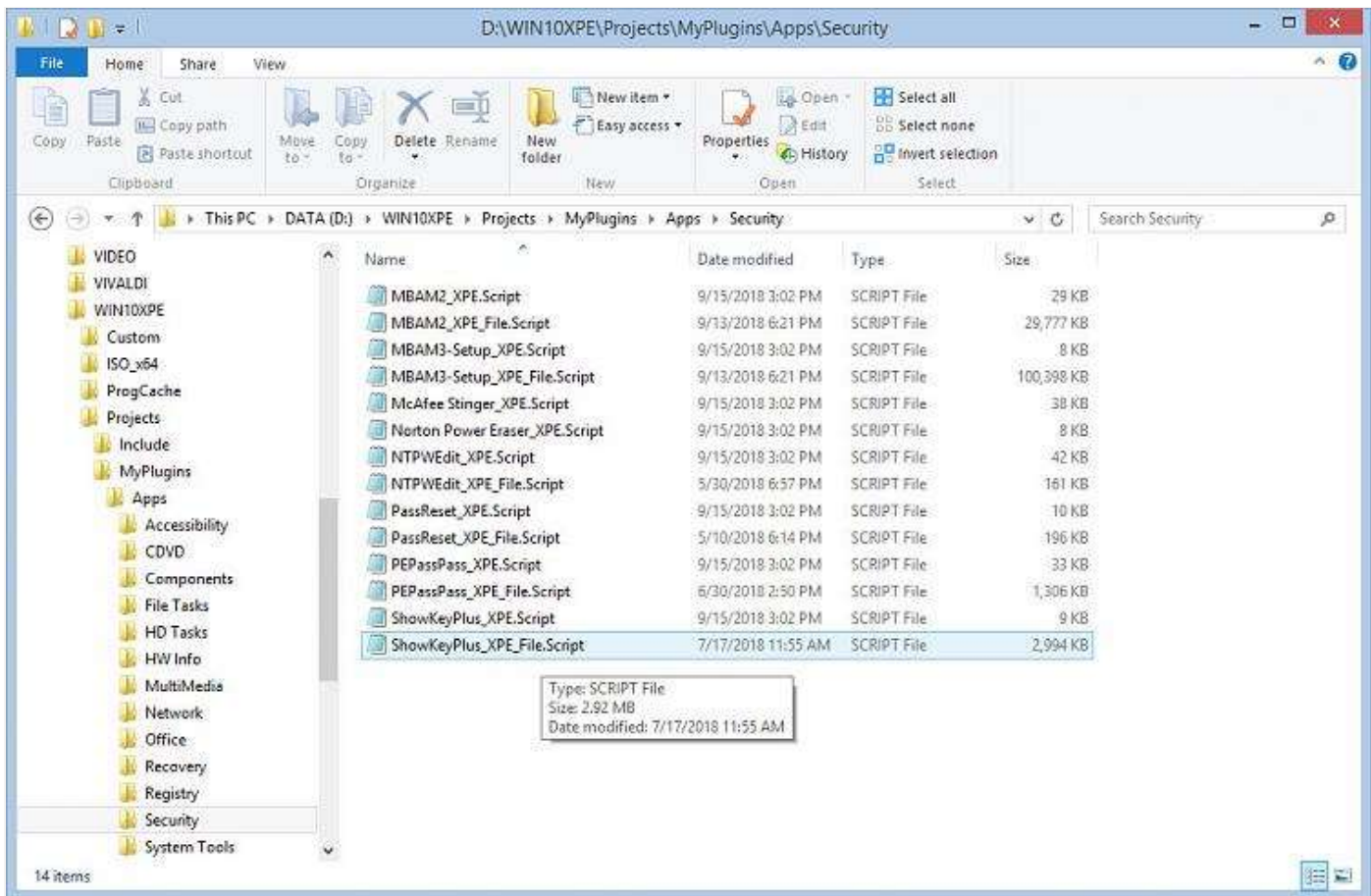
Also notice (above highlight) that the > SetupFile=ShowKeyPlus.7z

```
20 Desktop_CheckBox="Desktop Shortcut",1,3,10,10,122,18,True,"__Add Desktop Shortcut"
21 StartMenu_CheckBox="Start Menu Shortcut",1,3,10,28,122,18,True,"__Add Start Menu Shortcut"
22 StartMpin_CheckBox="Pin To StartMenu",1,3,10,64,122,18,False,"__Add Pin To StartMenu Shortcut"
23 TaskBpin_CheckBox="Pin To TaskBar",1,3,10,46,122,18,False,"__Add Pin To Taskbar Shortcut"
24 StartMenuFolder_TextBox="Start Menu Folder:",1,0,10,100,121,18,,,"__Start Menu Folder Name"
25 RunFromWhere_ScrollBox="Run From USB",1,4,145,6,104,21,"Run From USB","Run From RAM"
26 Image_Software=,1,5,145,45,300,225
27 Button_Launch_Program=Launch,1,8,10,142,119,25,Launch_Program,Launch.bmp,False,_Launch_Progra
28 HomePage_WebLabel="Home Page",1,10,338,6,55,18,http://www.tenforums.com/software-apps/2577-sh
29
30 [Variables]
31 %ProgramTitle%=ShowKeyPlus
32 %ProgramExe%=ShowKeyPlus.exe
33 %ProgramExex64%=ShowKeyPlus_x64.exe
34 %ProgramFolder%=ShowKeyPlus
35 %SetupFile%=ShowKeyPlus.7z
36 %FileContainer%=%ScriptDir%\ShowKeyPlus XPE File.Script
37
38 [Process]
39 Echo,"Processing %ScriptTitle%..."
40 If,Not,ExistFile,%FileContainer%,Exit,"%FileContainer% Container File Not Found"
41 If,%RunFromWhere_ScrollBox%,Equal,"Run From RAM",RunFromRAM
42 If,%Architecture%,Equal,x64,Run,%ScriptFile%,PluginSetx64
43 //--
44 Run,%ScriptFile%,Extract
45 //--
```

The File Container is Always Hidden From Builder - So We Must First Unhide It..

Browse to the "\Win10XPE\Projects\MyPlugins\Apps\Security"

Notice that the "Apps" Folder Follows The Left Pane Structure in Builder



Double-Click The ShowKeyPlus File Container Script and Open with Notepad

To UNHIDE The Container File Plugin Edit in Notepad > Level=0 to Level=5 - Save and Exit

To HIDE The Container File Plugin Edit in Notepad > Level=5 to Level=0 - Save and Exit

```
ShowKeyPlus_XPE_File.Script - Notepad
File Edit Format View Help
[Main]
Title=ShowKeyPlus - File Container
Type=XPEPlugin
Description=ShowKeyPlus v1.0.6594.38880 File Container
Author=KYHI
Date=2018.07.17
Credits=
Contact=
Version=001
Level=5
Download_Level=2
Selected=None
Mandatory=False
NoWarning=False
History001=KYHI Initial XPE Plugin Created 2018.07.17
History002=

[Interface]
Hide_TextBox="To Hide Plugin From Tree - Edit Container File Plugin [Main] Level=5 to Level=0",1,1,11,60,531

[Variables]

[Process]
Echo,"File Container Plugin - There is no Spoon"

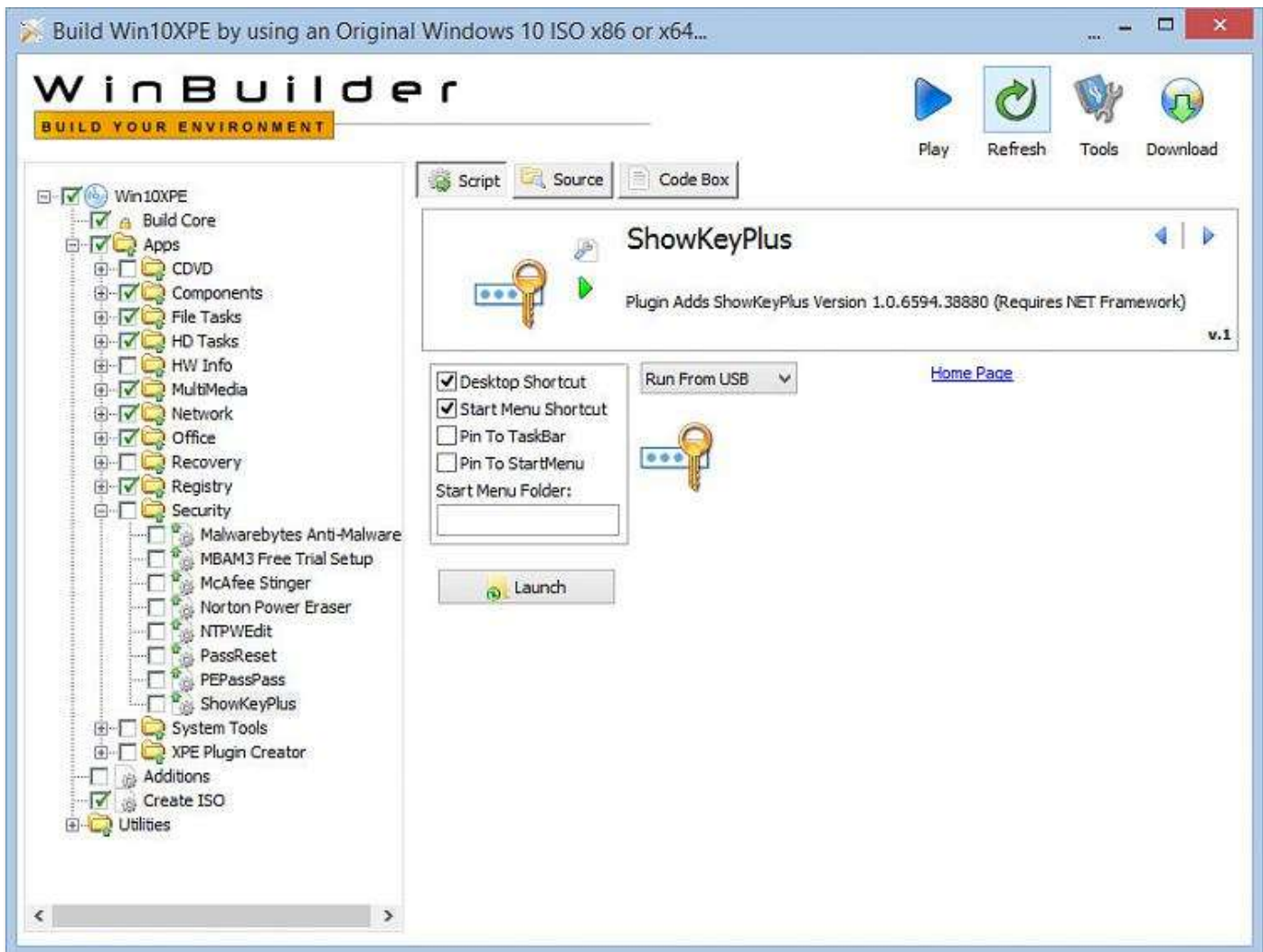
[AuthorEncoded]
ShowKeyPlus4848.ico=2518,3358
Logo=ShowKeyPlus4848.ico

[InterfaceEncoded]

[EncodedFolders]
Folder

[Folder]
<
```

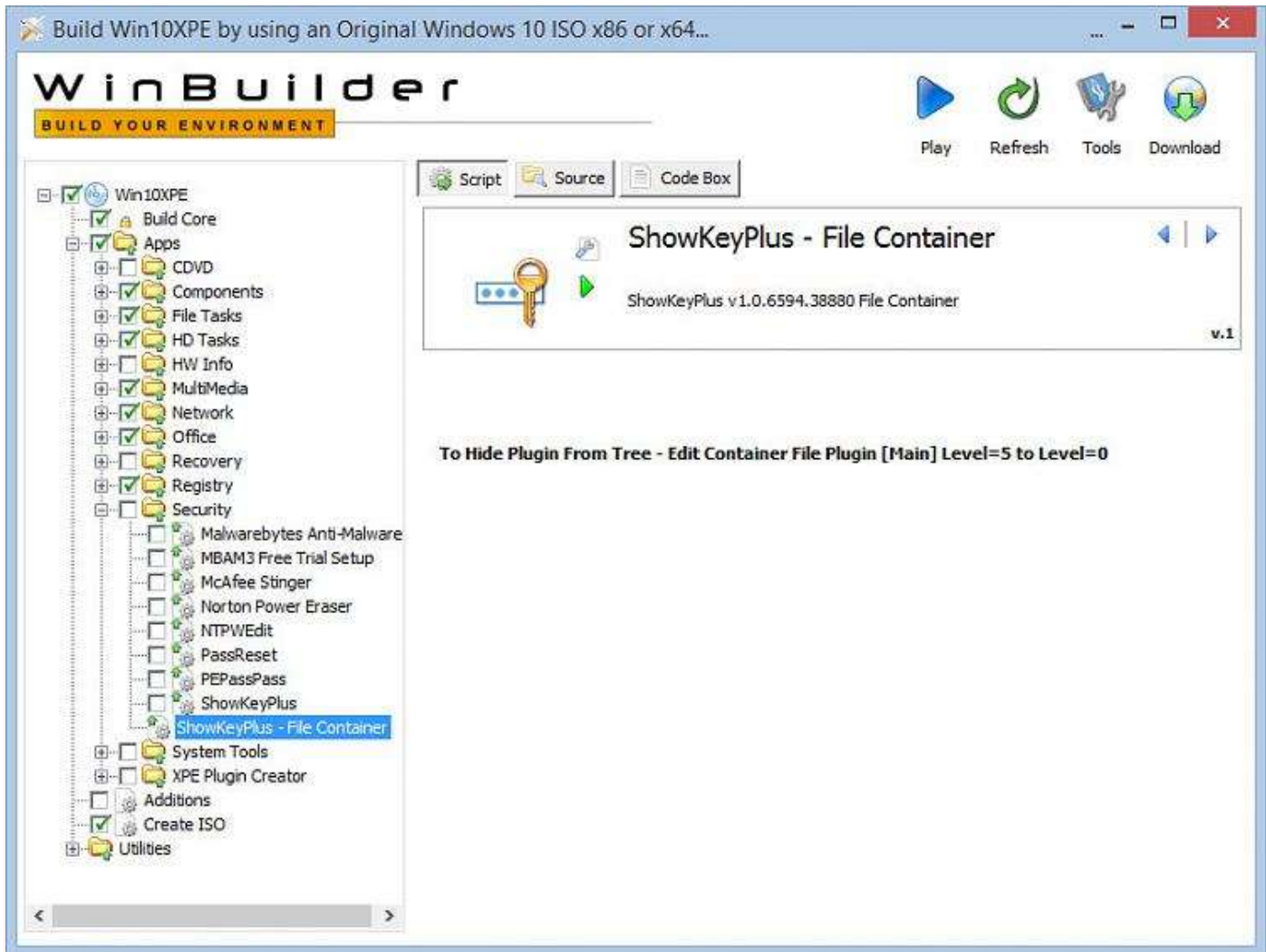
Go Back Into Builder and Hit "Refresh" Button



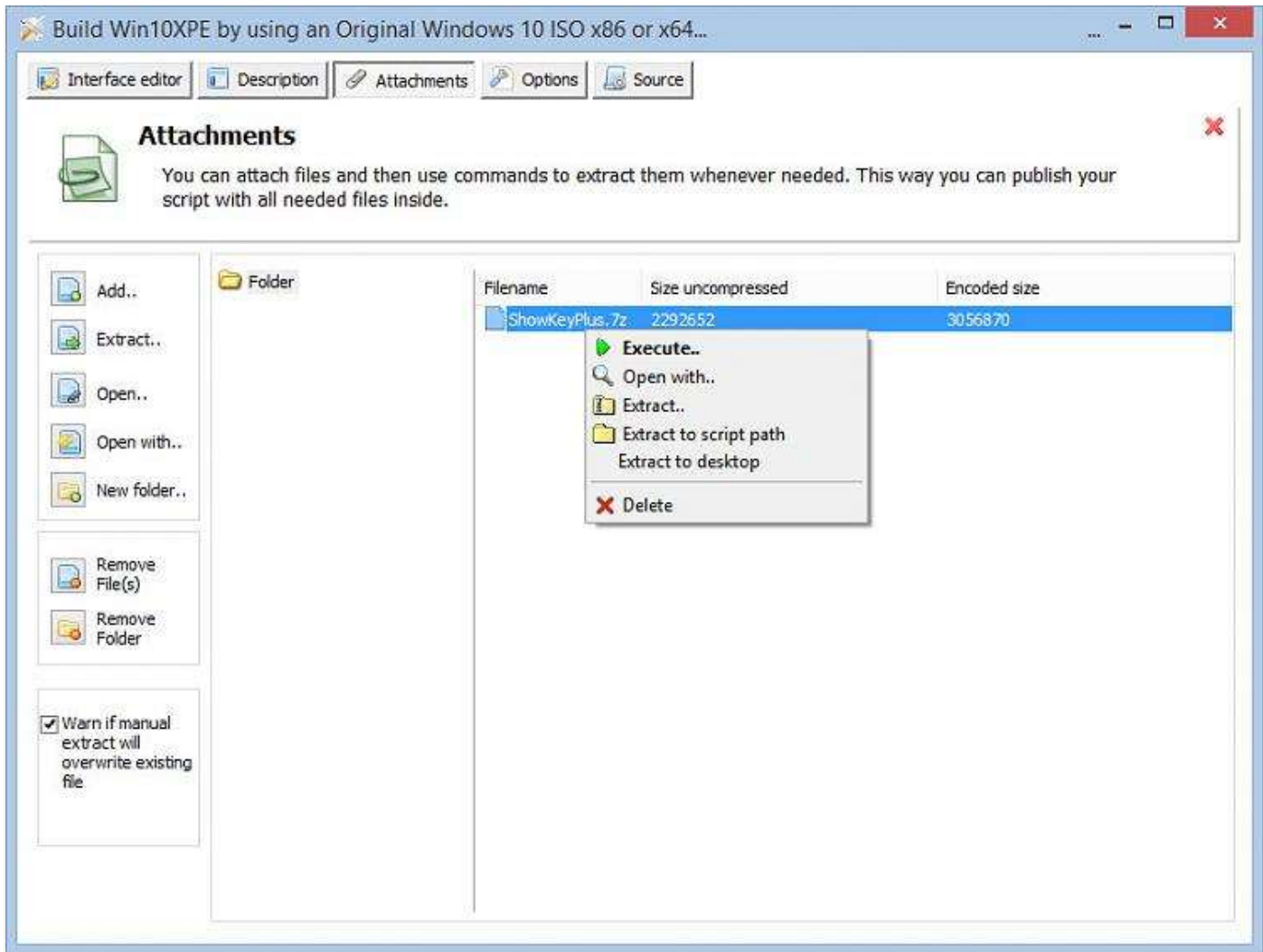
Extract Attachment from Plugin

The Container File Is Now Visible

Select "Edit" Button and Select "Attachments" Tab



Right Click The Setup File and Extract To Desktop



Update/Replace The Program Files Inside the 7z Setup File on your Desktop

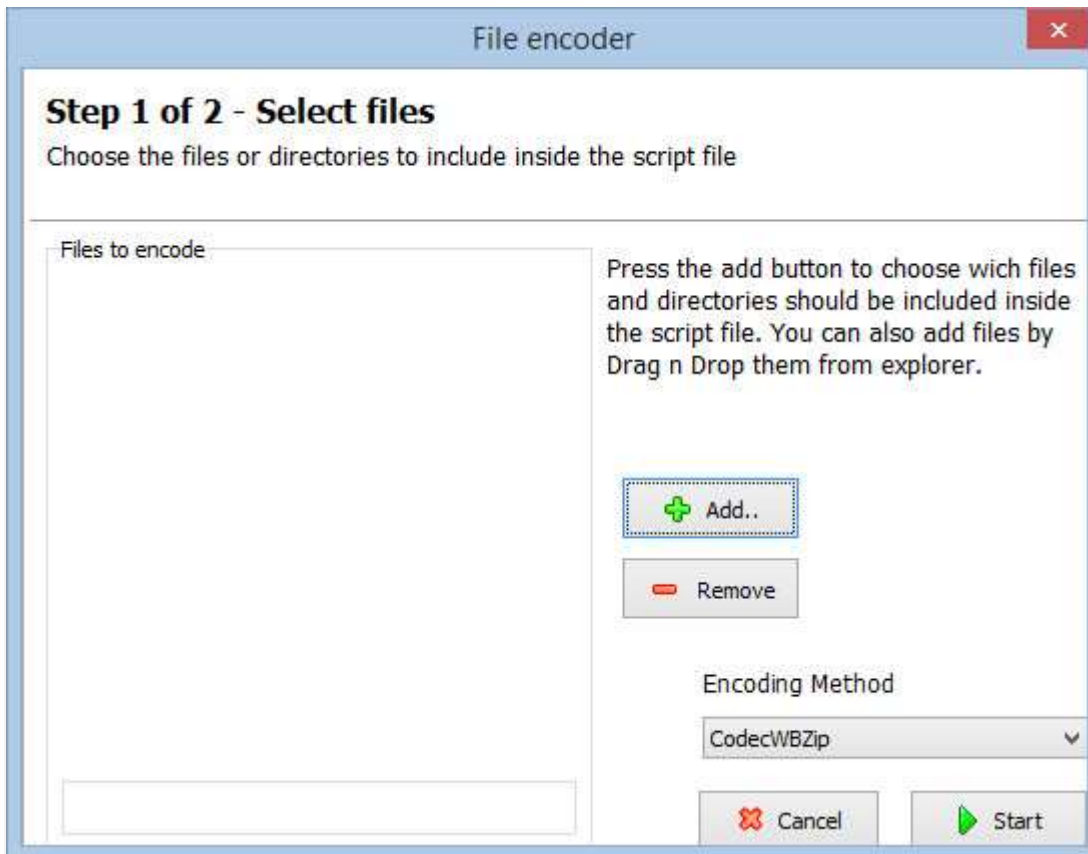
You usually only need to update the existing files - because we usually do not include unneeded files

Encode Attachment To Plugin

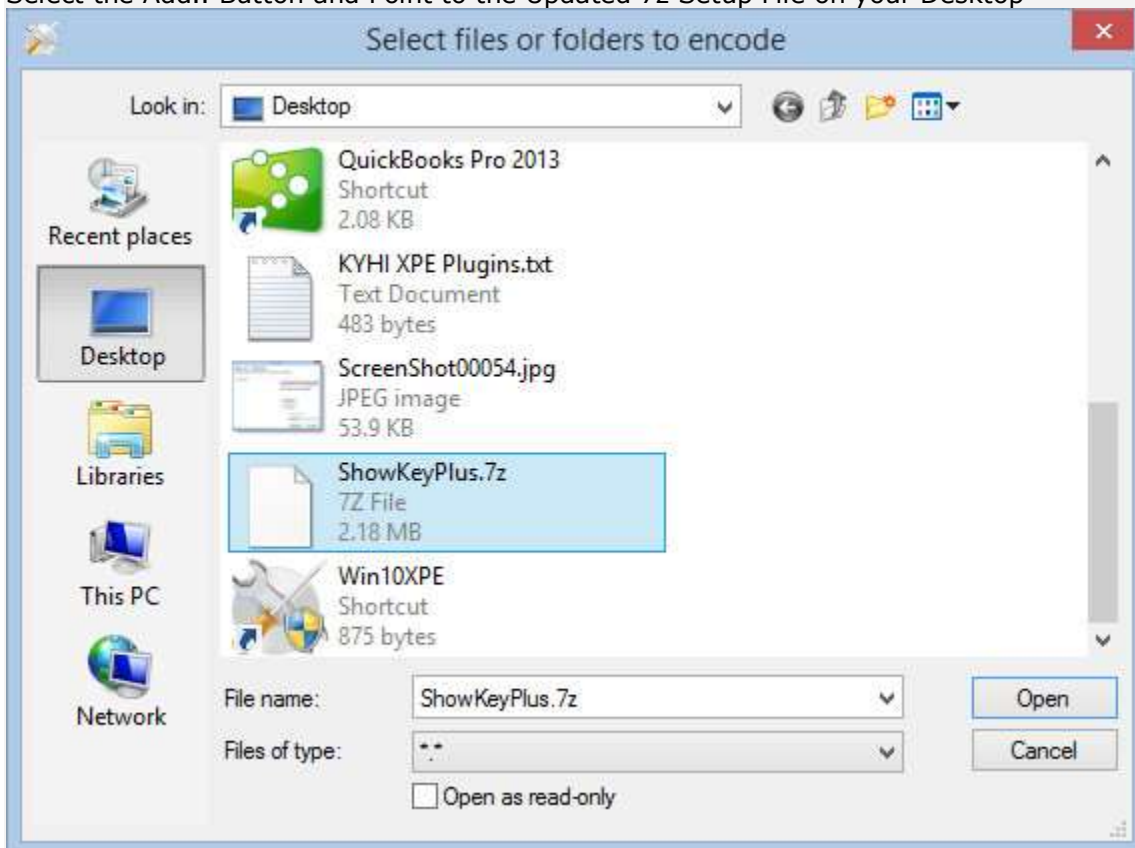
Select the Add.. Button

As seen above in the Upper left Corner of Attachment Interface

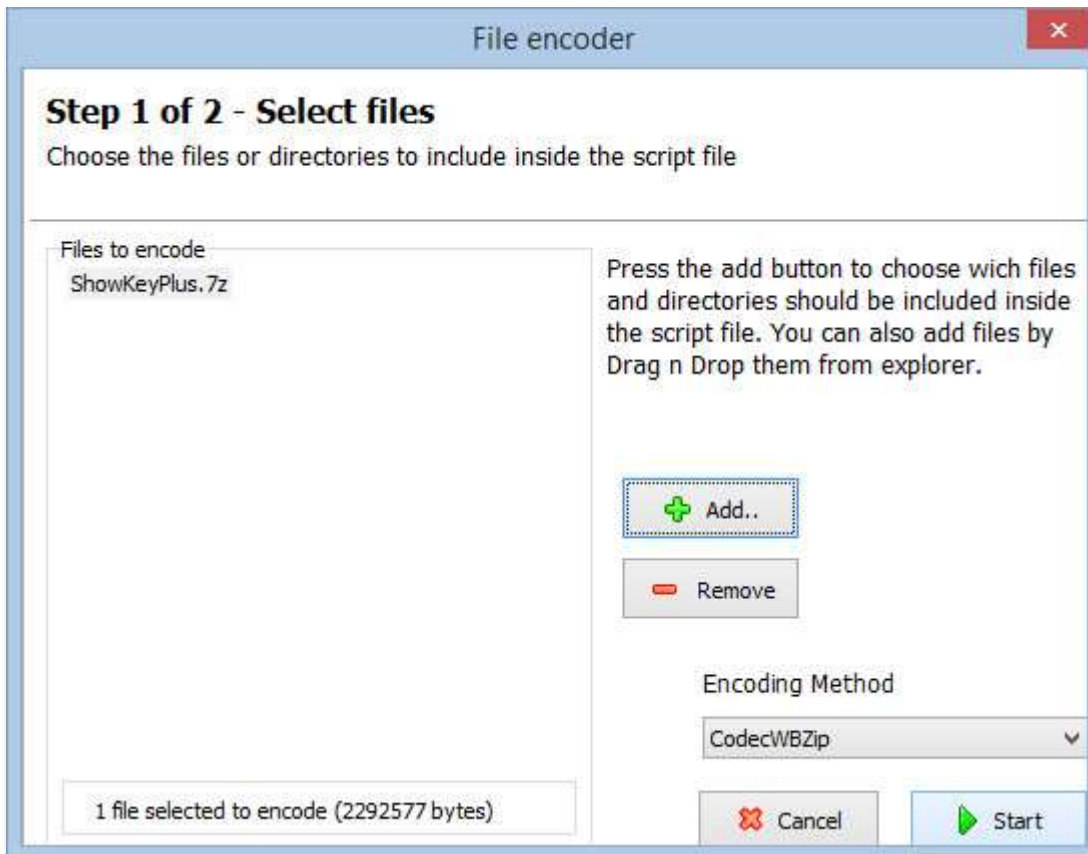
A "File Encoder" Dialog Box will Open



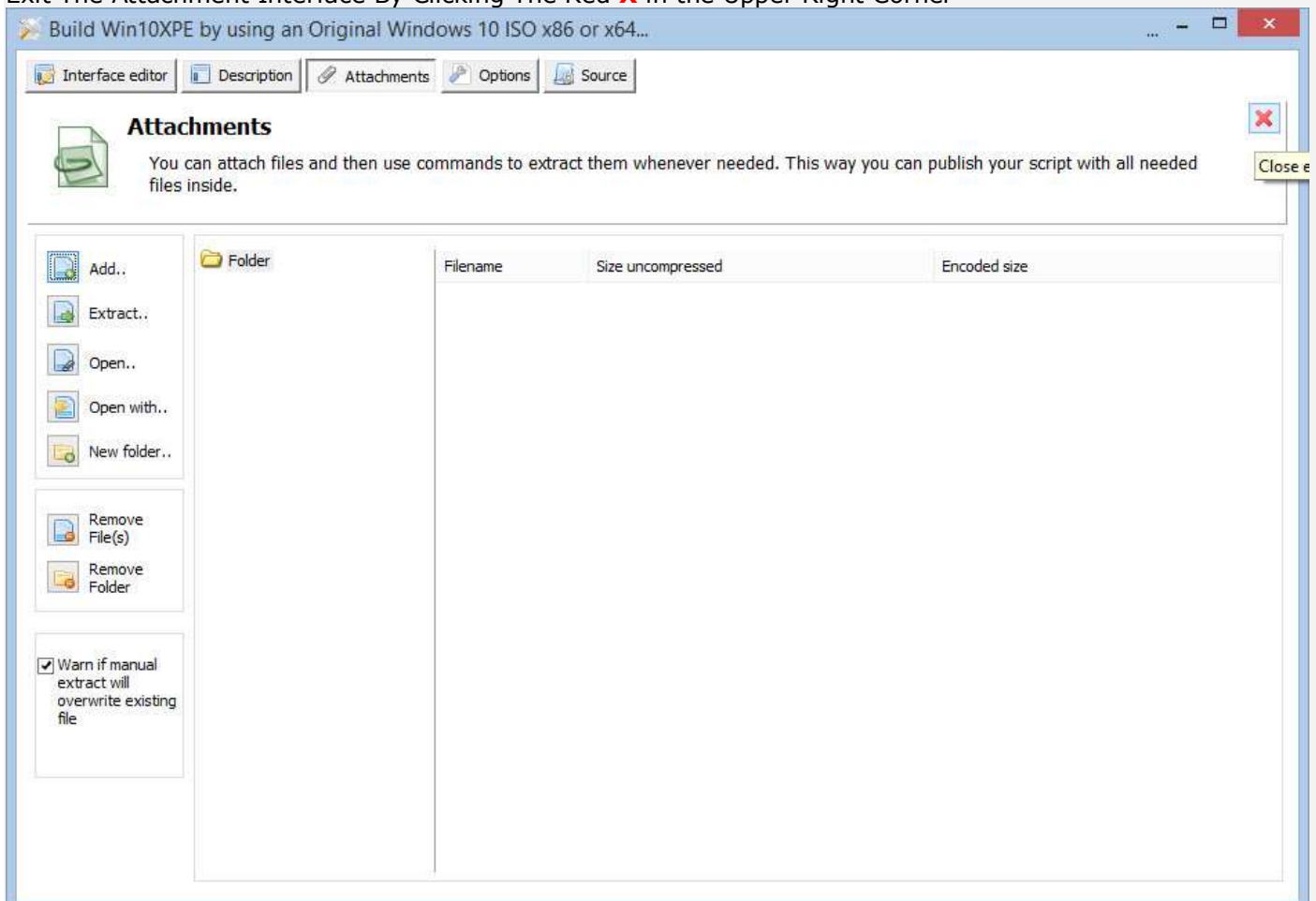
Select the Add.. Button and Point to the Updated 7z Setup File on your Desktop



Notice that the Setup File .7z is shown in the left pane and Then Click "Start" Button



Exit The Attachment Interface By Clicking The Red **X** in the Upper Right Corner

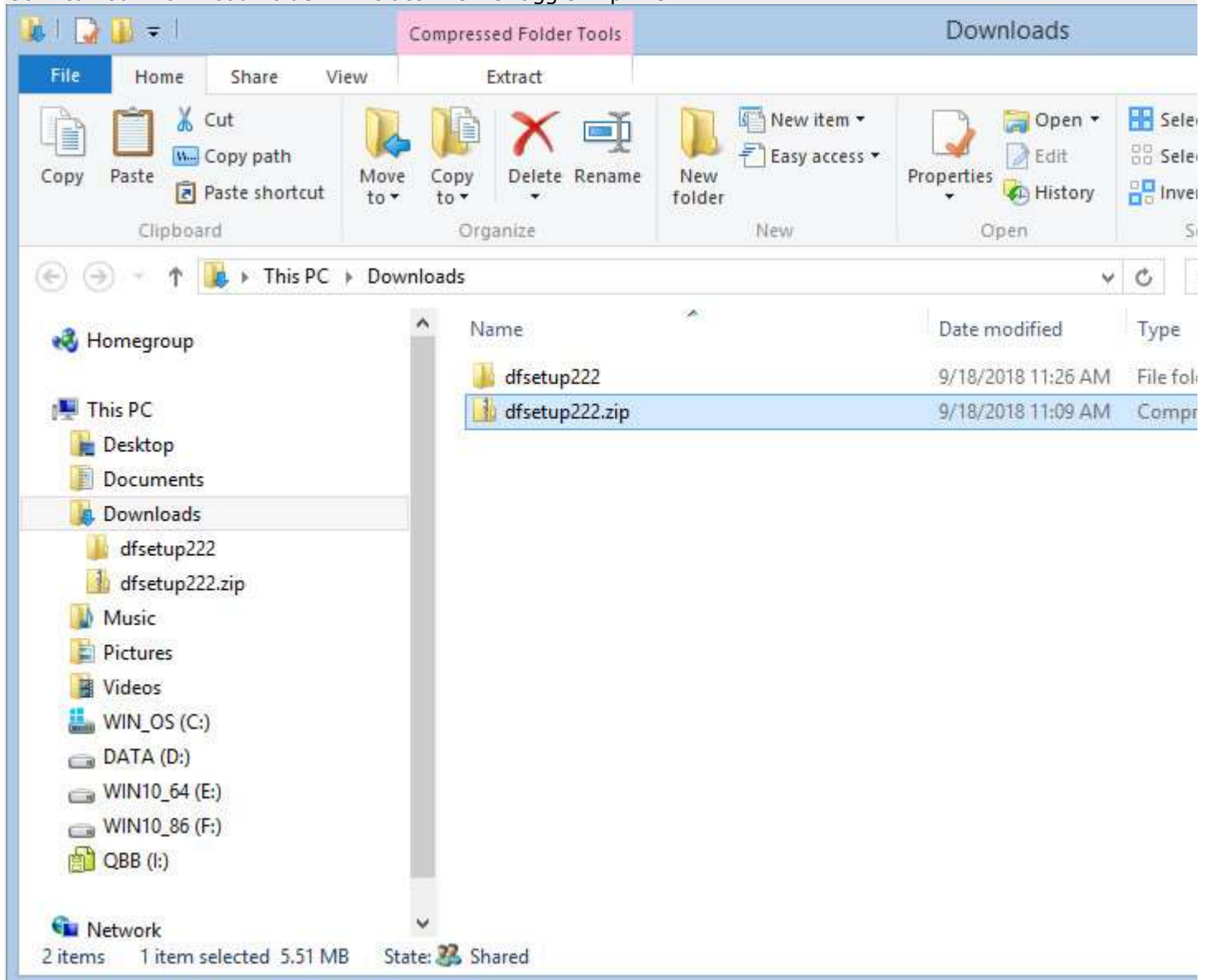


You Have Just > Extracted, Updated and Encoded A File...

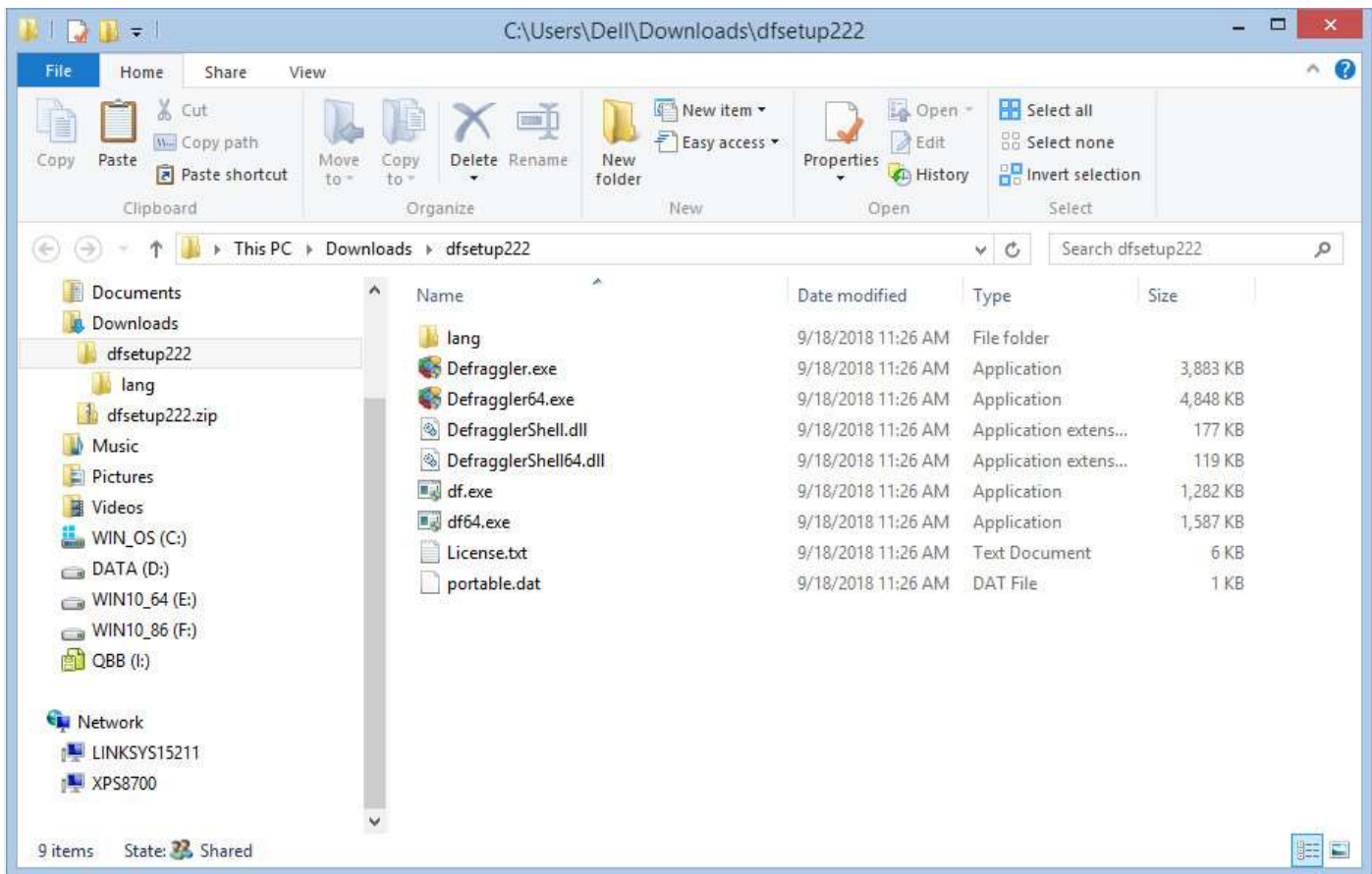
Create Portable App Packed Plugins

For this Example > Download [The Portable Version Of CCleaner-Defraggler](#)

Go Into Your Download Folder - Extract The Defraggler.zip File

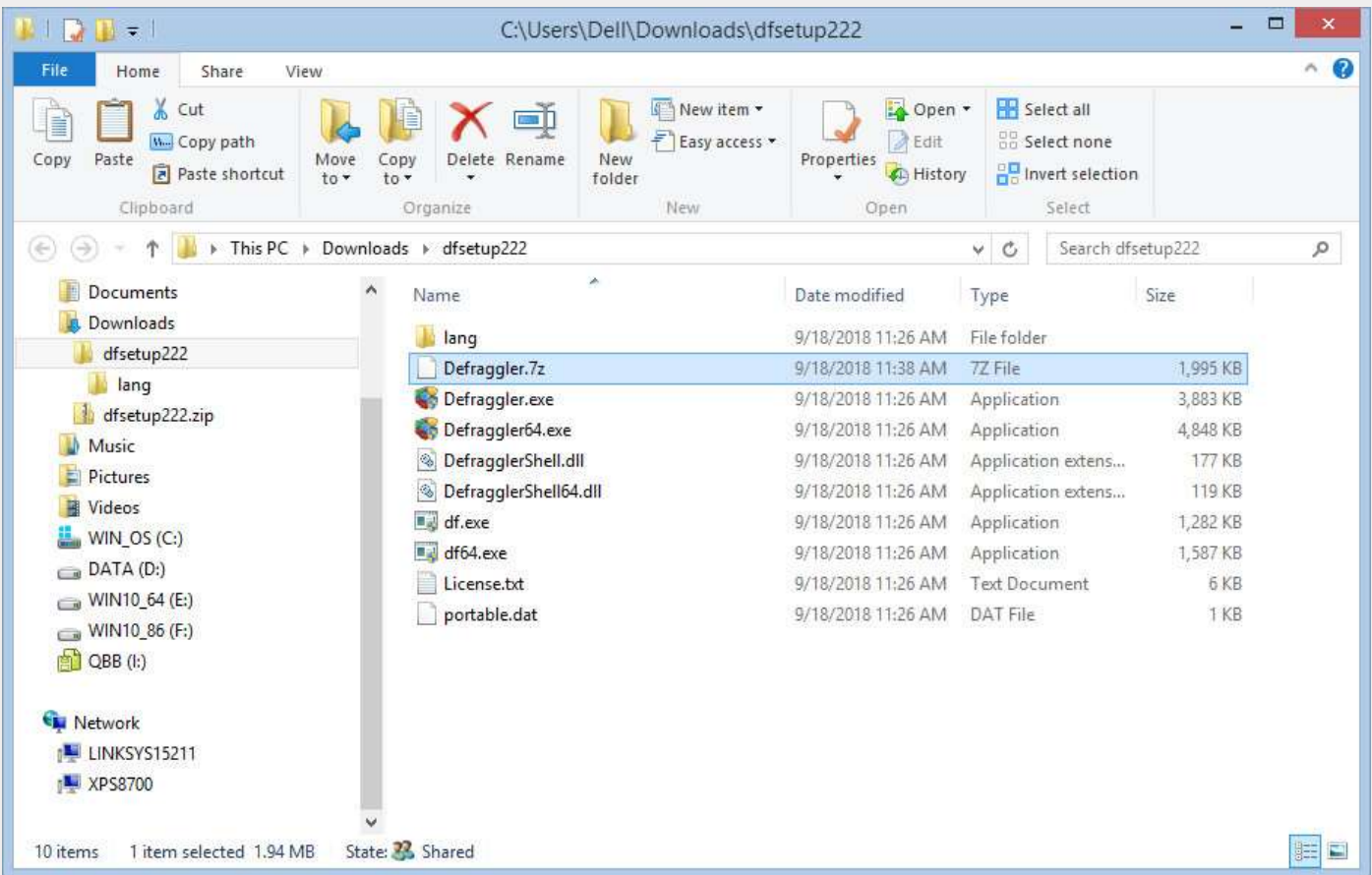
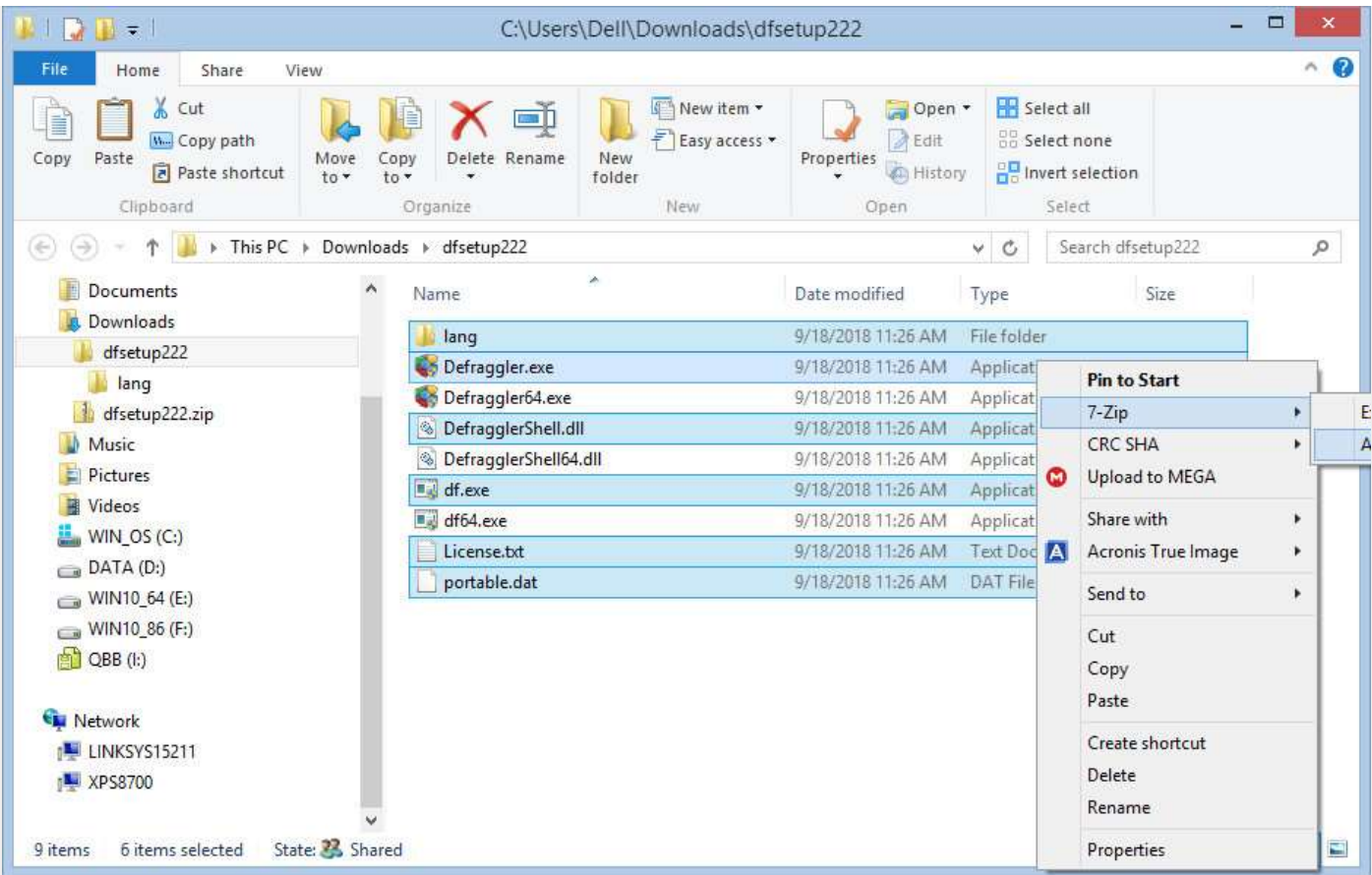


Open The Extracted Folder and View The Contents

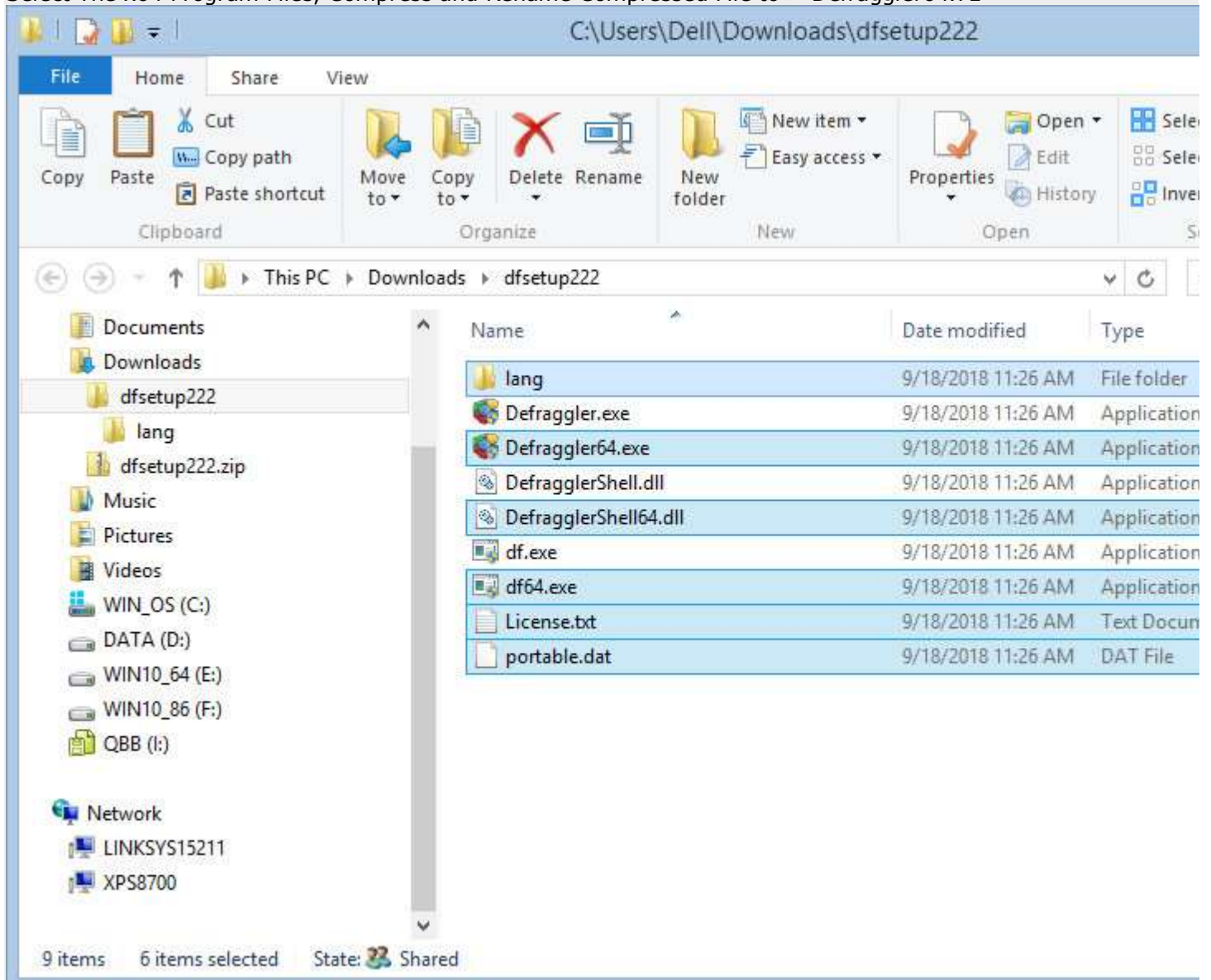


Ok, What We Have Is A Portable Program with Both x86 and X64 Files (Some Websites Have Separate Downloads For x86 and x64 Programs)

For The Sake Of Argument - We Will Create Two Separate Compressed "Setup Files" One For x86 Program Files Select The x86 Program Files, Compress With 7zip and Rename The New Compressed 7z File To > Defraggler.7z



Select The x64 Program Files, Compress and Rename Compressed File to > Defragger64.7z



Open Win10XPE - Expand Utilities - Select XPE Packed Plugin Creator

Build Win10XPE by using an Original Windows 10 ISO x86 or x64...

WinBuilder

BUILD YOUR ENVIRONMENT


Play Refresh Tools Download


Script Source Code Box

XPE Packed Plugin Creator

Prepare XPE Packed Plugins For Portable Applications v.1


32-Bit File Type (7z - Zip - Rar - Exe - Cmd - Bat)

1) 32-Bit: 

64-Bit: 

64-Bit File Type (7z - Zip - Rar - Exe)

2) Program.Exe

3)  Create New XPE Plugin

Plugin Author=

Add Provide Files Folder Option

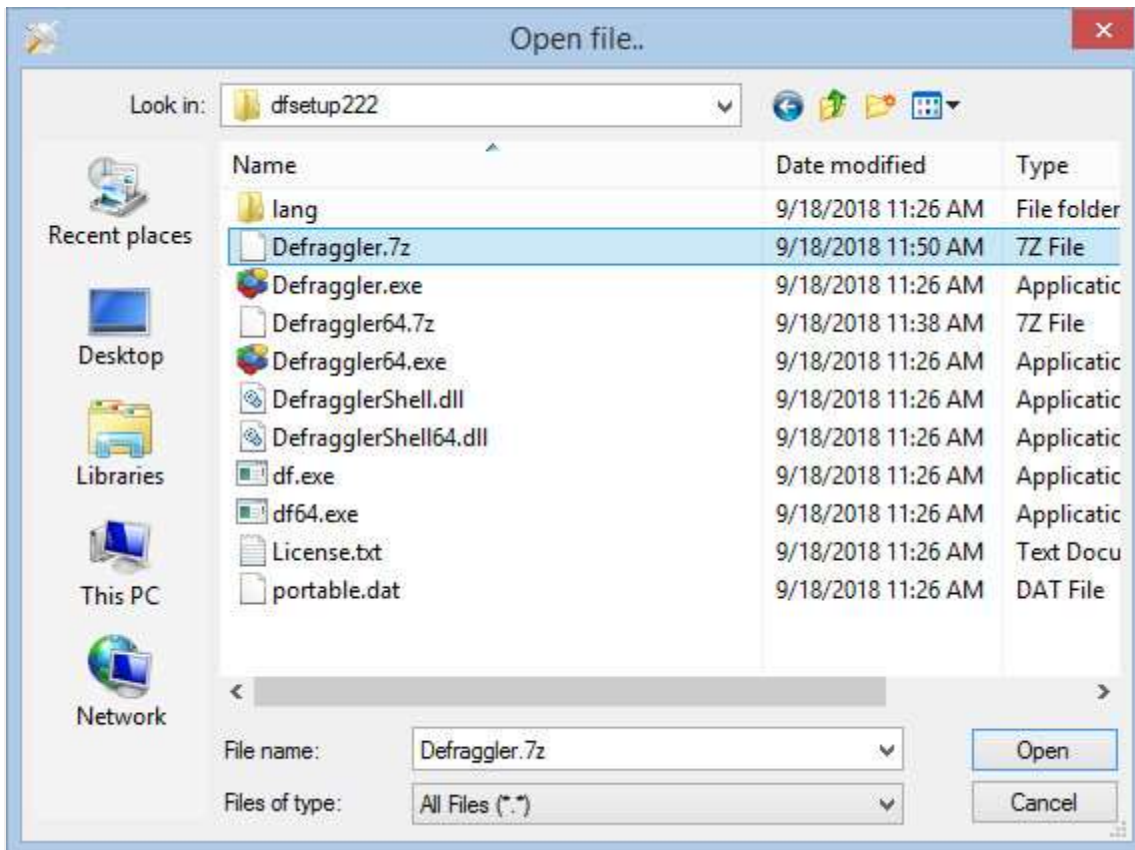
Add Download File Option

App Is 32-Bit Only - Add x64 Support

Show Template Batch Template

Use CTRL+V To Paste -- If You Copy/Paste Then You Must Hit ENTER

Hit The "Folder" Icon For 32Bit and Point To The Defraggler.7z File You Just Created



Do The Same Thing For The 64Bit Defraggler64.7z File You Just Created

Type In the Program.exe - In This Case It Is > Defraggler.exe

Type In The Author Name (Usually Your ScreenName)

Hit The "Create New XPE Plugin" Button

Build Win10XPE by using an Original Windows 10 ISO x86 or x64...

WinBuilder

BUILD YOUR ENVIRONMENT

Play Refresh Tools Download

Script Source Code Box Log

XPE Packed Plugin Creator

Prepare XPE Packed Plugins For Portable Applications v.1

32-Bit File Type (7z - Zip - Rar - Exe - Cmd - Bat)

1) 32-Bit: C:\Users\Dell\Downloads\dfsetup222\Defraggler.7z

64-Bit File Type (7z - Zip - Rar - Exe)

2) Program.Exe: Defraggler.exe

Plugin Author = KYHI

Add Provide Files Folder Option

Add Download File Option

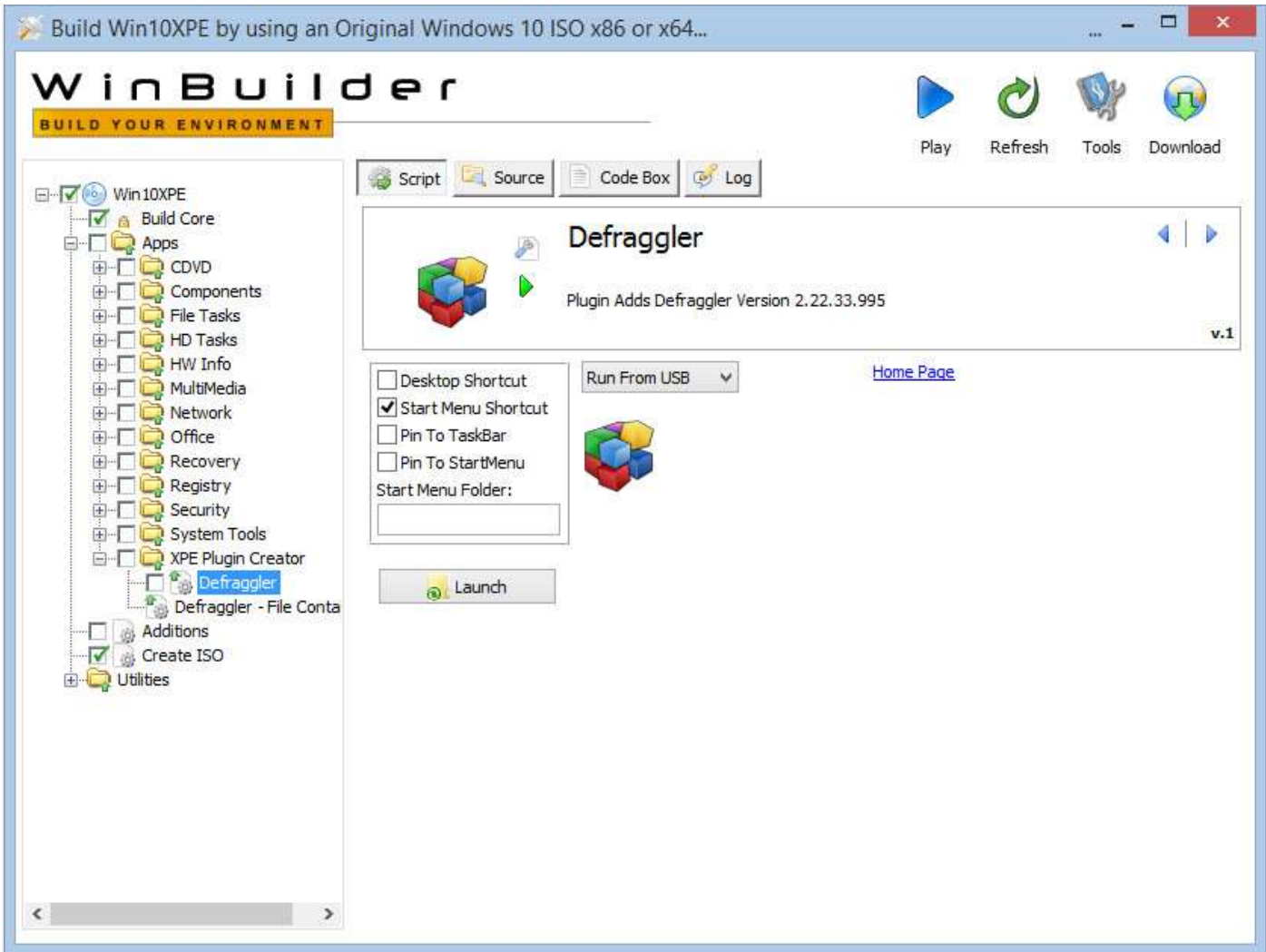
App Is 32-Bit Only - Add x64 Support

3) Create New XPE Plugin

Show Template Batch Template

Use CTRL+V To Paste -- If You Copy/Paste Then You Must Hit ENTER

You Will Find Your New Plugin **For Personal Testing** In Left Pane App/XPE Plugin Creator



Hit The "Launch" Button To Open The Program Folder and Test The Program.exe

I Purposely Left Something Very Simple Out....

It Is Your Homework To Figure Out What...

As It Has Already Been Covered In This Quick Start How-To Guide

Option 1) The Easiest Way To Add Registry Settings Is To Cheat

Read other plugins by using the Edit button and Selecting the Source tab....

Build Win10XPE by using an Original Windows 10 ISO x86 or x64...

WinBuilder

BUILD YOUR ENVIRONMENT

Play Refresh Tools Download

Script Source Code Box

Macrium Reflect Multi-Edition

(Downloaded Installer) Macrium Disk Imaging and Cloning Software v.1

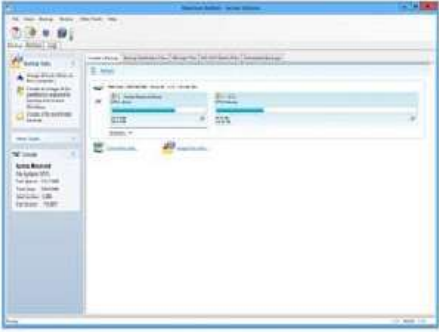
Desktop Shortcut
 Start Menu Shortcut
 Pin To TaskBar
 Pin To StartMenu
Start Menu Folder:
Macrium

Run From USB [Home Page](#)

Use Newest Download
 Use Reduced Files

Select Macrium Edition:
Home Edition

License Key
Licensee Name



The screenshot shows the Macrium Reflect software interface with a progress bar and various settings.

AgentRansack
Everything
Explorer ++
Unlocker
UnlockIT
HD Tasks
Acronis TrueImage 2016
Acronis TrueImage 2017
Acronis TrueImage 2018
Acronis TrueImage 2019
AOMEI Backupper Pro
AOMEI Backupper Std
AOMEI Partition Assistant Pro
AOMEI Partition Assistant Std
AOMEI Dynamic Disk Manager
Bootice
CheckDisk GUI
Defraggler
Macrium Reflect Multi-Edition
Macrium Reflect Free
Macrium Reflect Home
MiniTool Partition Wizard Free
MiniTool Partition Wizard Pro 9
HW Info
MultiMedia
IrfanView
MPC-BE
VLC Media Player
Network
Office
Recovery
Registry
Security
System Tools
XPE Plugin Creator
Additions
Create ISO

If you see the registry line(s) you are looking for - Copy them into your Plugin...

```

104 [Add_Registry]
105 //Registry Setting from Macrium Boot Disk with addition of %LicData% and %PrgrmBuildVer%
106 Echo,"Registering Components..."
107 RegHiveLoad,Tmp_Default,%RegDefault%
108 RegWrite,HKLM,0x4,Tmp_Default\Software\Macrium\Reflect,PEVersion,10
109 RegWrite,HKLM,0x1,Tmp_Default\Software\Macrium\Reflect,License,"%LicData%"
110 RegWrite,HKLM,0x1,Tmp_Default\Software\macrium\reflect,License,"%LicData%"
111 RegWrite,HKLM,0x4,Tmp_Default\Software\Macrium\reflect,version,%PrgrmBuildVer%
112 RegWrite,HKLM,0x4,Tmp_Default\Software\Macrium\Reflect\Settings,Language,1033
113 RegWrite,HKLM,0x4,Tmp_Default\Software\Macrium\Reflect\Splitter,CMainFrame_Splitter0W,310
114 RegWrite,HKLM,0x4,Tmp_Default\Software\Macrium\Reflect\Splitter,RelectView_Splitter_Col_Width,418
115 RegWrite,HKLM,0x4,Tmp_Default\Software\Macrium\Reflect\Splitter,RelectView_Splitter_Row0_Height,170
116 RegWrite,HKLM,0x4,Tmp_Default\Software\Macrium\Reflect\Splitter,RelectView_Splitter_Row1_Height,343
117 RegWrite,HKLM,0x4,Tmp_Default\Software\Macrium\Reflect\Splitter,RelectView_Splitter1_Col_Width,418
118 RegWrite,HKLM,0x4,Tmp_Default\Software\Macrium\Reflect\Splitter,RelectView_Splitter1_Row0_Height,170
119 RegWrite,HKLM,0x4,Tmp_Default\Software\Macrium\Reflect\Splitter,RelectView_Splitter1_Row1_Height,343
120 RegWrite,HKLM,0x4,Tmp_Default\Software\Macrium\Reflect\Splitter,RelectView_Splitter2_Col_Width,418
121 RegWrite,HKLM,0x4,Tmp_Default\Software\Macrium\Reflect\Splitter,RelectView_Splitter2_Row0_Height,170
122 RegWrite,HKLM,0x4,Tmp_Default\Software\Macrium\Reflect\Splitter,RelectView_Splitter2_Row1_Height,343
123 RegWrite,HKLM,0x4,Tmp_Default\Software\Macrium\Reflect\Splitter,RelectView_Splitter3_Col_Width,418
124 RegWrite,HKLM,0x4,Tmp_Default\Software\Macrium\Reflect\Splitter,RelectView_Splitter3_Row0_Height,170
125 RegWrite,HKLM,0x4,Tmp_Default\Software\Macrium\Reflect\Splitter,RelectView_Splitter3_Row1_Height,343
126 RegWrite,HKLM,0x4,Tmp_Default\Software\Macrium\Reflect\Splitter,RelectView_Splitter4_Col_Width,418
127 RegWrite,HKLM,0x4,Tmp_Default\Software\Macrium\Reflect\Splitter,RelectView_Splitter4_Row0_Height,170
128 RegWrite,HKLM,0x4,Tmp_Default\Software\Macrium\Reflect\Splitter,RelectView_Splitter4_Row1_Height,343
129 RegHiveUnLoad,Tmp_Default
130 RegHiveLoad,Tmp_Software,%RegSoftware%
131 RegWrite,HKLM,0x1,Tmp_Software\Macrium\Common\Shared\Files,reflect.exe,"%PE_Programs%\%ProgramFolder%\Reflect."
132 RegWrite,HKLM,0x1,Tmp_Software\Macrium\Common\Shared\Folders,Reflect,"%PE_Programs%\%ProgramFolder%"
133 RegWrite,HKLM,0x4,Tmp_Software\Macrium\reflect,TasksUpgraded,1
134 RegWrite,HKLM,0x1,Tmp_Software\Macrium\reflect\Security,"App Path,"%PE_Programs%\%ProgramFolder%\Reflect."
135 RegHiveUnLoad,Tmp_Software
136

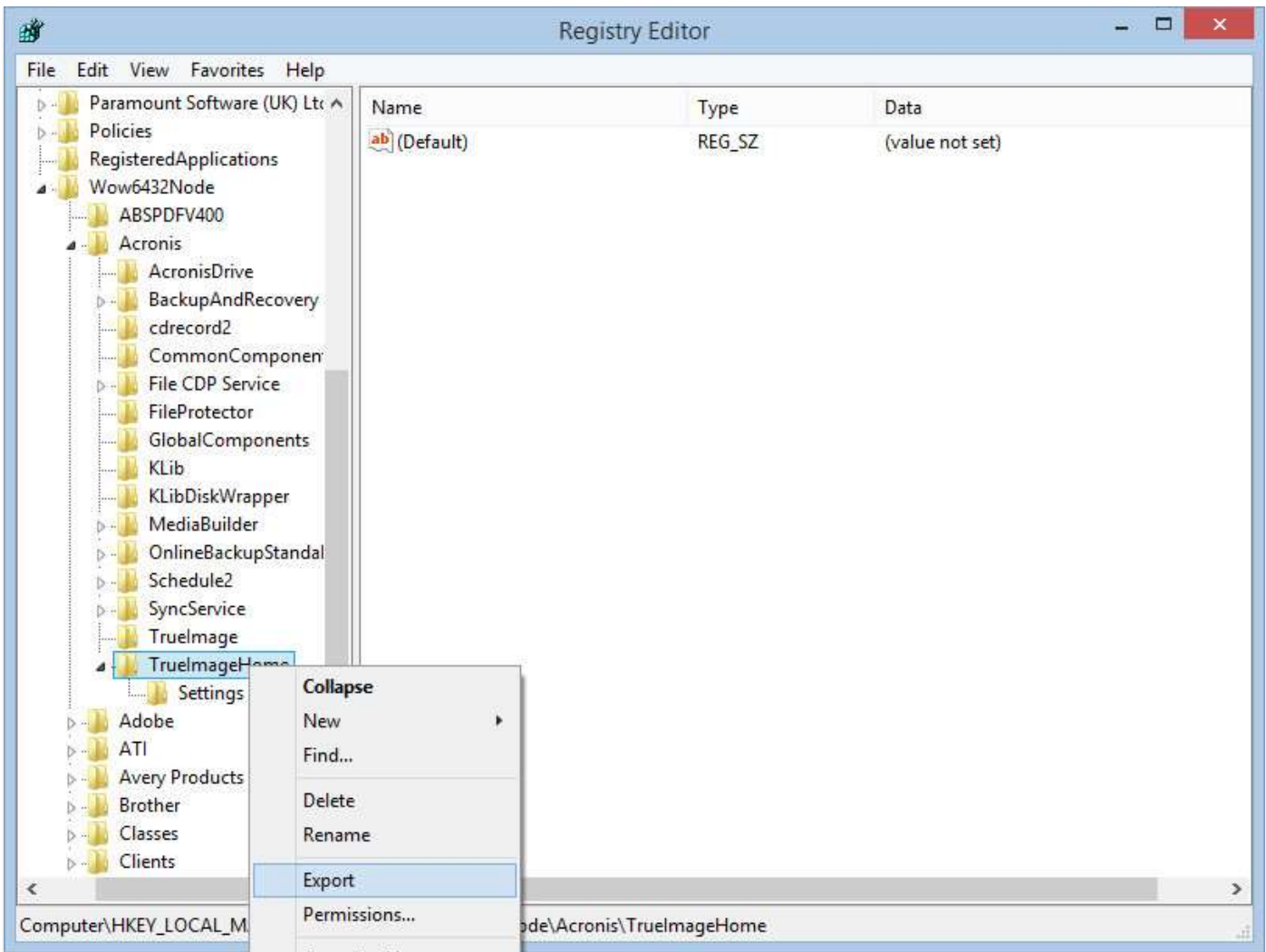
```

This is where this Game gets Very Tricky and Requires Experience...

And it will require you to do a lot of Testing with your Plugin Settings
 On the Plus Side > it is PE and written to rewritable media
 If you screw up - Erase, Rebuild and Test Again

Option 2) Export The Registry Settings

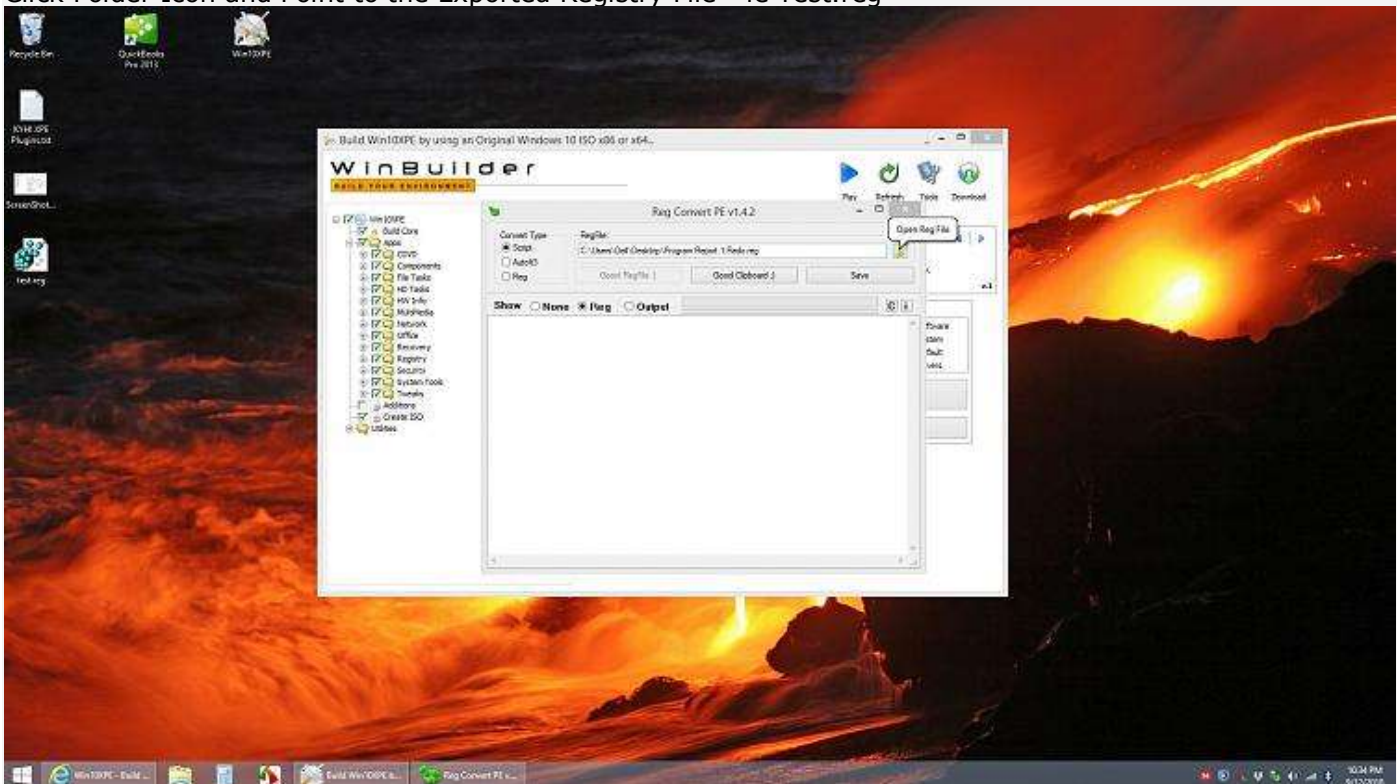
You Can Export the Registry Settings from your Host Registry or PE Registry using RegEdit

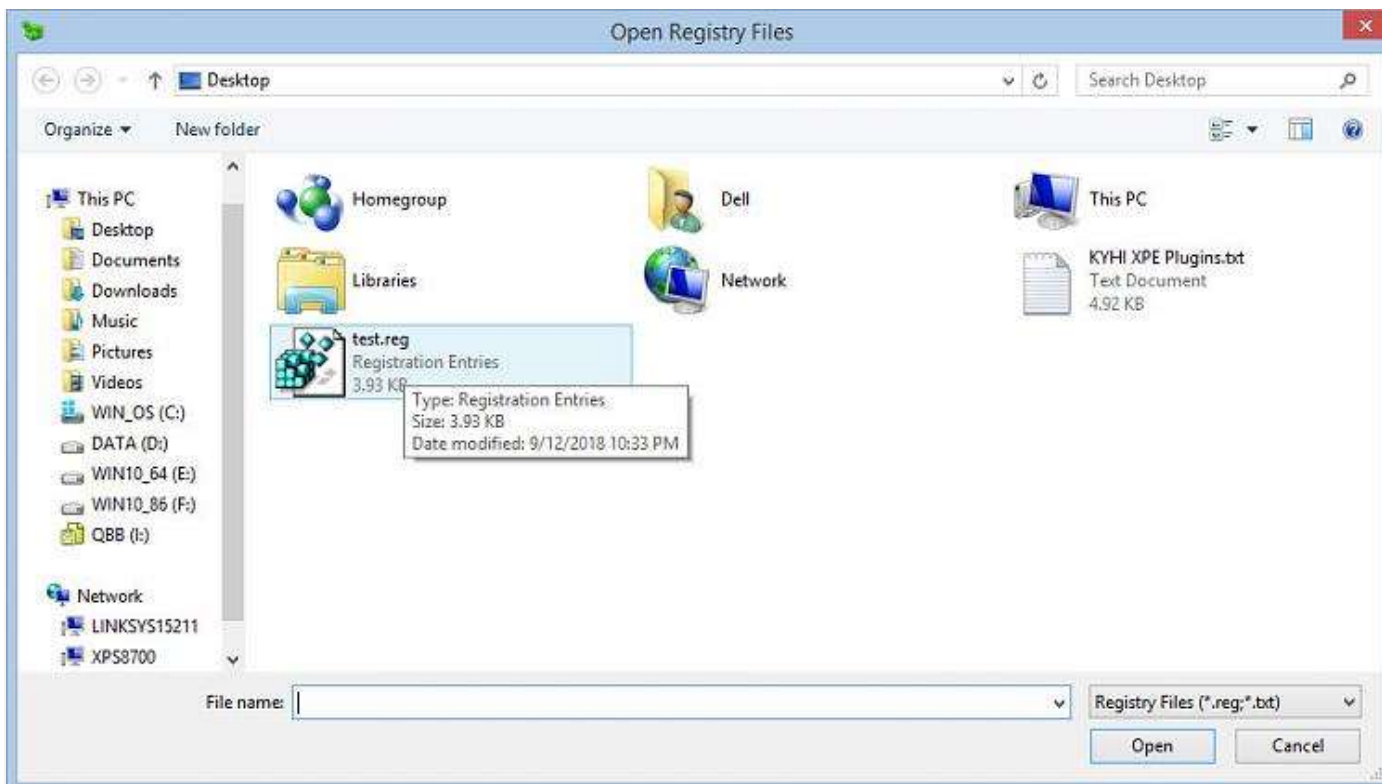


Select Create ISO Plugin and on Interface Hit the "Reg Convert PE" Button

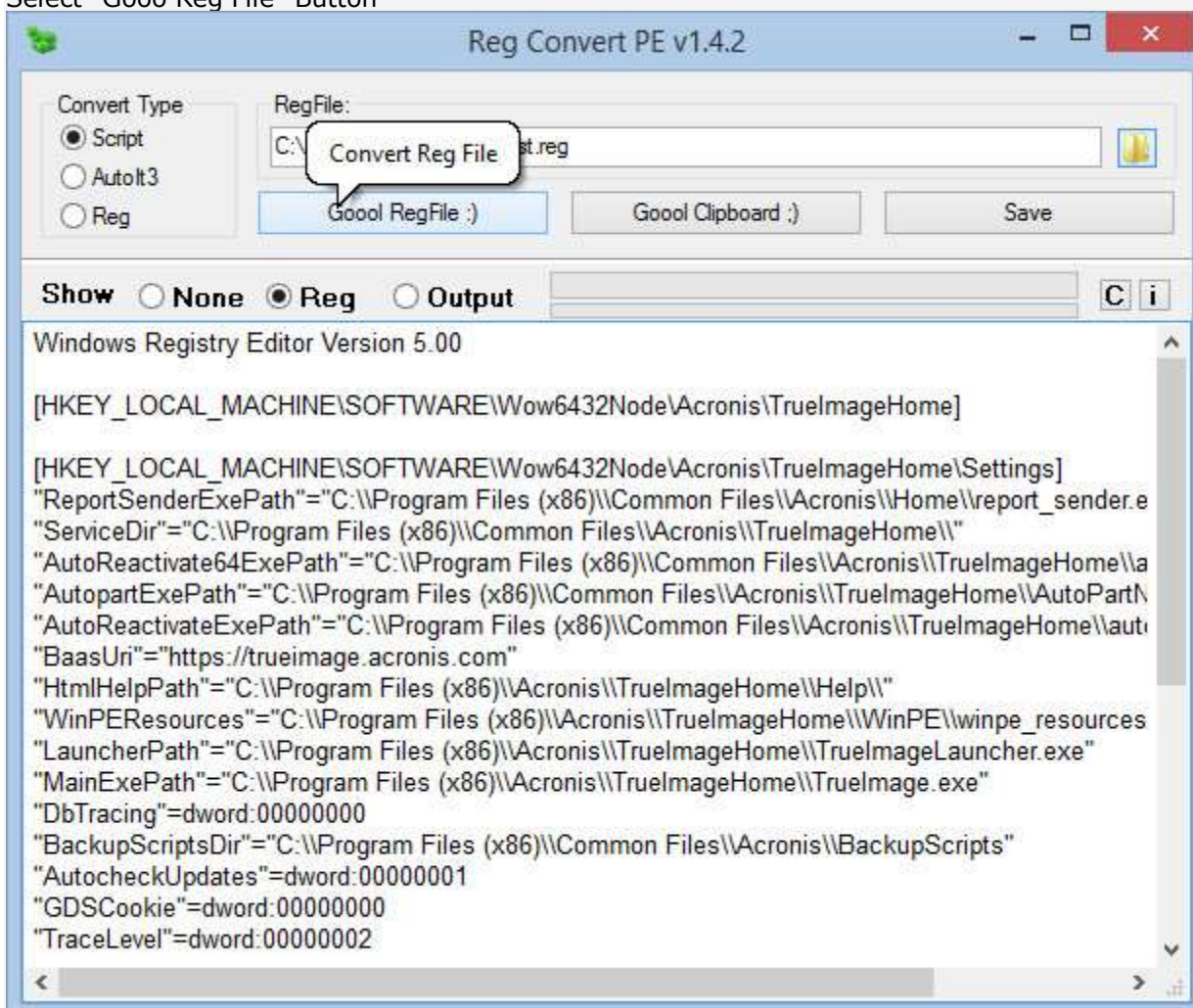


Click Folder Icon and Point to the Exported Registry File - ie Test.reg

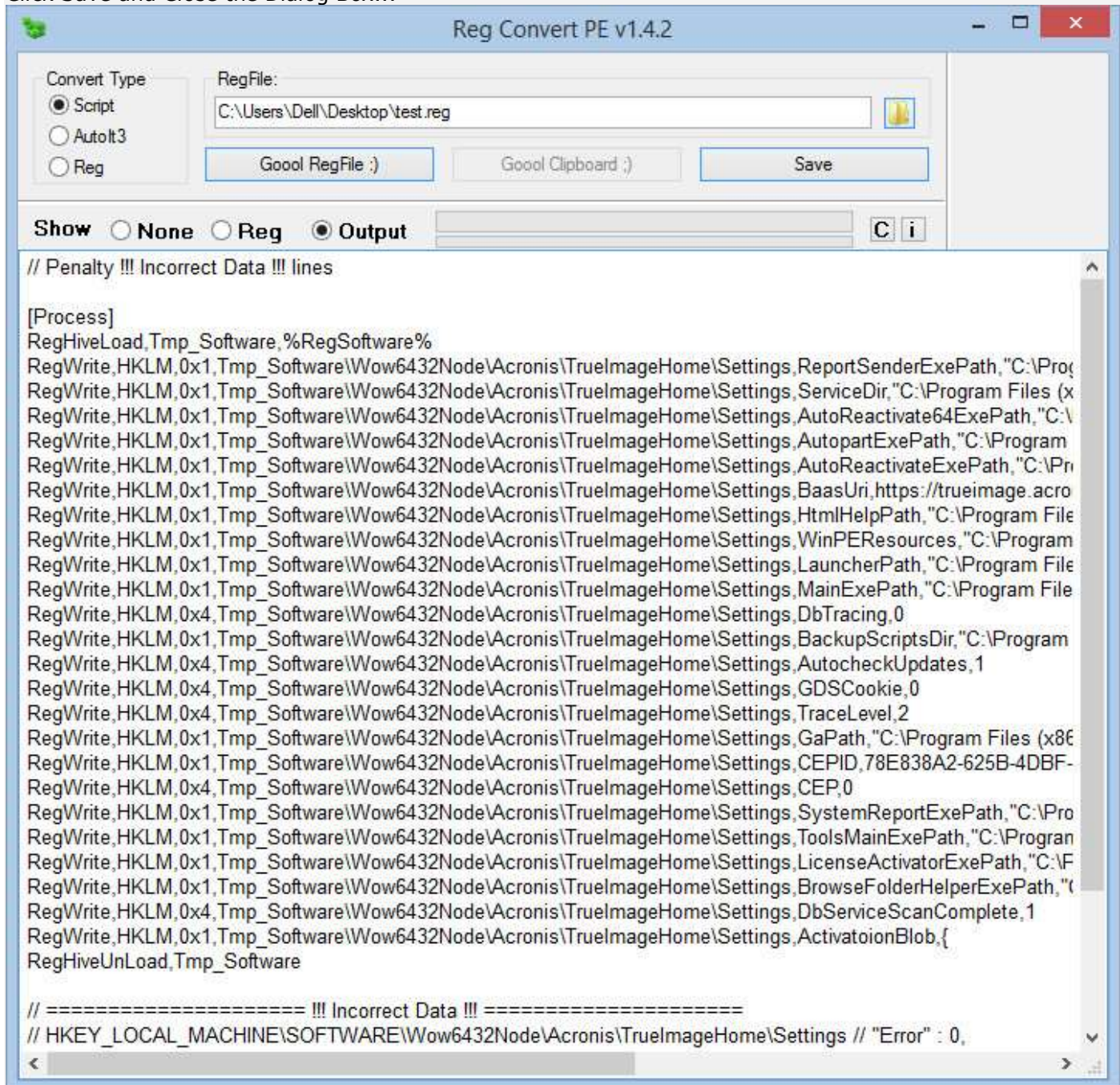




Select "Goo Reg File" Button



Click Save and Close the Dialog Box...



The Script File Created is the code for adding the registry setting you exported and are going to use in your Plugin

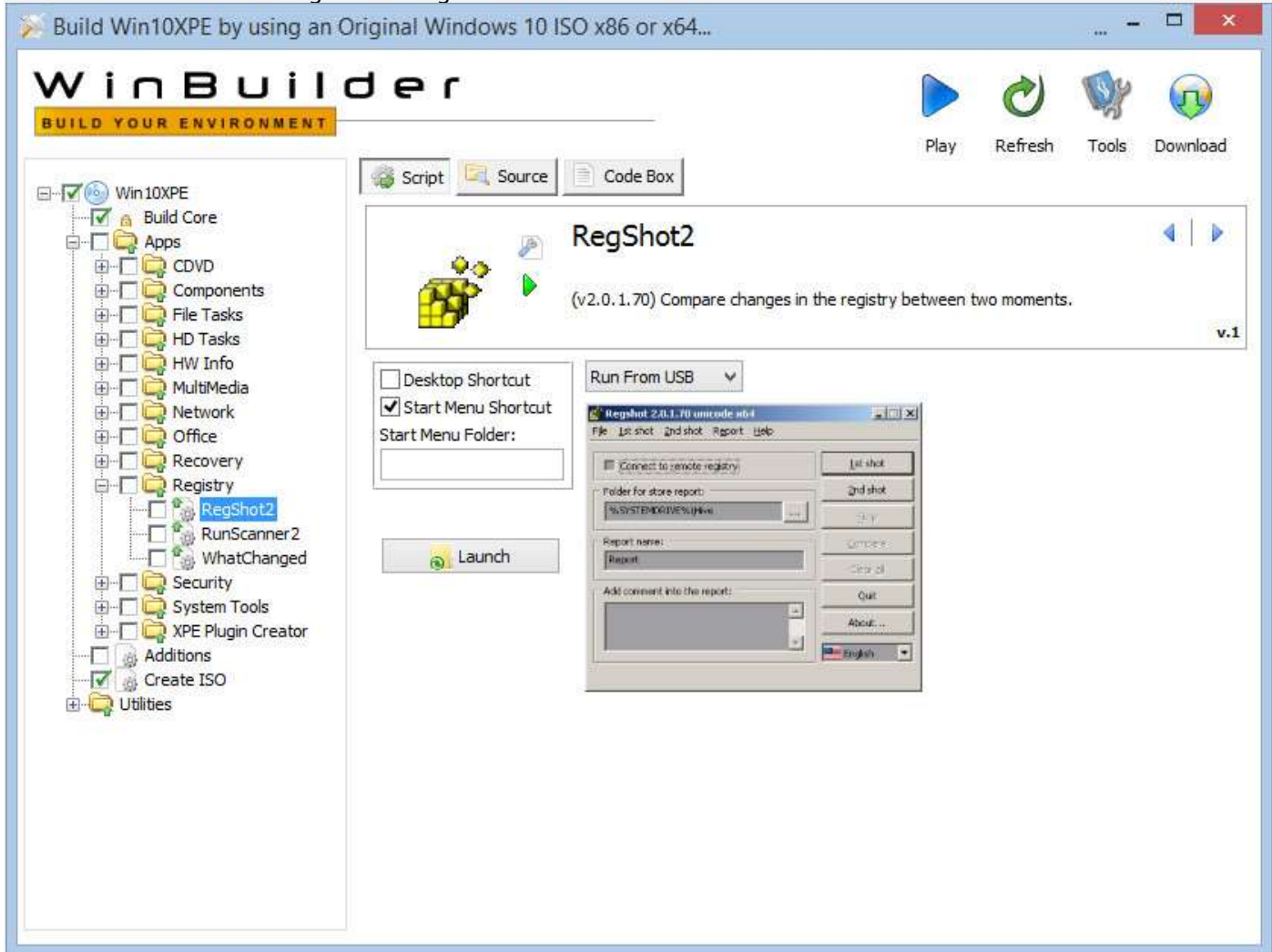
You will not use that Script File [process] but the code for the settings will be copied under [Add-Registry] in your plugin.....

Be Very CAREFULL and Read the Settings as they are exported from a different Host and many use different Folder locations

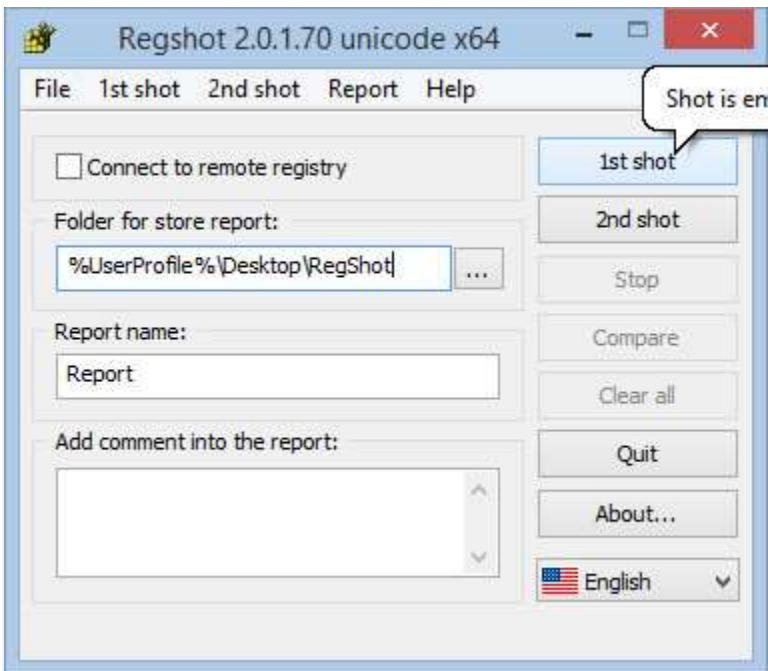
YOU will need to change this information and you may not need to add all the registry settings....

Option 3) Capture The Registry Settings Before and After The Programs Installation Process

Launch or Execute The RegShot2 Program



Hit The "1st Shot" Button and Select "Whole Registry"



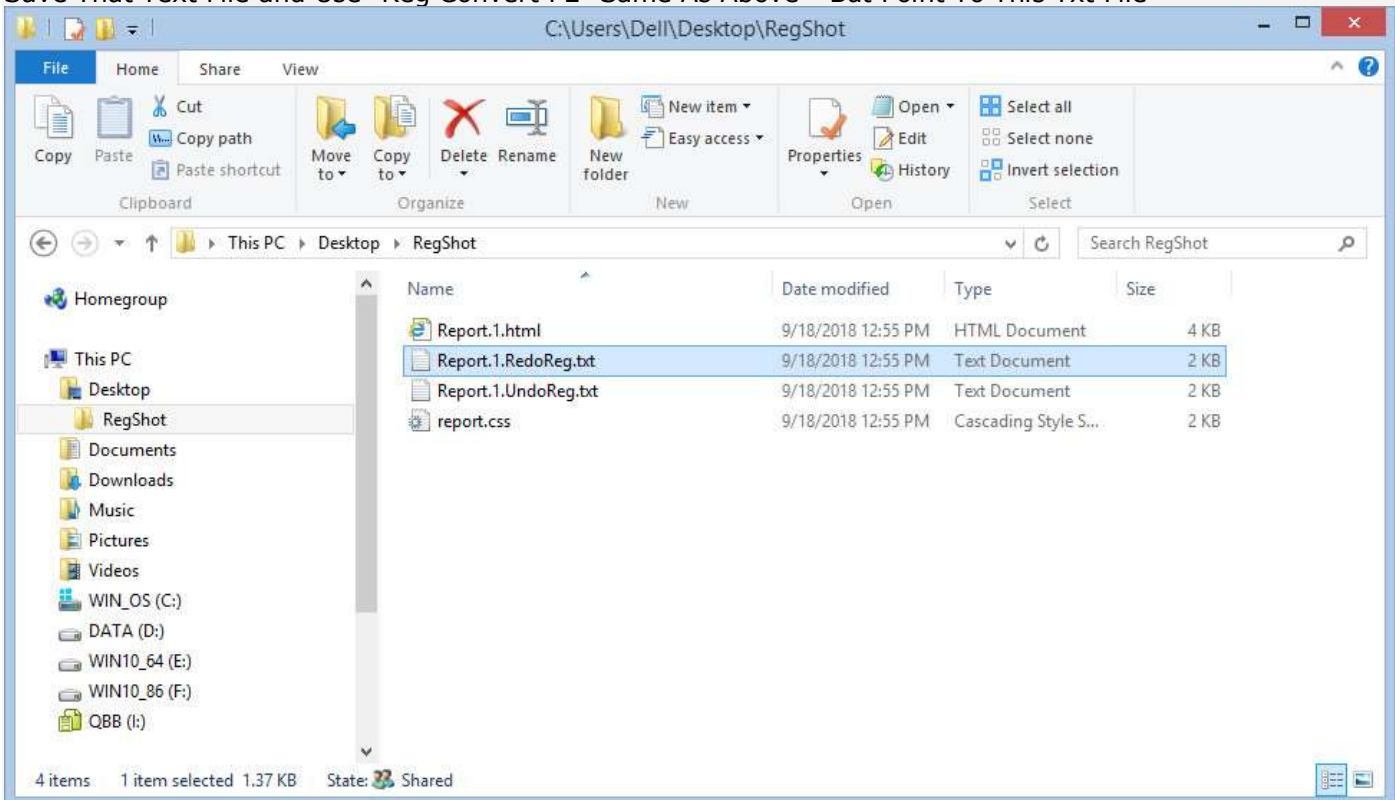
Note: I Changed The Default "Folder For Store Report" To > %UserProfile%\Desktop\RegShot

Run the Installer File That You Want To Capture The Registry Changes For

Then Take "2nd Shot - Whole Registry"

The > Report.*.RedoReg.txt < File Contains The Registry Changes Created By The Installer

Save That Text File and Use "Reg Convert PE" Same As Above - But Point To This Txt File



Find Missing or Required Files

Quote from: muggles

I'm no expert, but a post by ChrisR with the tip to sort on CreateFile allowed success on the few that I tried it on.

Here is my process, I hope this helps and others pitch in with more experience than what I have.

-Start Process Monitor (Procmon.exe) then Start The Program.

-Find the **Program.exe** in the **Process Name Column**, Right-Click and choose **Include "Program.exe"**.

-Find the word **SUCCESS** in the **Result Column**, Right-Click and choose **Exclude "SUCCESS"**.

-Find the word **CreateFile** in the **Operation Column**, Right-Click and choose **Include "CreateFile"**.

You should see the Required or Missing Files listed with "NAME NOT FOUND" and see the Path The Program Searched for them.

Properly Test Your New Plugin

Deselect all other APPs (uncheck Apps Folder)

Deselect all MS Features from Build Core

Select Just your New Plugin

Select Build Core Plugin

Select Create ISO Plugin

Process The New Build

Test Boot Into XPE WinPE

Test if Program Launches and Runs Without Error

Does it have all required files to run without support from other plugins

Does it open the correct file type for the program

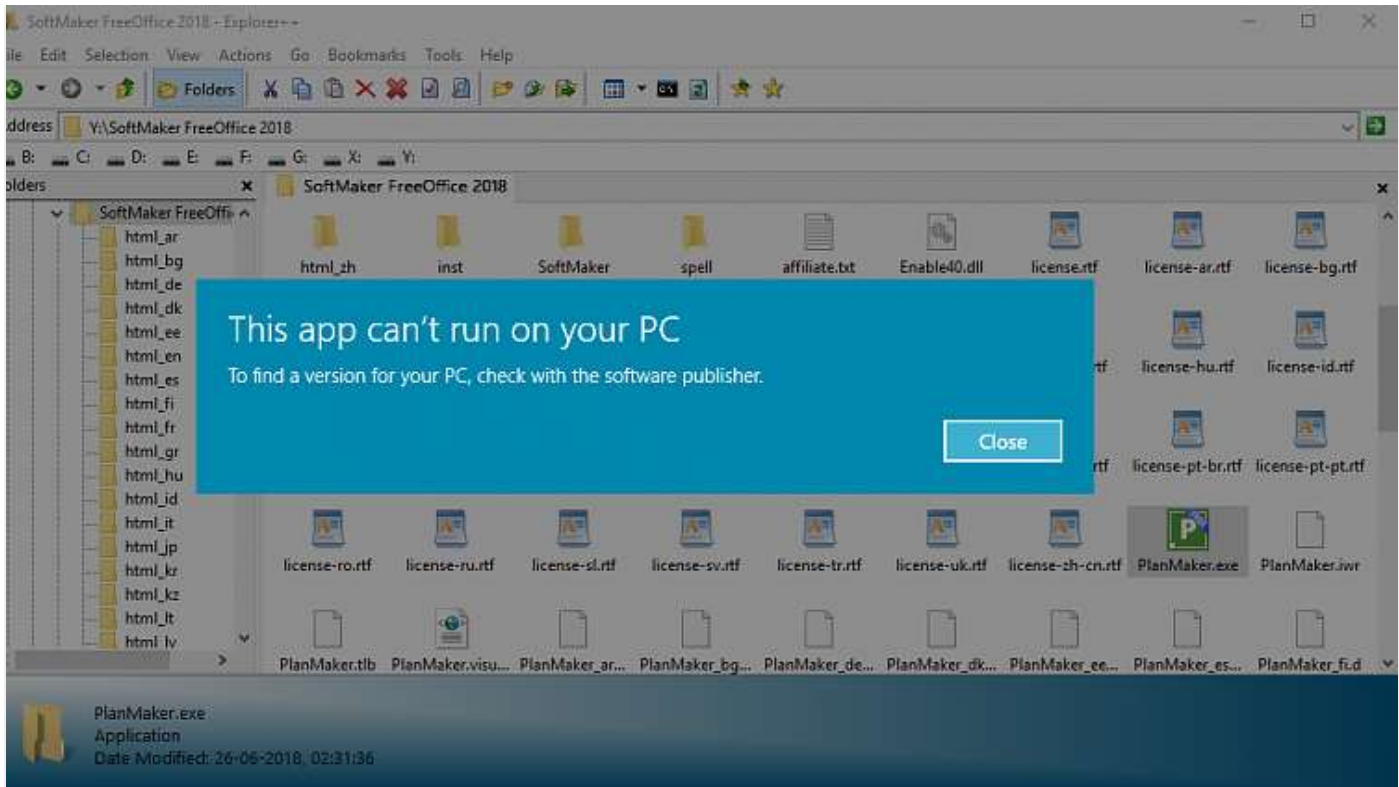
Does it scan properly or create required file

Select the "About" - Usually to test Registry Settings

Etc...

Note: Some Non-Portable Programs' Require MS Files, Need a few Registry Entries and Require Driver Files Copied into System32

Test Your Plugin Using Both x86 and x64 Builds



When You Are Satisfied With Your New Plugin - Please Share It For Other Members To Test

All This Takes A lot Of Time, Testing and Learning To Get Things Right..

That Is What Makes This A Hobby For Us...

And A Great Self Taught Experience That Will Last A Lifetime...

From Me and All The Other Members Here At TheOven

Enjoy!!

I use 3 programs consistently when creating Apps..

Process Monitor

Regshot2

What Changed

- 1) Download the App Installer
- 2) see if Installer is compressed by using 7zip to open archive
- 3) Create a Base Build of XPE To Ram (No Feature Options and only those 3 Apps)
 - 3a) if Installer or Installer Archive has .msi extension - add MSI support
 - 3b) if x64 Build - Add WOW64 Basic Support
- 4) Boot XPE
- 4a) Run What Changed > X: > Take first snapshot

4b) Run RegShot2 - Take First Shot > Whole Registry

5) Run App Installer but do not allow launch of App - If No Error continue - else - may need to add NetFX4 or other support to build

5a) Take second snapshot with What Changed - report in program folder what changed - snapshot2.txt

5b) Take second shot with Regshot2 - desktop folder - reg-redo.txt

5c) Save Both txt Files for later use....

6) Run Process Monitor > there are 4 selected (blue) Icons in top pane - deselect all but File Cabinet

The screenshot shows the Process Monitor application window with the following data:

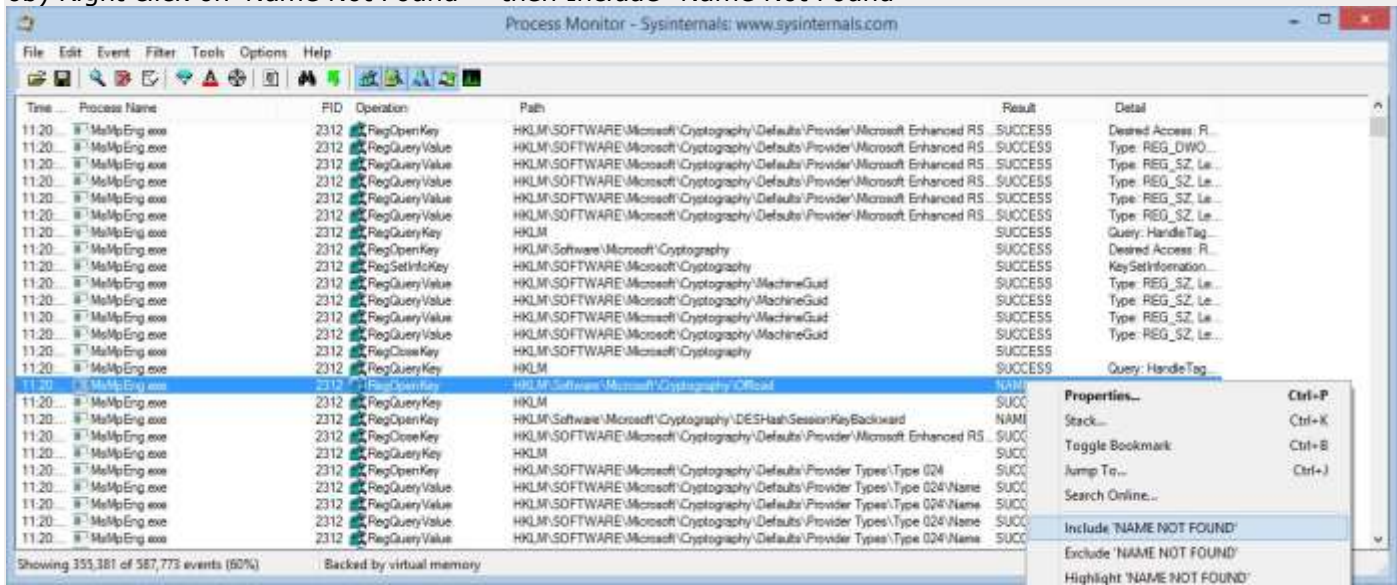
Time	Process Name	PID	Operation	Path	Result	Detail
11:20:...	MsMpEng.exe	2312	RegOpenKey	HKLM\SOFTWARE\Microsoft\Cryptography\Defaults\Provider\Microsoft Enhanced RS...	SUCCESS	Desire:
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\Defaults\Provider\Microsoft Enhanced RS...	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\Defaults\Provider\Microsoft Enhanced RS...	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\Defaults\Provider\Microsoft Enhanced RS...	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\Defaults\Provider\Microsoft Enhanced RS...	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\Defaults\Provider\Microsoft Enhanced RS...	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryKey	HKLM	SUCCESS	Query:
11:20:...	MsMpEng.exe	2312	RegOpenKey	HKLM\Software\Microsoft\Cryptography	SUCCESS	Desire:
11:20:...	MsMpEng.exe	2312	RegSetInfoKey	HKLM\SOFTWARE\Microsoft\Cryptography	SUCCESS	KeySet
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\MachineGuid	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\MachineGuid	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\MachineGuid	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\MachineGuid	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegCloseKey	HKLM\SOFTWARE\Microsoft\Cryptography	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryKey	HKLM	SUCCESS	Query:
11:20:...	MsMpEng.exe	2312	RegOpenKey	HKLM\Software\Microsoft\Cryptography\Offload	NAME NOT FOUND	Desire:
11:20:...	MsMpEng.exe	2312	RegQueryKey	HKLM	SUCCESS	Query:
11:20:...	MsMpEng.exe	2312	RegOpenKey	HKLM\Software\Microsoft\Cryptography\DESHashSessionKeyBackward	NAME NOT FOUND	Desire:
11:20:...	MsMpEng.exe	2312	RegCloseKey	HKLM\SOFTWARE\Microsoft\Cryptography\Defaults\Provider\Microsoft Enhanced RS...	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryKey	HKLM	SUCCESS	Query:
11:20:...	MsMpEng.exe	2312	RegOpenKey	HKLM\SOFTWARE\Microsoft\Cryptography\Defaults\Provider Types\Type 024	SUCCESS	Desire:
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\Defaults\Provider Types\Type 024\Name	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\Defaults\Provider Types\Type 024\Name	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\Defaults\Provider Types\Type 024\Name	SUCCESS	Type: I

6a) Under the "Result" Header - find a "Name Not Found"

The screenshot shows the Process Monitor application window with the following data:

Time	Process Name	PID	Operation	Path	Result	Detail
11:20:...	MsMpEng.exe	2312	RegOpenKey	HKLM\SOFTWARE\Microsoft\Cryptography\Defaults\Provider\Microsoft Enhanced RS...	SUCCESS	Desire:
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\Defaults\Provider\Microsoft Enhanced RS...	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\Defaults\Provider\Microsoft Enhanced RS...	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\Defaults\Provider\Microsoft Enhanced RS...	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\Defaults\Provider\Microsoft Enhanced RS...	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\Defaults\Provider\Microsoft Enhanced RS...	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryKey	HKLM	SUCCESS	Query:
11:20:...	MsMpEng.exe	2312	RegOpenKey	HKLM\Software\Microsoft\Cryptography	SUCCESS	Desire:
11:20:...	MsMpEng.exe	2312	RegSetInfoKey	HKLM\SOFTWARE\Microsoft\Cryptography	SUCCESS	KeySet
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\MachineGuid	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\MachineGuid	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\MachineGuid	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\MachineGuid	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegCloseKey	HKLM\SOFTWARE\Microsoft\Cryptography	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryKey	HKLM	SUCCESS	Query:
11:20:...	MsMpEng.exe	2312	RegOpenKey	HKLM\Software\Microsoft\Cryptography\Offload	NAME NOT FOUND	Desire:
11:20:...	MsMpEng.exe	2312	RegQueryKey	HKLM	SUCCESS	Query:
11:20:...	MsMpEng.exe	2312	RegOpenKey	HKLM\Software\Microsoft\Cryptography\DESHashSessionKeyBackward	NAME NOT FOUND	Desire:
11:20:...	MsMpEng.exe	2312	RegCloseKey	HKLM\SOFTWARE\Microsoft\Cryptography\Defaults\Provider\Microsoft Enhanced RS...	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryKey	HKLM	SUCCESS	Query:
11:20:...	MsMpEng.exe	2312	RegOpenKey	HKLM\SOFTWARE\Microsoft\Cryptography\Defaults\Provider Types\Type 024	SUCCESS	Desire:
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\Defaults\Provider Types\Type 024\Name	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\Defaults\Provider Types\Type 024\Name	SUCCESS	Type: I
11:20:...	MsMpEng.exe	2312	RegQueryValue	HKLM\SOFTWARE\Microsoft\Cryptography\Defaults\Provider Types\Type 024\Name	SUCCESS	Type: I

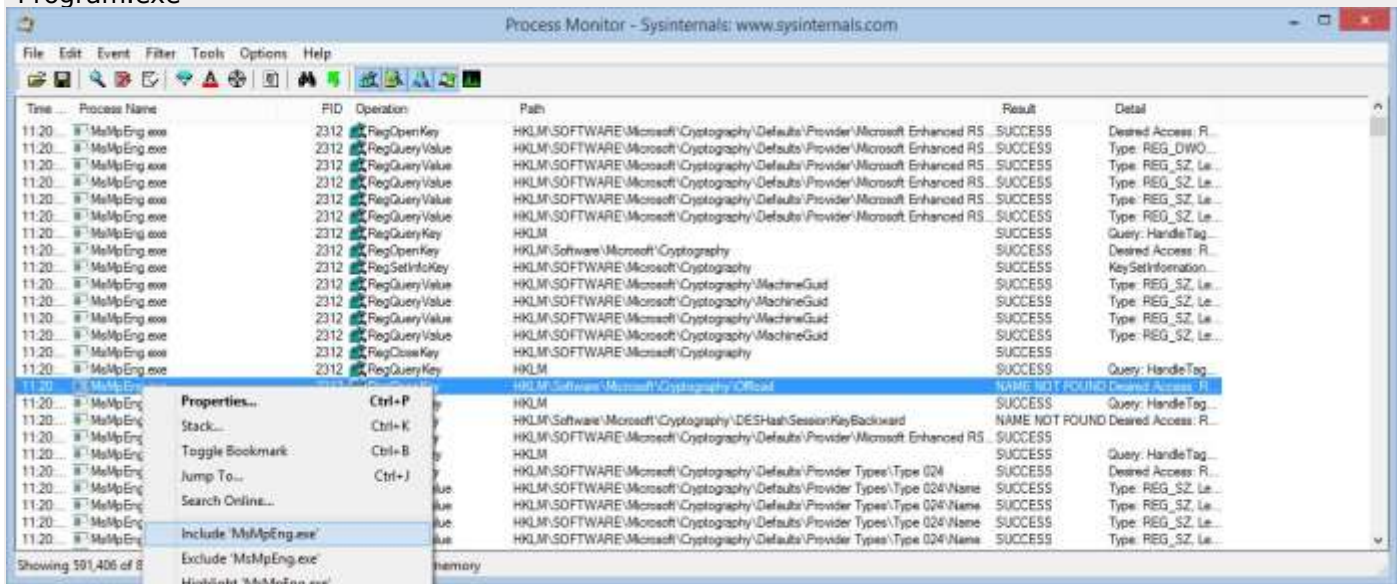
6b) Right click on 'Name Not Found' - then Include "Name Not Found"



Now Process monitor is filtered to look only for files that are not found

7) Launch the App and navigate around in the App - leave App Minimized or open...

8) Go into Process monitor - Under "Process Name" Header find the program.exe - right click Include "Program.exe"



Now Process Monitor filtered to find only files not found by program exe...

You can create other filters as well (not going to get into that now)

But you are generally looking for System32 and Syswow64 files

right click file name > Copy > Paste to New Txt Document, then save..

With those 3 saved txt files and a compare of the extracted files - you should be able to create a reliable App...

That is the challenge and the enjoyment for me..

Hope this helps... Enjoy!

