

ASCOM C# LocalServer Inno Setup Checklist

The following is a checklist and an annotated [walk-through](#) example of generating a Windows install .EXE using the example of generating an ASCOM C# LocalServer for a fictitious company/product called Acme serving an ASCOM Focuser driver and a FilterWheel driver. The end result is a working Windows install .EXE of a LocalServer skeleton framework with a tested "working", "non-functional" local server serving two ASCOM drivers.

- - "working" means the drivers pass the Conformance Checker tool
- - "non-functional" means they control 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
<input type="checkbox"/> 1) Run the ASCOM <i>Driver Install Script Generator</i>	SetupScreen.png
<input type="checkbox"/> 2) Select Driver Information:➤Technology: .NET local server (exe)	
<input type="checkbox"/> 3) Set Driver Information:➤Short Name: Acme	
<input type="checkbox"/> 4) Select Driver Information:➤Type: Focuser (This doesn't really account for a multiple driver LocalServer!!!)	
<input type="checkbox"/> 5) Set Driver Information:➤Version: 1.2	
<input type="checkbox"/> 6) Browse to and select Server Source Files:➤Source Folder: ...\CSharp Projects\ASCOM\Acme\Server	
<input type="checkbox"/> 7) Browse to and select Server's Source Files:➤Main Driver File: ASCOM.Acme.Server.exe	
<input type="checkbox"/> 8) Browse to and select Server's Source Files:➤ReadMe File: ReadMe.htm	
<input type="checkbox"/> 9) Driver Developer:➤Name: XYZ	
<input type="checkbox"/> 10) Driver Developer:➤Email: xyx@xyz.com	LocalServer.png
<input type="checkbox"/> 11) Save	

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

- ☐ 12) In Inno Script Studio, change the [Setup]AppName to
"ASCOM Acme Focuser & FilterWheel Drivers Server"
- ☐ 13) In Inno Script Studio, change the [Setup]AppVerName to
"ASCOM Acme FocuserFilterWheel Driver 1.2"
- ☐ 14) In Inno Script Studio, change the [Setup]AppSupportURL to
"http://groups.yahoo.com/group/ASCOM-Talk/"
- ☐ 15) In Inno Script Studio, change the [Setup]DefaultDirName to
"{cf}\ASCOM\Acme\FocuserFilterWheel"
- ☐ 16) In Inno Script Studio, change the [Setup]OutputBaseFilename to
"Acme FocuserFilterWheel Setup"
- ☐ 17) In Inno Script Studio, change the [Setup]UninstallFilesDir to
"{cf}\ASCOM\Uninstall\Acme\FocuserFilterWheel"
- ☐ 18) In Inno Script Studio, replace the contents of the [Dirs] section with:
Name: "{cf}\ASCOM\Uninstall\Acme"; Flags: uninstalalwaysuninstall
Name: "{cf}\ASCOM\Uninstall\Acme\FocuserFilterWheel"

- ☐ 19) In Inno Script Studio, replace the contents of the [Files] section with:


```
Source: ".\bin\Debug\ASCOM.Acme.Server.exe"; DestDir: "{app}"
Source: ".\bin\Debug\ASCOM.Acme.Focuser.dll"; DestDir: "{app}"
Source: ".\bin\Debug\ASCOM.Acme.FilterWheel.dll"; DestDir: "{app}"
Source: ".\ReadMe.htm"; DestDir: "{app}"; Flags: isreadme
```
- ☐ 20) Save any changes
- ☐ 21) Make sure solution is closed in the Visual Studio IDE and compile the Inno script with Project>Compile
- ☐ 22) Exit Inno Script Studio

The server setup EXE is now located in the Server project folder as: **Acme FocuserFilterWheel Setup.exe**

- ☐ 23) Run the setup's *Acme FocuserFilterWheel Setup.exe* to install the Acme Focuser & FilterWheel Server drivers [SetupWizard.png](#)
- ☐ 24) Verify the following folders and files are added in:
 - C:\Program Files (x86)\Common Files\ASCOM\Acme\FocuserFilterWheel
 - ASCOM.Acme.Focuser.dll
 - ASCOM.Acme.FilterWheel.dll
 - ASCOM.Acme.Server.exe
 - ReadMe.htm
- ☐ 25) Verify the following folder and files are added in:
 - C:\Program Files (x86)\Common Files\ASCOM\Uninstall\Acme\FocuserFilterWheel
 - unins000.dat
 - unins000.exe

At this point, the Acme Focuser and FilterWheel drivers should be available for use.

- ☐ 26) Run the 32-bit ASCOM **Conform** tool, choose the *Acme Focuser*, Check Conformance and verify that no errors, warnings or issues are found and the Focuser driver passes ASCOM validation!!
- ☐ 27) Run the 32-bit ASCOM **Conform** tool, choose the *Acme FilterWheel*, Check Conformance and verify that no errors, warnings or issues are found and the FilterWheel driver passes ASCOM validation!!
- ☐ 28) Run the 64-bit ASCOM **Conform** tool, choose the *Acme Focuser*, Check Conformance and verify that no errors, warnings or issues are found and the Focuser driver passes ASCOM validation!!
- ☐ 29) Run the 64-bit ASCOM **Conform** tool, choose the *Acme FilterWheel*, Check Conformance and verify that no errors, warnings or issues are found and the FilterWheel driver passes ASCOM validation!!
- ☐ 30) Run the Windows uninstall tool to uninstall *ASCOM Acme FocuserFilterWheel Driver 1.2*
- ☐ 31) Verify the following folder (and its files) has been removed from:
 - C:\Program Files (x86)\Common Files\ASCOM
 - Acme\FocuserFilterWheel
 - Acme
- ☐ 32) Verify the following folder (and its files) has been removed from:
 - C:\Program Files (x86)\Common Files\ASCOM\Uninstall
 - Acme\FocuserFilterWheel
 - Acme

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

ASCOM C# Drivers Inno Setup Walk-Through

- 1) Run the ASCOM Driver Install Script Generator

ASCOM Driver Installer Script Generator

Generate an Inno Setup script for installing an ASCOM driver.
You may need to adjust it for additional files to be installed.
Please do not change the graphics, we want the user experience when installing drivers to be consistent.
[Inno Setup downloads \(Unicode QuickStart Pack is recommended\)](#)

Driver Information:

Technology:

Friendly Name:

Short Name: (e.g., "OptecTCF")

Type: (required - primary interface)

Aux Type: (dual-interface driver)

Version: (e.g., "5.0.1")

Source Files:

Source Folder:

Main Driver File:

ReadMe File:

☐ Include option to install driver source code

Driver Developer:

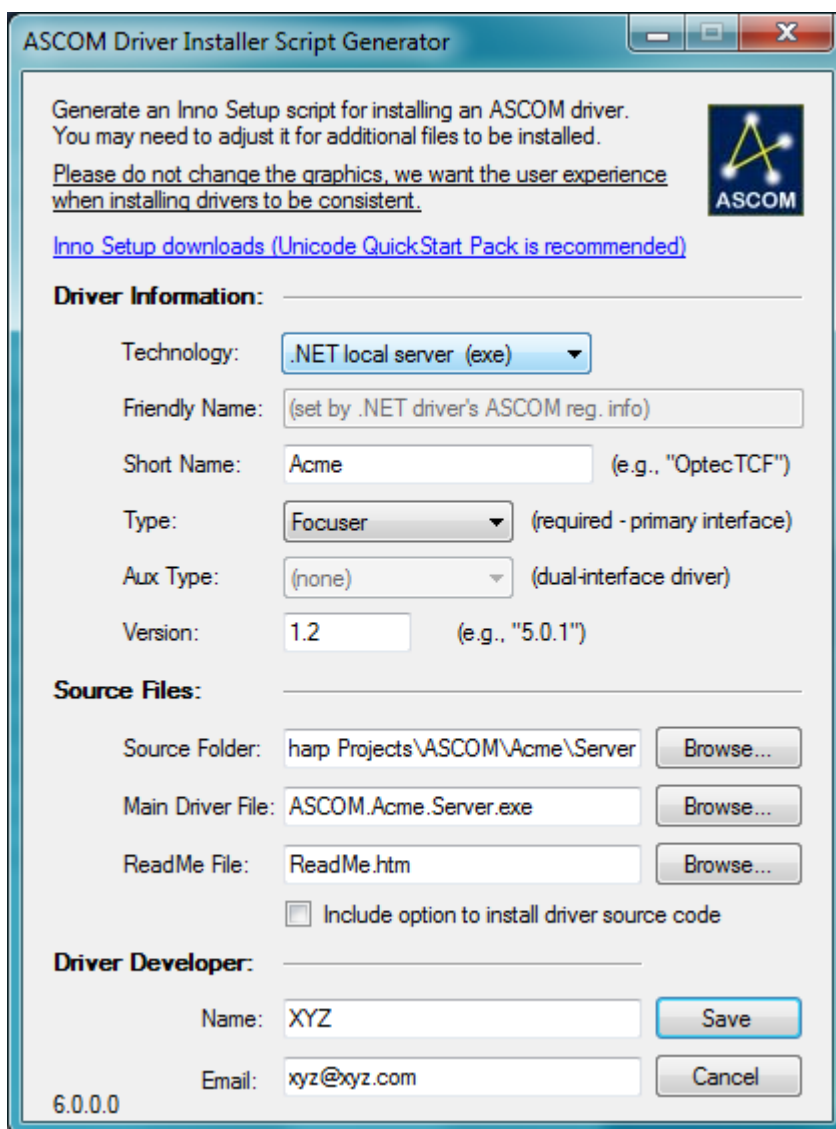
Name:

Email:

6.0.0.0

- 2) Select Driver Information: ➤ Technology: **.NET local server (exe)**
(LocalServers developed in Visual C# are .NET local server EXE's.)
- 3) Set Driver Information: ➤ Short Name: **Acme**
(This is the company or product name as shown in the install screens.)
- 4) Select Driver Information: ➤ Type: **Focuser**
(This doesn't really account for a multiple driver LocalServer!!!)
- 5) Set Driver Information: ➤ Version: **1.2**
- 6) Browse to and select Server Source Files: ➤ Source Folder: **...\\CSharp Projects\\ASCOM\\Acme\\Server**
(This is the base folder path of the server, read-me, and server source files.)
- 7) Browse to and select Server's Source Files: ➤ Main Driver File: **ASCOM.Acme.Server.exe**
(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 Server's Source Files: ➤ ReadMe File: **ReadMe.htm**
(This needs to be the release notes or local server/drivers user information file, not the ReadMe.htm that is part of the LocalServer 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.)



The screenshot shows the "ASCOM Driver Installer Script Generator" dialog box. It contains the following sections and fields:

- Header:** "Generate an Inno Setup script for installing an ASCOM driver. You may need to adjust it for additional files to be installed." and "Please do not change the graphics, we want the user experience when installing drivers to be consistent." with a link to "Inno Setup downloads (Unicode QuickStart Pack is recommended)".
- Driver Information:**
 - Technology: .NET local server (exe)
 - Friendly Name: (set by .NET driver's ASCOM reg. info)
 - Short Name: Acme (e.g., "OptecTCF")
 - Type: Focuser (required - primary interface)
 - Aux Type: (none) (dual-interface driver)
 - Version: 1.2 (e.g., "5.0.1")
- Source Files:**
 - Source Folder: harp Projects\ASCOM\Acme\Server (Browse...)
 - Main Driver File: ASCOM.Acme.Server.exe (Browse...)
 - ReadMe File: ReadMe.htm (Browse...)
 - ☐ Include option to install driver source code
- Driver Developer:**
 - Name: XYZ (Save)
 - Email: xyx@xyz.com (Cancel)
- Footer:** 6.0.0.0

- 11) Save

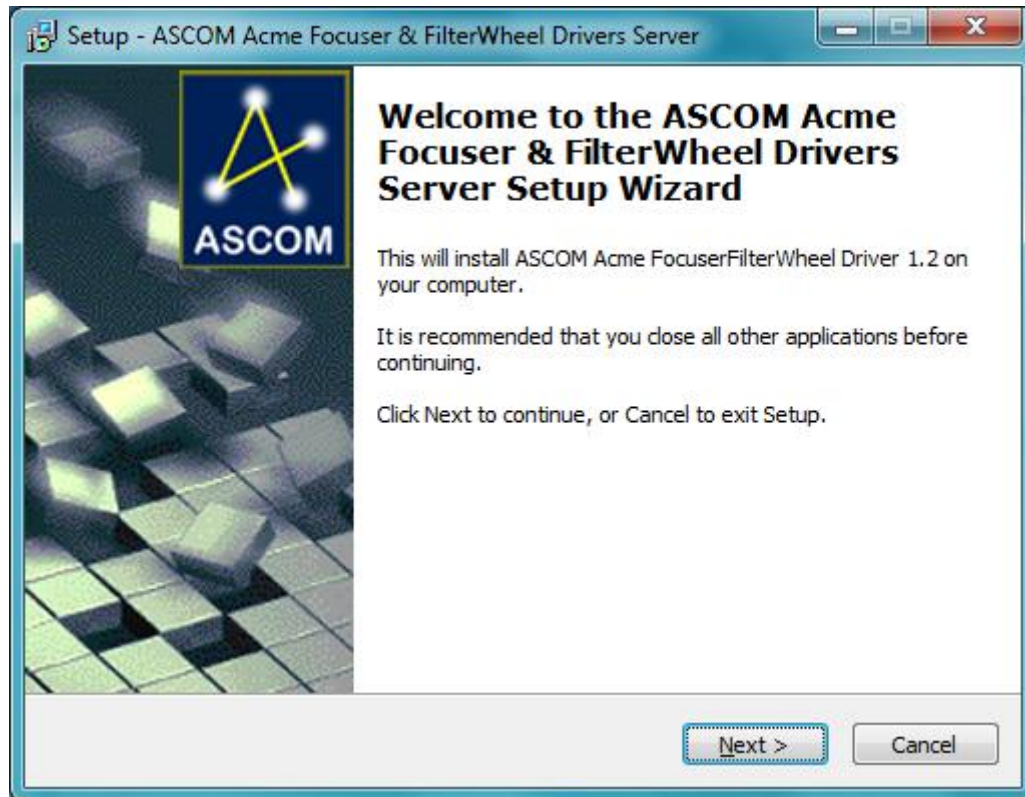
The script generator saves the information in an Inno script in the Server's project folder and opens Inno Script Studio.

- 12) In Inno Script Studio, change the [Setup]AppName to **"ASCOM Acme Focuser & FilterWheel Drivers Server"**
(This is the company and product name as shown in the install screens.)

- 13) In Inno Script Studio, change the [Setup]AppVerName to "**ASCOM Acme FocuserFilterWheel Driver 1.2**"
(This is the product name as shown in the Windows *Add/Remove Programs* tool.)
- 14) 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.)
- 15) In Inno Script Studio, change the [Setup]DefaultDirName to "**{cf}\ASCOM\Acme\FocuserFilterWheel**"
(This is the folder path where the LocalServer and Drivers will be placed during the install.)
- 16) In Inno Script Studio, change the [Setup]OutputBaseFilename to "**Acme FocuserFilterWheel Setup**"
(This will be the file name of the generated Windows install .EXE.)
- 17) In Inno Script Studio, change the [Setup]UninstallFilesDir to
"{cf}\ASCOM\Uninstall\Acme\FocuserFilterWheel"
(This is the folder path where the uninstall information will be placed during the install.)
- 18) In Inno Script Studio, replace the contents of the [Dirs] section with:
Name: "{cf}\ASCOM\Uninstall\Acme"; Flags: uninsalwaysuninstall
Name: "{cf}\ASCOM\Uninstall\Acme\FocuserFilterWheel"
(These are the folders added on install and removed on uninstall.)
- 19) In Inno Script Studio, replace the contents of the [Files] section with:
Source: ".\bin\Debug\ASCOM.Acme.Server.exe"; DestDir: "{app}"
Source: ".\bin\Debug\ASCOM.Acme.Focuser.dll"; DestDir: "{app}"
Source: ".\bin\Debug\ASCOM.Acme.FilterWheel.dll"; DestDir: "{app}"
Source: ".\ReadMe.htm"; DestDir: "{app}"; Flags: isreadme
(These are the files added on install and removed on uninstall.)
(For the Release build configuration, the DLL and EXE paths will probably include "Release" instead of "Debug".)
- 20) Save any changes
- 21) Make sure solution is closed in the Visual Studio IDE and compile the Inno script with Project>Compile
- 22) Exit Inno Script Studio

The server setup EXE is now located in the Server project folder as: **Acme FocuserFilterWheel Setup.exe**

23) Run the setup's *Acme FocuserFilterWheel Setup.exe* to install the Acme Focuser & FilterWheel Server drivers



24) Verify the following folders and files are added in:

C:\Program Files (x86)\Common Files\ASCOM\Acme\FocuserFilterWheel
- ASCOM.Acme.Focuser.dll
- ASCOM.Acme.FilterWheel.dll
- ASCOM.Acme.Server.exe
- ReadMe.htm

25) Verify the following folder and files are added in:

C:\Program Files (x86)\Common Files\ASCOM\Uninstall\Acme\FocuserFilterWheel
- unins000.dat
- unins000.exe

At this point, the Acme Focuser and FilterWheel drivers should be available for use.

26) Run the 32-bit ASCOM **Conform** tool, choose the *Acme Focuser*, Check Conformance and verify that no errors, warnings or issues are found and the Focuser driver passes ASCOM validation!!

27) Run the 32-bit ASCOM **Conform** tool, choose the *Acme FilterWheel*, Check Conformance and verify that no errors, warnings or issues are found and the FilterWheel driver passes ASCOM validation!!

28) Run the 64-bit ASCOM **Conform** tool, choose the *Acme Focuser*, Check Conformance and verify that no errors, warnings or issues are found and the Focuser driver passes ASCOM validation!!

29) Run the 64-bit ASCOM **Conform** tool, choose the *Acme FilterWheel*, Check Conformance and verify that no errors, warnings or issues are found and the FilterWheel driver passes ASCOM validation!!

30) Run the Windows uninstall tool to uninstall *ASCOM Acme FocuserFilterWheel Driver 1.2*

31) Verify the following folder (and its files) has been removed from:

C:\Program Files (x86)\Common Files\ASCOM

- Acme\FocuserFilterWheel
- Acme

32) Verify the following folder (and its files) has been removed from:

C:\Program Files (x86)\Common Files\ASCOM\Uninstall

- Acme\FocuserFilterWheel
- Acme

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