

Getting the code

There are two ways to get the source code for the IFC exporter. The best way is to download it via the source control system on SourceForge. To do this, you'll need to do the following steps:

1. Get a Subversion (SVN) client.

The easiest way to do this is to get [TortoiseSVN](#) from SourceForge. You can, however, use any SVN client you want. You'll need to install this client before you continue to the next step. The rest of the steps assume you are using [TortoiseSVN](#); if not, there are similar steps that will be needed for your particular client.

2. Create a directory for your source code.

For this example below, I've created a directory called "TestSVN" on my desktop. The location of the directory is completely up to you.

3. Checkout the code.

Right-click on the directory created above, and you will get an item "SVN Checkout..." on the context-sensitive menu. Select that item, and you will get the window in Table 1 below.

Click "OK" to download the code.

Note that the above code is for the 2014 IFC exporter. You can also modify the 2013 exporter code, or the UI for 2013 or 2014. The directories for each are:

- 2014IFCExporterUI: Alternate UI for 2014.
- BIM.IFC: 2013 exporter
- IFCExporterUI: Alternate UI for 2013
- IFCExtension: 2013 bridge between alternate UI and exporter to allow setting extra options, used by both the 2013 exporter and the 2013 UI projects.

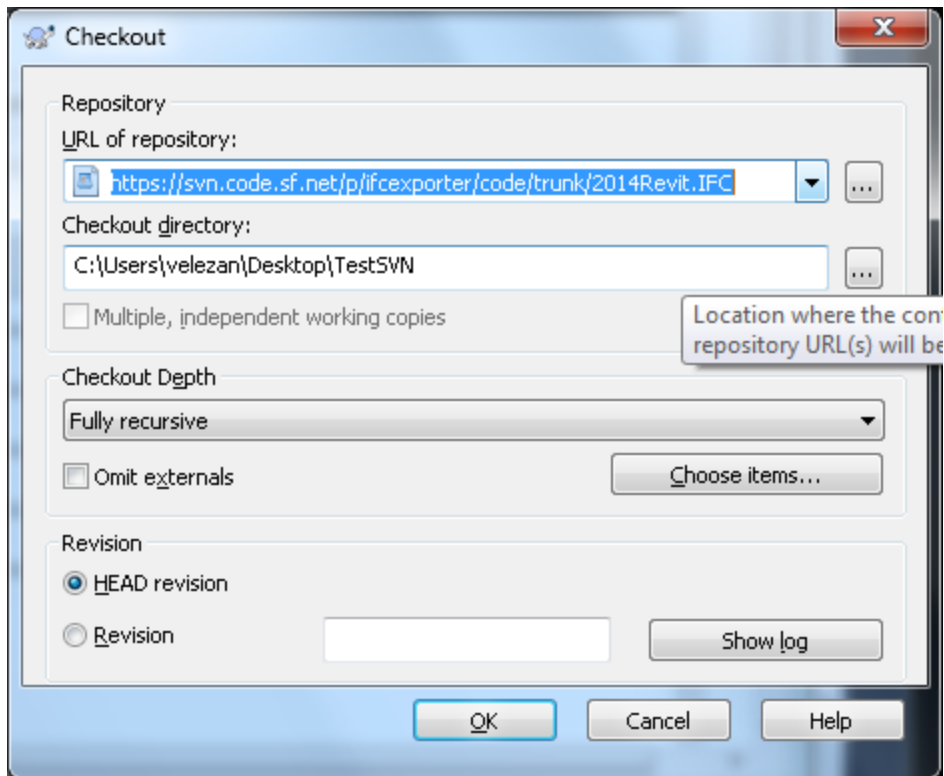


Table 1. SVN Checkout window.

4. Update the .props files.

There are three files that will need to be updated based on your specific installation of Revit. These are:

- Install/Modify Addin file.props
- Source/Revit.IFC.Common/Revit.IFC.Common.props
- Source/Revit.IFC.Export/Revit.IFC.Export.props

They will have corresponding files with names like: Revit.IFC.Common.props.template - copy this file and change its name to Revit.IFC.Common.props.

For Modify Addin file.props, simply delete the file and rename the corresponding template to Modify Addin file.props. For the other two files, open them in Notepad (or your favourite text editor), and find the two lines:

```
<!-- Change to your directory of Revit installation. -->
```

Below them, you will see something like:

```
<HintPath>C:\Program Files\Autodesk\Revit Architecture 2014\Program\RevitAPI.dll</HintPath>
```

Change that to the location of you Revit installation. After you have made these changes, delete the original .props file and rename the one you've just edited to .props.

5. Final clean up steps

There are two final minor steps required to build the solution. First, remove Revit.IFC.Export.sig from Revit.IFC Setup by right-clicking on the name in the Solution Explorer and choosing “Remove”, as seen in Table 2 below. This file is required for LT support, but customizing of the Open Source exporter for Revit LT by third parties is not currently allowed.

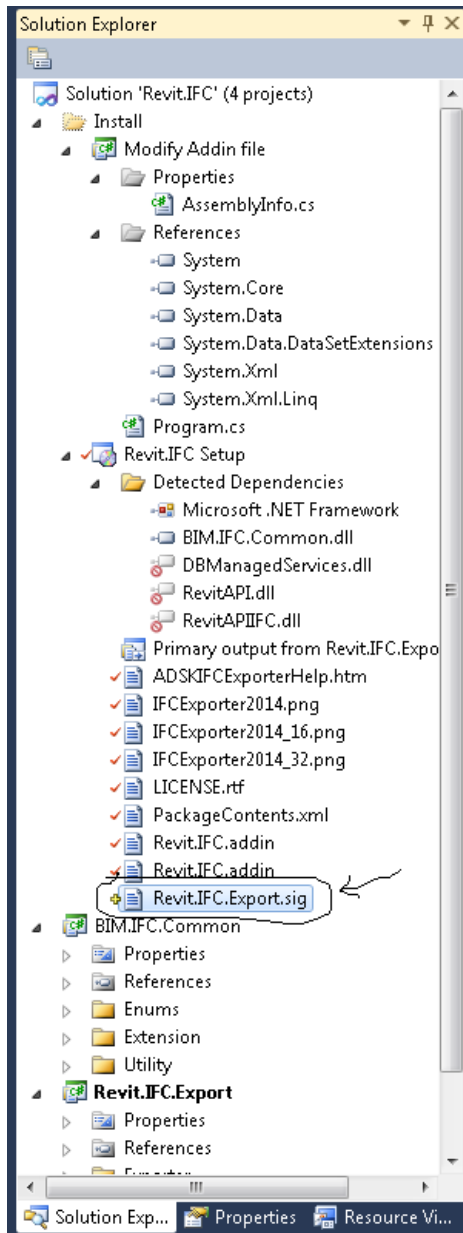


Table 2. Revit.IFC.Export.sig file.

Secondly, open Revit.IFC.Export.csproj in Notepad and delete:

```
<PropertyGroup>
```

```
<PostBuildEvent>call $(SolutionDir)SignFile.bat $(TargetPath)
```

```
$(SolutionDir)...\ThirdParty\RevitAPI\Identification\SignData\Release\SignData.exe $(TargetPath)
$(SolutionDir)...\ThirdParty\RevitAPI\Identification\pair.dat LT

perl $(SolutionDir)PostBuild.pl $(ProjectDir) $(TargetPath) $(Configuration) $(Platform)</PostBuildEvent>

</PropertyGroup>
```

Although the solution will build with those lines, it will generate unnecessary errors.

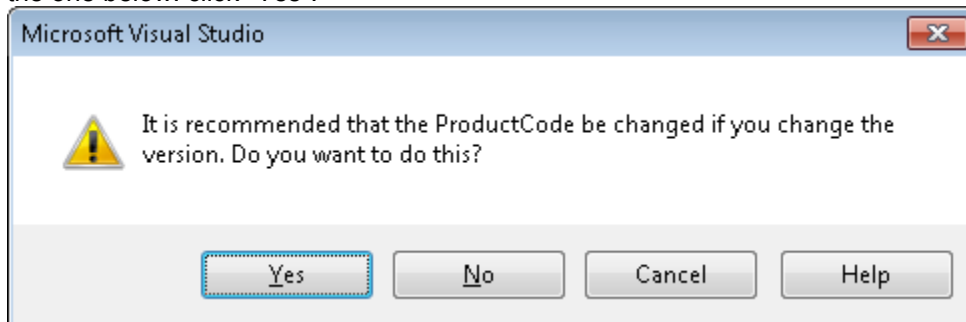
6. Build the solution

This should create the installer in either Install\Setup\Debug or Install\Setup\Release, depending on your settings. Note that you will then need to run the installer to update the export.

7. (Optional) Update the version

If you plan to work directly on the open source code, instead of creating a new exporter on top of it, you may want to increase the version number to convince the installer to overwrite your previous installed versions. To do this:

- Locate the three AssemblyInfo.cs files in the “Modify Addin file”, “BIM.IFC.Common” and “Revit.IFC.Export” projects.
- Update the lines below to your latest version. In general, the recommendation is to change the last two digits.
[assembly: AssemblyVersion("3.7.1.0")]
[assembly: AssemblyFileVersion("3.7.1.0")]
- Go to the “Properties” palette and update the “Version” property. You will get a property box like the one below: click “Yes”.



- Save all of the files, rebuild, and reinstall.