

Installing Revit API addins 2014 – RubyRevitShell

IMPORTANT! The .addin files for Revit 2014 add-ins are typically installed into the “addins directory” at:

```
C:\Users\holmesa\AppData\Roaming\Autodesk\Revit\Addins\2014
```

But they refer to files that are located in a directory named inside the .addin file, something like this, but with different gobbledygook (5BX5CW6.839\MECDKOQ0.4VL) on every different PC (and yes, the “..” in the middle of the path is how the path name looks):

```
C:\Users\holmesa\AppData\Local\Apps\2.0\5BX5CW6.839\MECDKOQ0.4VL\revi
..tion_12c9d3ec797ace7a_0001.0003_69696c86a26006fc
```

RevitRubyShell

1. Get it from somewhere like here: <http://www.hclausen.net/RevitRubyShell/setup.exe>
2. Run the installer.
3. It will install some files.
4. It won't show as working unless you're inside an open project file.
5. This failed on my PC because Revit was finding Microsoft.Scripting from the GAC instead of from the RevitRubyShell add-in dir, and so wasn't able to load the IronRuby.dll there. Successful installs on other PCs did not have Microsoft.Scripting in the GAC. Discovered using FUSLOGVW.exe from the C:\Program Files (x86)\Microsoft SDKs\Windows\v8.0A\bin\NETFX 4.0 Tools directory and searching the GAC with gacutil.exe from the same directory. Solved this by adding the IronRuby.DLL and IronRuby.Libraries.DLL in the RevitRubyShell add-in dir to the GAC using gacutil -i *dllname*, however, I then got this error: <http://ironpython.codeplex.com/workitem/32936>, which I then tracked down (from Windawesome forum <http://windawesome.codeplex.com/workitem/9220>) to IronPython being installed, which installs Microsoft.Scripting 1.1.0.21, not the 1.1.0.20 that is elsewhere (GAC, RevitRubyShell, SDA/AddIns). So ultimately, re-removing IronRuby DLLs from GAC and uninstalling IronPython 2.7.3 fixed the problem. Yuck!
BTW, the Fusion FUSLOGVW log below shows the how the GAC issues look. RevitRubyShell loads Microsoft.Scripting from the GAC:

```
The operation was successful.
```

```
Bind result: hr = 0x0. The operation completed successfully.
```

```
Assembly manager loaded from: C:\Windows\Microsoft.NET\Framework64\v4.0.30319\clr.dll
```

```
Running under executable C:\Program Files\Autodesk\Revit 2014\Revit.exe
```

```
--- A detailed error log follows.
```

```
=== Pre-bind state information ===
```

```
LOG: User = OPXDC\holmesa
```

```
LOG: DisplayName = Microsoft.Scripting, Version=1.1.0.20, Culture=neutral,
PublicKeyToken=7f709c5b713576e1
(Fully-specified)
```

```
LOG: Appbase = file:///C:/Program Files/Autodesk/Revit 2014/
```

```
LOG: Initial PrivatePath = NULL
```

```
LOG: Dynamic Base = NULL
LOG: Cache Base = NULL
LOG: AppName = Revit.exe
Calling assembly : RevitRubyShell, Version=1.4.4897.39560, Culture=neutral, PublicKeyToken=null.
===
LOG: This bind starts in LoadFrom load context.
WRN: Native image will not be probed in LoadFrom context. Native image will only be probed in
default load context, like with Assembly.Load().
LOG: Using application configuration file: C:\Program Files\Autodesk\Revit 2014\Revit.exe.Config
LOG: Using host configuration file:
LOG: Using machine configuration file from
C:\Windows\Microsoft.NET\Framework64\v4.0.30319\config\machine.config.
LOG: Post-policy reference: Microsoft.Scripting, Version=1.1.0.20, Culture=neutral,
PublicKeyToken=7f709c5b713576e1
LOG: Found assembly by looking in the GAC
LOG: Switch from LoadFrom context to default context.
LOG: Binding succeeds. Returns assembly from
C:\Windows\Microsoft.Net\assembly\GAC_MSIL\Microsoft.Scripting\v4.0_1.1.0.20__7f709c5b713576e1\Mi
crosoft.Scripting.dll.
LOG: Assembly is loaded in default load context.
```

But loads IronRuby from the local RevitRubyShell add-in dir:

```
=== Pre-bind state information ===
LOG: User = OPXDC\holmesa
LOG: DisplayName = IronRuby, Version=1.1.3.0, Culture=neutral, PublicKeyToken=7f709c5b713576e1
(Fully-specified)
LOG: Appbase = file:///C:/Program Files/Autodesk/Revit 2014/
LOG: Initial PrivatePath = NULL
LOG: Dynamic Base = NULL
LOG: Cache Base = NULL
LOG: AppName = Revit.exe
Calling assembly : RevitRubyShell, Version=1.4.4897.39560, Culture=neutral, PublicKeyToken=null.
===
LOG: This bind starts in LoadFrom load context.
WRN: Native image will not be probed in LoadFrom context. Native image will only be probed in
default load context, like with Assembly.Load().
LOG: Using application configuration file: C:\Program Files\Autodesk\Revit 2014\Revit.exe.Config
LOG: Using host configuration file:
LOG: Using machine configuration file from
C:\Windows\Microsoft.NET\Framework64\v4.0.30319\config\machine.config.
LOG: Post-policy reference: IronRuby, Version=1.1.3.0, Culture=neutral,
PublicKeyToken=7f709c5b713576e1
LOG: GAC Lookup was unsuccessful.
LOG: Attempting download of new URL file:///C:/Program Files/Autodesk/Revit 2014/IronRuby.DLL.
LOG: Attempting download of new URL file:///C:/Program Files/Autodesk/Revit
2014/IronRuby/IronRuby.DLL.
LOG: Attempting download of new URL file:///C:/Program Files/Autodesk/Revit
2014/SDA/bin/IronRuby.DLL.
LOG: Attempting download of new URL file:///C:/Program Files/Autodesk/Revit
2014/SDA/bin/IronRuby/IronRuby.DLL.
LOG: Attempting download of new URL file:///C:/Program Files/Autodesk/Revit 2014/IronRuby.EXE.
LOG: Attempting download of new URL file:///C:/Program Files/Autodesk/Revit
2014/IronRuby/IronRuby.EXE.
LOG: Attempting download of new URL file:///C:/Program Files/Autodesk/Revit
2014/SDA/bin/IronRuby.EXE.
LOG: Attempting download of new URL file:///C:/Program Files/Autodesk/Revit
2014/SDA/bin/IronRuby/IronRuby.EXE.
LOG: Attempting download of new URL
file:///C:/Users/holmesa/AppData/Local/Apps/2.0/5BX5CWX6.839/MECDKOQ0.4VL/revi..tion_12c9d3ec797a
ce7a_0001.0003_69696c86a26006fc/IronRuby.DLL.
LOG: Assembly download was successful. Attempting setup of file:
C:\Users\holmesa\AppData\Local\Apps\2.0\5BX5CWX6.839\MECDKOQ0.4VL\revi..tion_12c9d3ec797ace7a_000
1.0003_69696c86a26006fc\IronRuby.dll
LOG: Entering run-from-source setup phase.
LOG: Assembly Name is: IronRuby, Version=1.1.3.0, Culture=neutral,
PublicKeyToken=7f709c5b713576e1
LOG: Where-ref bind Codebase does not match what is found in default context. Keep the result in
LoadFrom context.
```

```
LOG: Binding succeeds. Returns assembly from
C:\Users\holmesa\AppData\Local\Apps\2.0\5BX5CWX6.839\MECDK0Q0.4VL\revi..tion_12c9d3ec797ace7a_000
1.0003_69696c86a26006fc\IronRuby.dll.
LOG: Assembly is loaded in LoadFrom load context.
```

And Microsoft.Scripting, found in the GAC, tries to load IronRuby from the GAC, but it isn't there:

```
The operation failed.
Bind result: hr = 0x80070002. The system cannot find the file specified.
```

```
Assembly manager loaded from: C:\Windows\Microsoft.NET\Framework64\v4.0.30319\clr.dll
Running under executable C:\Program Files\Autodesk\Revit 2014\Revit.exe
--- A detailed error log follows.
```

```
=== Pre-bind state information ===
```

```
LOG: User = OPXDC\holmesa
```

```
LOG: DisplayName = IronRuby, Version=1.1.3.0, Culture=neutral, PublicKeyToken=7f709c5b713576e1
(Fully-specified)
```

```
LOG: Appbase = file:///C:/Program Files/Autodesk/Revit 2014/
```

```
LOG: Initial PrivatePath = NULL
```

```
LOG: Dynamic Base = NULL
```

```
LOG: Cache Base = NULL
```

```
LOG: AppName = Revit.exe
```

```
Calling assembly : Microsoft.Scripting, Version=1.1.0.20, Culture=neutral,
PublicKeyToken=7f709c5b713576e1.
```

```
===
```

```
LOG: This bind starts in default load context.
```

```
LOG: Using application configuration file: C:\Program Files\Autodesk\Revit 2014\Revit.exe.Config
```

```
LOG: Using host configuration file:
```

```
LOG: Using machine configuration file from
```

```
C:\Windows\Microsoft.NET\Framework64\v4.0.30319\config\machine.config.
```

```
LOG: GAC Lookup was unsuccessful.
```

```
LOG: Attempting download of new URL file:///C:/Program Files/Autodesk/Revit 2014/IronRuby.DLL.
```

```
LOG: Attempting download of new URL file:///C:/Program Files/Autodesk/Revit
```

```
2014/IronRuby/IronRuby.DLL.
```

```
LOG: Attempting download of new URL file:///C:/Program Files/Autodesk/Revit
```

```
2014/SDA/bin/IronRuby.DLL.
```

```
LOG: Attempting download of new URL file:///C:/Program Files/Autodesk/Revit
```

```
2014/SDA/bin/IronRuby/IronRuby.DLL.
```

```
LOG: Attempting download of new URL file:///C:/Program Files/Autodesk/Revit 2014/IronRuby.EXE.
```

```
LOG: Attempting download of new URL file:///C:/Program Files/Autodesk/Revit
```

```
2014/IronRuby/IronRuby.EXE.
```

```
LOG: Attempting download of new URL file:///C:/Program Files/Autodesk/Revit
```

```
2014/SDA/bin/IronRuby.EXE.
```

```
LOG: Attempting download of new URL file:///C:/Program Files/Autodesk/Revit
```

```
2014/SDA/bin/IronRuby/IronRuby.EXE.
```

```
LOG: All probing URLs attempted and failed.
```