ASCOM C# Drivers Inno Setup Checklist

The following is a checklist and an annotated <u>walk-through</u> example of generating a Windows install .EXE using the example of generating an ASCOM C# Driver for a fictitious company/product called Acme. The end result is a working Windows install .EXE of a tested "working", "non-functional" ASCOM Focuser driver skeleton framework.

- - "working" means the driver passes the Conformance Checker tool
- "non-functional" means it controls no actual hardware (yet)

Development Environment

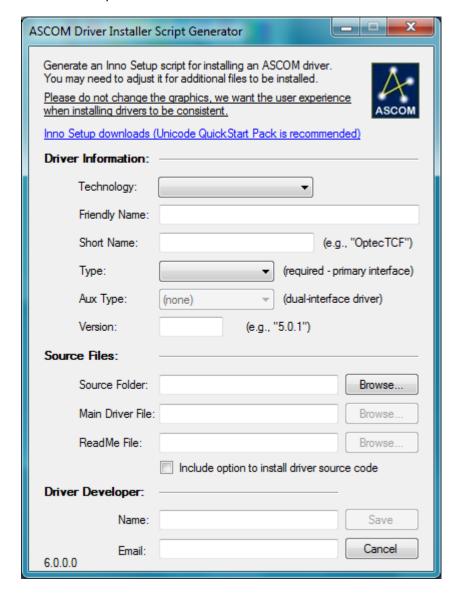
- 64-bit Windows 7
- Visual C# 2010 Express Edition
- ASCOM Platform 6.1SP1 installed
- ASCOM Platform Developer Components installed
- ASCOM Driver Conformance Checker installed
- Inno Setup installed
- Inno Setup QuickStart Pack installed

		Checklist			Image SetupScreen.png		
	,	Run the ASCOM Driver Install Script Generator					
	,	Select Driver Information: ➤ Technology: .NET assembly (dll)					
	3)	Set Driver Information: ➤ Short N	lame	:Acme			
	4)	Select Driver Information: ➤ Type	e:	Focuser			
	5)	Set Driver Information: ➤ Version	n:	1.2			
	6)	Browse to and select Focuser S	ource F	iles:≻Source Folder:			
			_	\CSharp Projects\ASCOM\Acme\Focuser			
	7)	Browse to and select Focuser's	Source	Files: ➤ Main Driver File: ASCOM.Acme.Focuser.dll			
	8)	Browse to and select Focuser's	Source	Files:≻ReadMe File: ReadMe.htm			
	9)	Driver Developer:≻Name:	XYZ				
	10)	Driver Developer:≻Email:	хух@ху	/z.com	<u>Driver.png</u>		
	11)	Save					
	The : Stud		nation in	an Inno script in the Focuser's project folder and oper	ns Inno Script		
	12)	In Inno Script Studio, change the [Setup]AppSupportURL to "http://groups.yahoo.com/group/ASCOM-Talk/"					
	13)	13) In Inno Script Studio, change the [Setup]OutputBaseFilename to "Acme Focuser Setup"					
	14)) In Inno Script Studio, replace the contents of the [Files] section with:					
				COM.Acme.Focuser.dll"; DestDir: "{app}"			
$\overline{}$	15)	Source: ".\ReadMe	e.htm";	DestDir: "{app}"; Flags: isreadme			
			tha Vieu	al Studio IDE and compile the Inno script with			
ш	10)	6) Make sure solution is closed in the Visual Studio IDE and compile the Inno script with Project≻Compile					
	17)	Exit Inno Script Studio					
		·					
	The	driver setup EXE is now located	in the Fo	ocuser project folder as: Acme Focuser Setup.exe			
П	18)) Run the setup's Acme Focuser Setup.exe to install the Acme Focuser driver SetupWizard.png					
	,	Verify the following files are added in:					
_	- /	C:\Program Files (x86)\Common Files\ASCOM\Focuser					
		- ASCOM.Acme.Focuser.dll					
		- ReadMe.htm					

20)	Verify the following folder and files are added in: C:\Program Files (x86)\Common Files\ASCOM\Uninstall\Focuser\Acme - unins000.dat - unins000.exe
At th	is point, the Acme Focuser driver should be available for use.
21)	Run the 32-bit ASCOM Conform tool, choose the <i>ASCOM Focuser Driver for Acme.</i> , Check Conformance and verify that no errors, warnings or issues are found and the Focuser driver passes ASCOM validation!!
22)	Run the 64-bit ASCOM Conform tool, choose the <i>ASCOM Focuser Driver for Acme.</i> , Check Conformance and verify that no errors, warnings or issues are found and the Focuser driver passes ASCOM validation!!
23)	Run the Windows uninstall tool to uninstall ASCOM Acme Focuser Driver 1.2
24)	Verify the following files have been removed from:
	C:\Program Files (x86)\Common Files\ASCOM\Focuser - ASCOM.Acme.Focuser.dll - ReadMe.htm
25)	Verify the following folder (and its files) has been removed from: C:\Program Files (x86)\Common Files\ASCOM\Uninstall\Focuser - Acme
At th	is point, the Acme Focuser should no longer be available in Conform 's Select Driver.
	: If the driver was installed on a 64-bit O.S., after the uninstall, some of the registry entries associated with the it install still remain in the registry. This is a known issue! (Work-around: In the Inno Setup script, in the [UninstallRun] section, after the "{dotnet4032}\regasm.exe" line, add a "{dotnet4064}\regasm.exe" line, copied from the [Run] section, to re-register the 64-bit driver immediately before unregistering it.)

ASCOM C# Drivers Inno Setup Walk-Through

1) Run the ASCOM Driver Install Script Generator



- 2) Select Driver Information: Technology: .NET assembly (dll) (Drivers developed in Visual C# are .NET assembly DLL's.)
- 3) Set Driver Information: ➤ Short Name: **Acme** (This is the company or product name as shown in the install screens.)

Select Driver Information: ➤ Type: Focuser

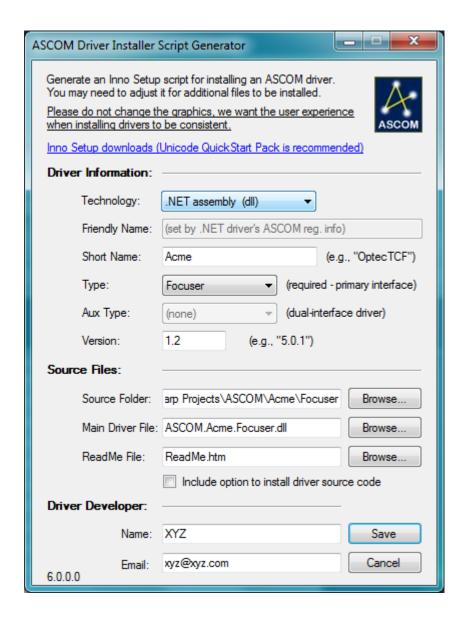
5) Set Driver Information: ➤ Version: 1.2

- 6) Browse to and select Focuser Source Files: Source Folder: ...\CSharp Projects\ASCOM\Acme\Focuser (This is the base folder path of the driver, read-me, and source files.)
- 7) Browse to and select Focuser's Source Files: ➤ Main Driver File: ASCOM.Acme.Focuser.dll

 (Note: The script generator always prepends "bin\Release" to this file name. If this is not correct, it will need to be subsequently changed in the Inno Script Studio tool.)

- 8) Browse to and select Focuser's Source Files: ➤ ReadMe File: ReadMe.htm

 (This needs to be the release notes or driver user information file, not the ReadMe.htm that is part of the Driver template.)
- 9) Driver Developer: ➤Name: XYZ (This is the company or developer's name as shown in the "Support" dialog of the Windows Add/Remove Programs tool.)
- 10) Driver Developer: ➤ Email: xyx@xyz.com (This is the email address as shown in the "Support" dialog of the Windows Add/Remove Programs tool.)



11) Save

The script generator saves the information in an Inno script in the Focuser's project folder and opens Inno Script Studio.

12) In Inno Script Studio, change the [Setup]AppSupportURL to "http://groups.yahoo.com/group/ASCOM-Talk/"
(This is the link address as shown in the "Help link" dialog of the Windows Add/Remove Programs tool.)

- 13) In Inno Script Studio, change the [Setup]OutputBaseFilename to "Acme Focuser Setup" (This will be the file name of the generated Windows install .EXE.)
- 14) In Inno Script Studio, replace the contents of the [Files] section with:

```
Source: ".\bin\Debug\ASCOM.Acme.Focuser.dll"; DestDir: "{app}" Source: ".\ReadMe.htm"; DestDir: "{app}"; Flags: isreadme
```

(For the Release build configuration, the DLL path will probably include "Release" instead of "Debug".)

- 15) Save any changes
- 16) Make sure solution is closed in the Visual Studio IDE and compile the Inno script with Project ≻Compile
- 17) Exit Inno Script Studio

The driver setup EXE is now located in the Focuser project folder as: Acme Focuser Setup.exe

18) Run the setup's Acme Focuser Setup.exe to install the Acme Focuser driver



- 19) Verify the following files are added in:
 - C:\Program Files (x86)\Common Files\ASCOM\Focuser
 - ASCOM.Acme.Focuser.dll
 - ReadMe.htm
- 20) Verify the following folder and files are added in:
 - C:\Program Files (x86)\Common Files\ASCOM\Uninstall\Focuser\Acme
 - unins000.dat
 - unins000.exe

At this point, the Acme Focuser driver should be available for use.

- 21) Run the 32-bit ASCOM **Conform** tool, choose the *ASCOM Focuser Driver for Acme.*, Check Conformance and verify that no errors, warnings or issues are found and the Focuser driver passes ASCOM validation!!
- 22) Run the 64-bit ASCOM **Conform** tool, choose the *ASCOM Focuser Driver for Acme.*, Check Conformance and verify that no errors, warnings or issues are found and the Focuser driver passes ASCOM validation!!
- 23) Run the Windows uninstall tool to uninstall ASCOM Acme Focuser Driver 1.2
- 24) Verify the following files have been removed from:
 - C:\Program Files (x86)\Common Files\ASCOM\Focuser
 - ASCOM.Acme.Focuser.dll
 - ReadMe.htm
- 25) Verify the following folder (and its files) has been removed from:
 - C:\Program Files (x86)\Common Files\ASCOM\Uninstall\Focuser
 - Acme

At this point, the Acme Focuser should no longer be available in **Conform**'s Select Driver.

Note: If the driver was installed on a 64-bit O.S., after the uninstall, some of the registry entries associated with the 64-bit install still remain in the registry. This is a known issue!

(Work-around: In the Inno Setup script, in the [UninstallRun] section, after the "{dotnet4032}\regasm.exe" line, add a "{dotnet4064}\regasm.exe" line, copied from the [Run] section, to re-register the 64-bit driver immediately before unregistering it.)