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| --- | --- |
| Author: | Liam Harries |
| File version | 1.4 |
| [LATEST VERSION](https://github.com/AdaptiveAds/AdaptiveAds_Testing/blob/master/AdaptiveAds_TestFramework/AdaptiveAds_TestFramework/Documentation/Sandcastle%20Installation%20and%20use%20guide.docx) | |

Sandcastle Installation and use guide

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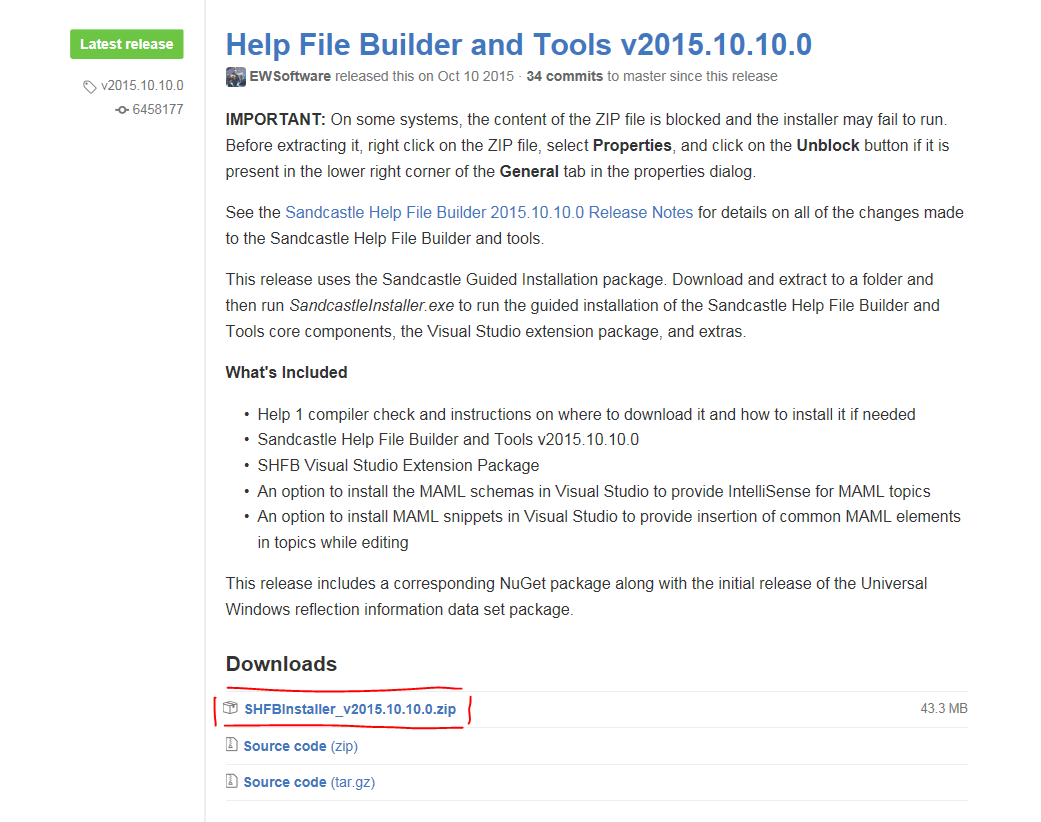
[Building documentation 22](#_Toc452079725)

# Installation

## Getting the resources

Visit the SHFB (sandcastle help file builder) installation page [here.](https://github.com/EWSoftware/SHFB/releases)

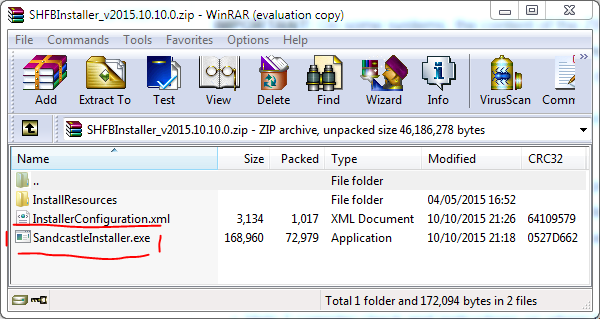
Select and download the SHFBinstaller for the latest release.



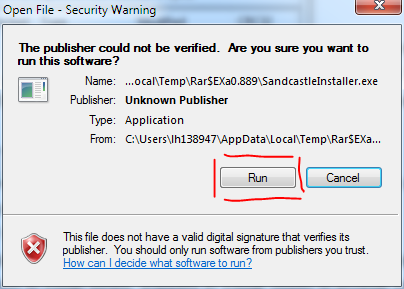
Save and then open the downloaded file.

## Running the installer

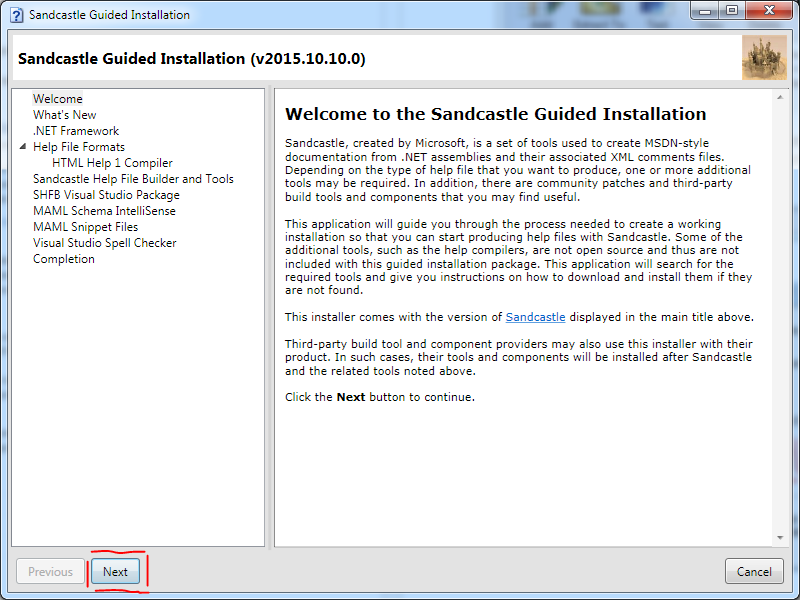
Select SandcastleInstaller.exe from the list



If you get a security warning hit Run.

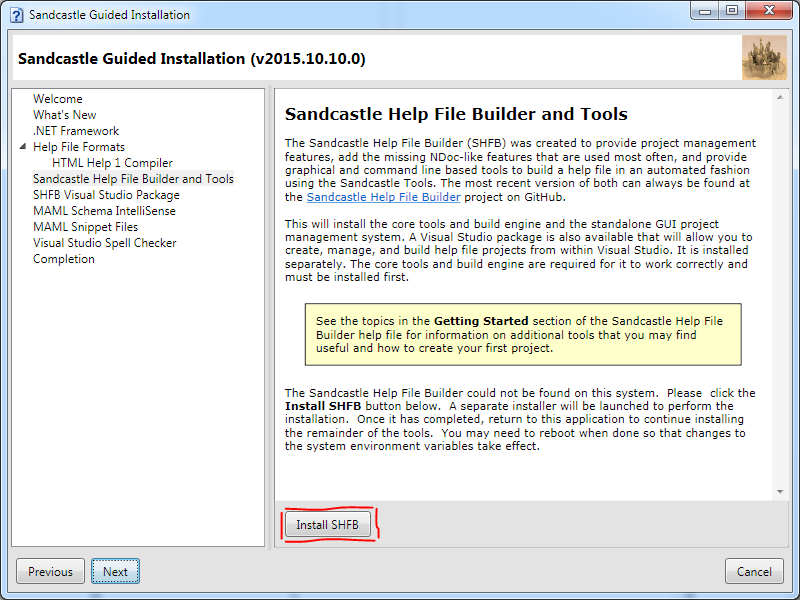


At the welcome page hit next on each page and install any additional software it may prompt you for.

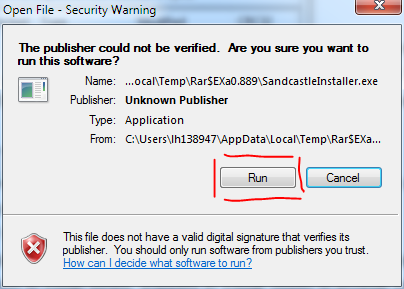


## Installing SHFB

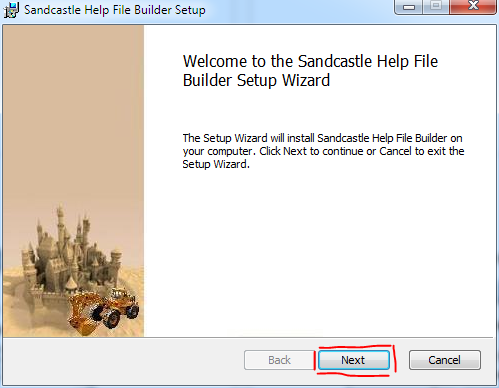
When you reach the “Sandcastle Help File Builder and Tools” page click on “Install SHFB”.



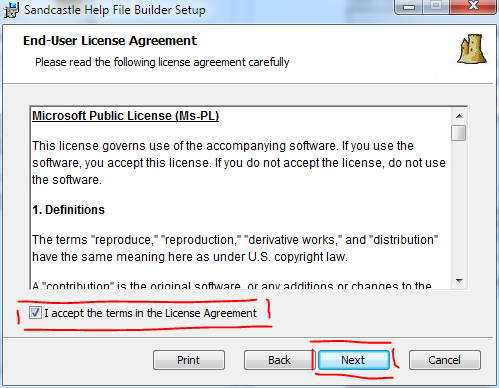
If prompted with a security warning hit run.



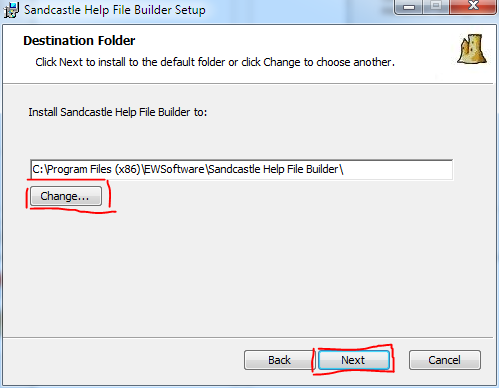
Hit next



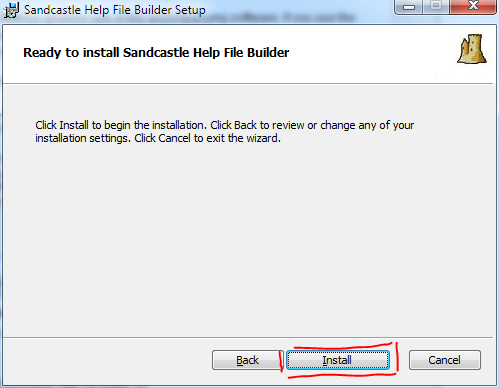
Read and accept the licence agreement



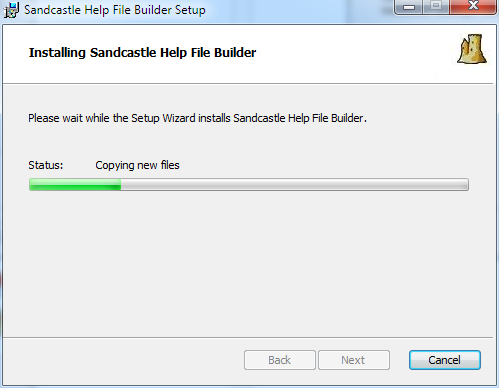
Specify the installation directory if you do not wish to use the default and hit next.



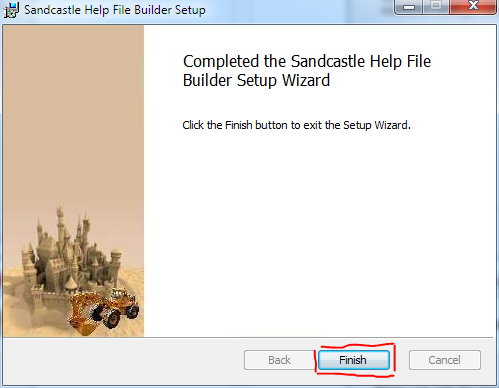
Click install.



Installation should take around 30s-2mins dependant on pc specs.

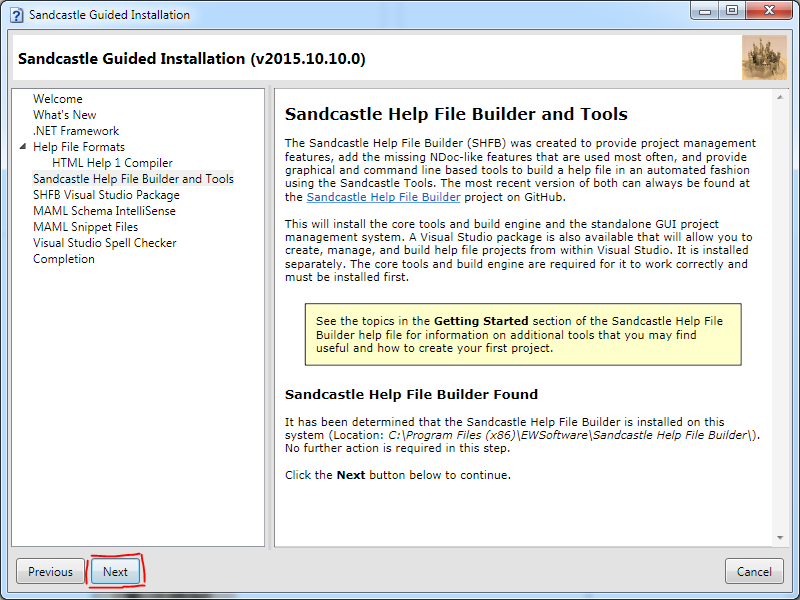


Click finish, SHFB is now installed

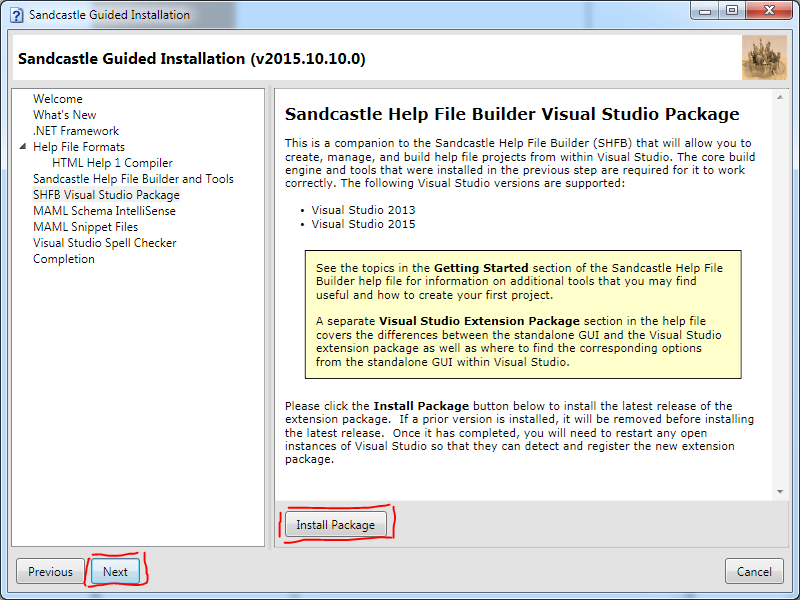


## Additional tools

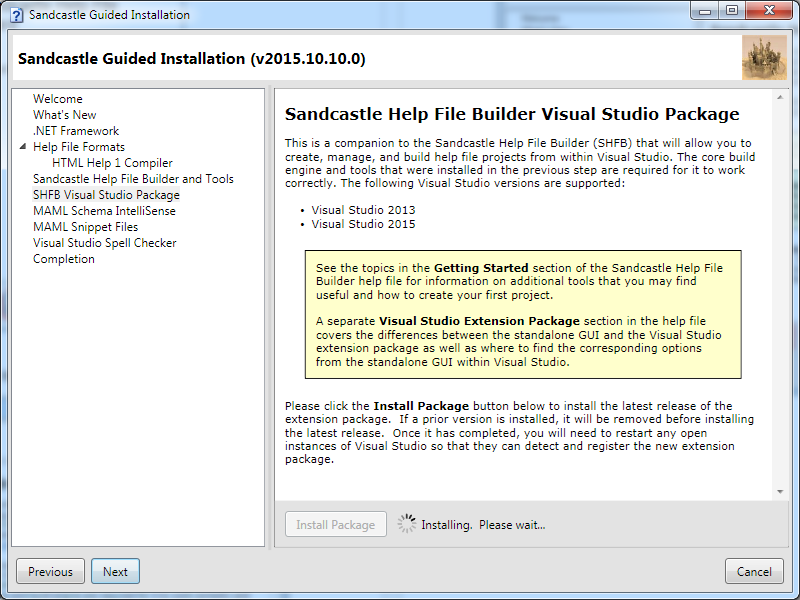
Go back to the guided installation if it does not open by itself and hit next.



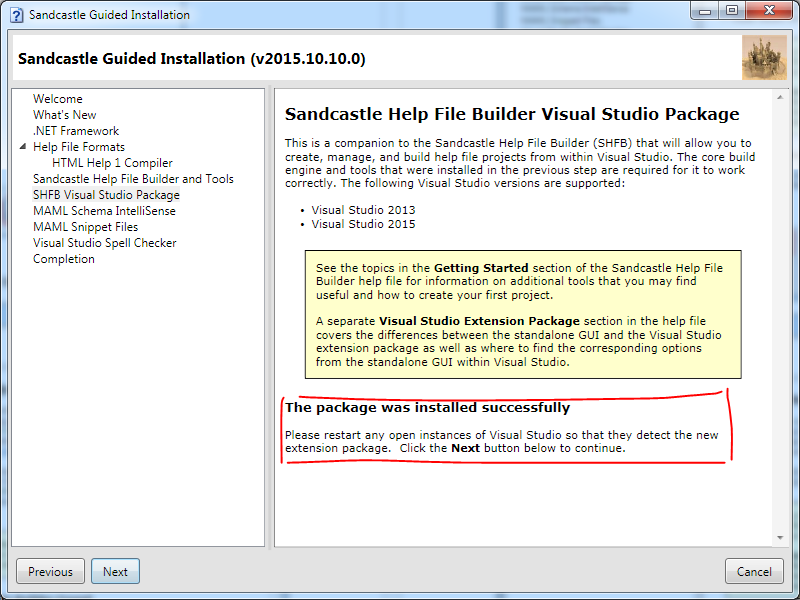
If using visual studio you can install packages to help with visual studio integration.



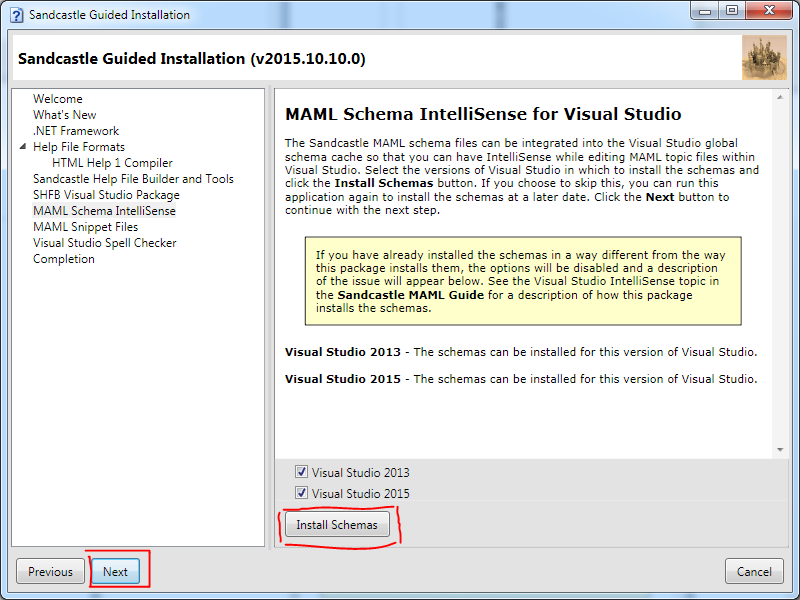
The installation should take 20-40 seconds.



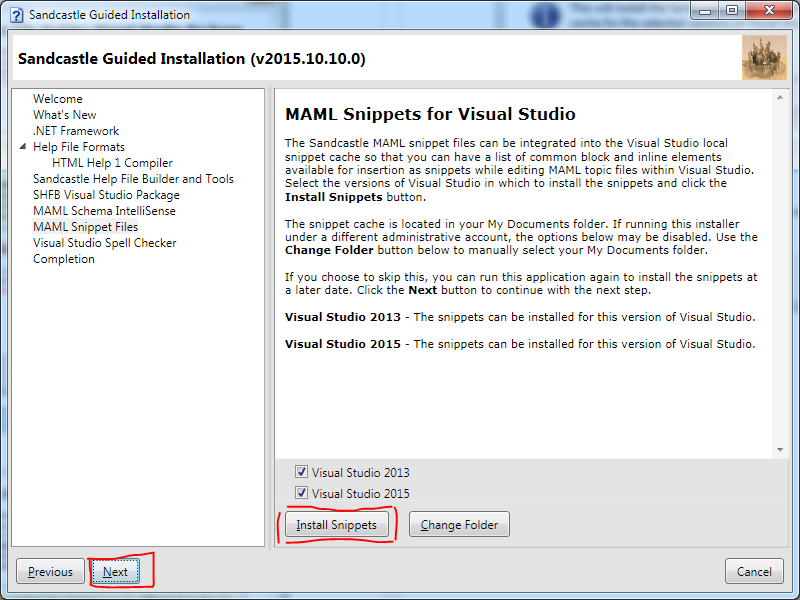
The page will notify you when successfully installed.



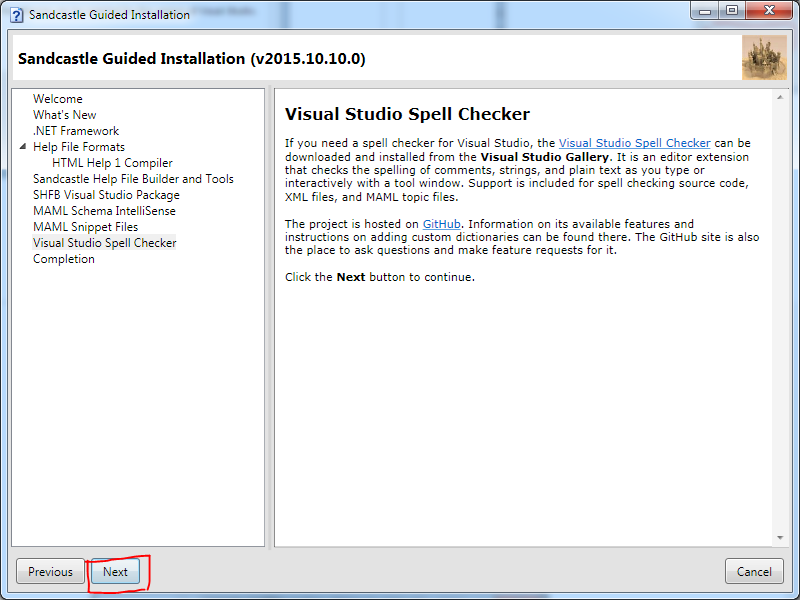
Installing intelligence tools for visual studio will give pointers to ensure code is fully covered by generated documentation. Click Install schemas, after installing hit next.



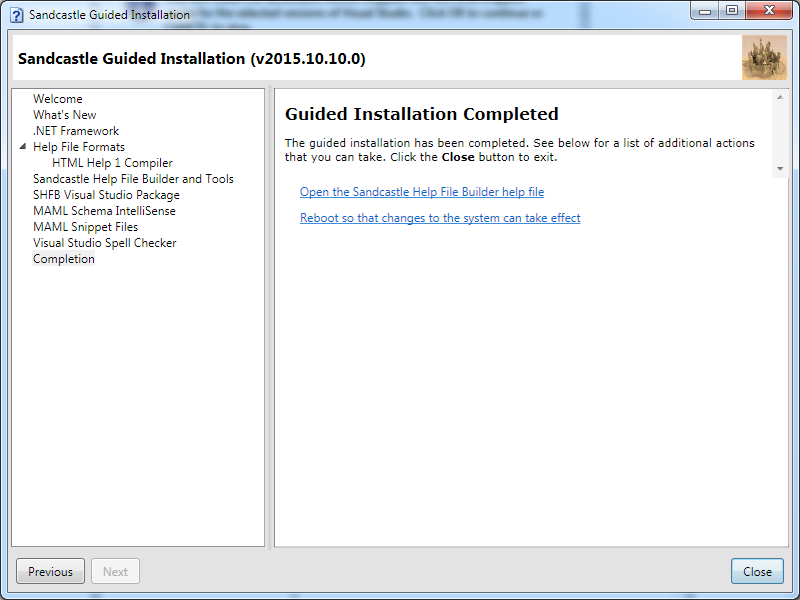
Installing snippets will enable code to have prebuilt documentation put into place to aid in documentation.



Click next.



Congratulations you are now ready to use SHFB.



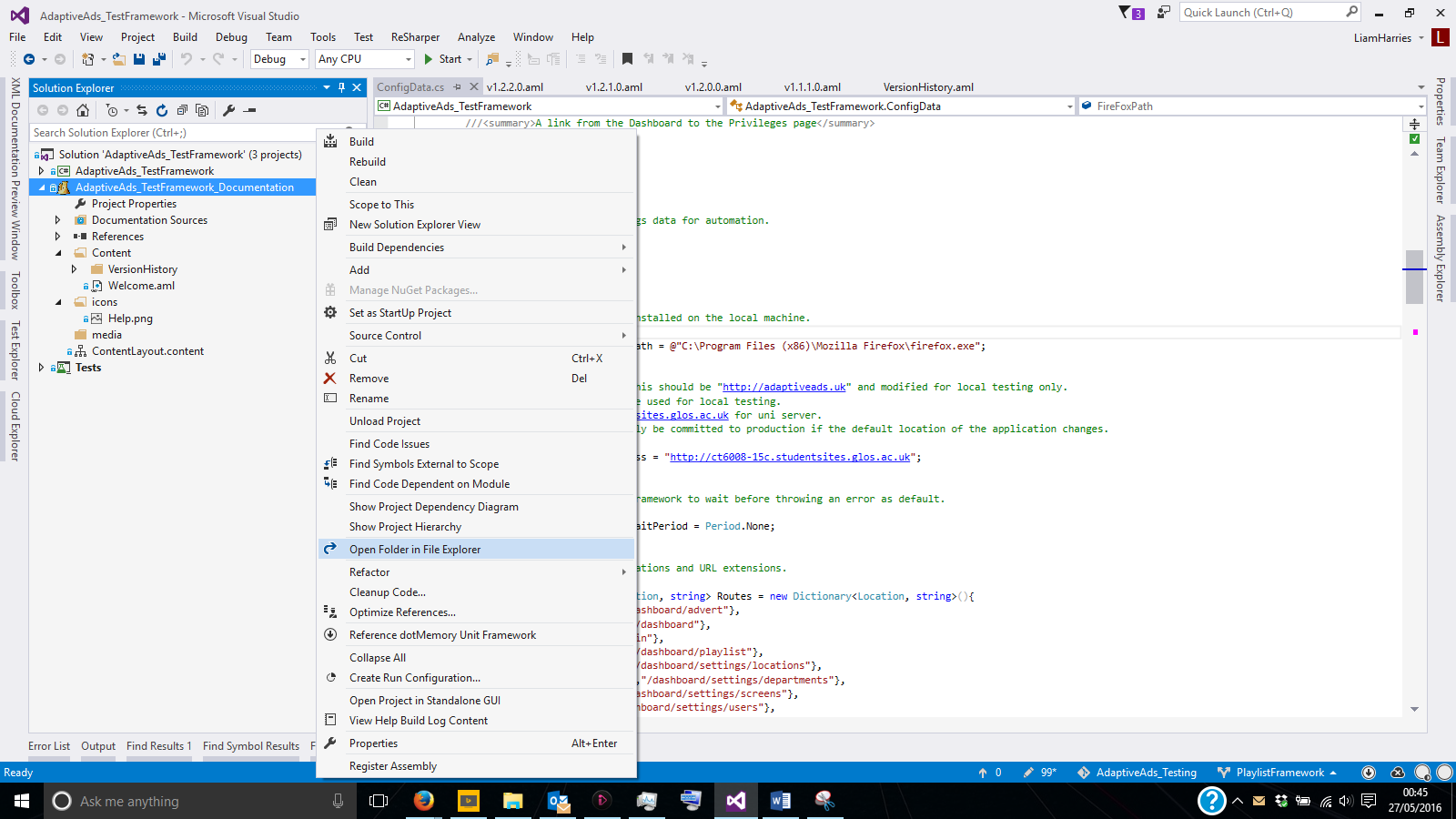
# Updating Adaptive Ads documentation

## Via Visual Studio

Updating via visual studio is the easiest and most reliable option however requires the plugin to be installed during the additional tools section of the SHFB installation.

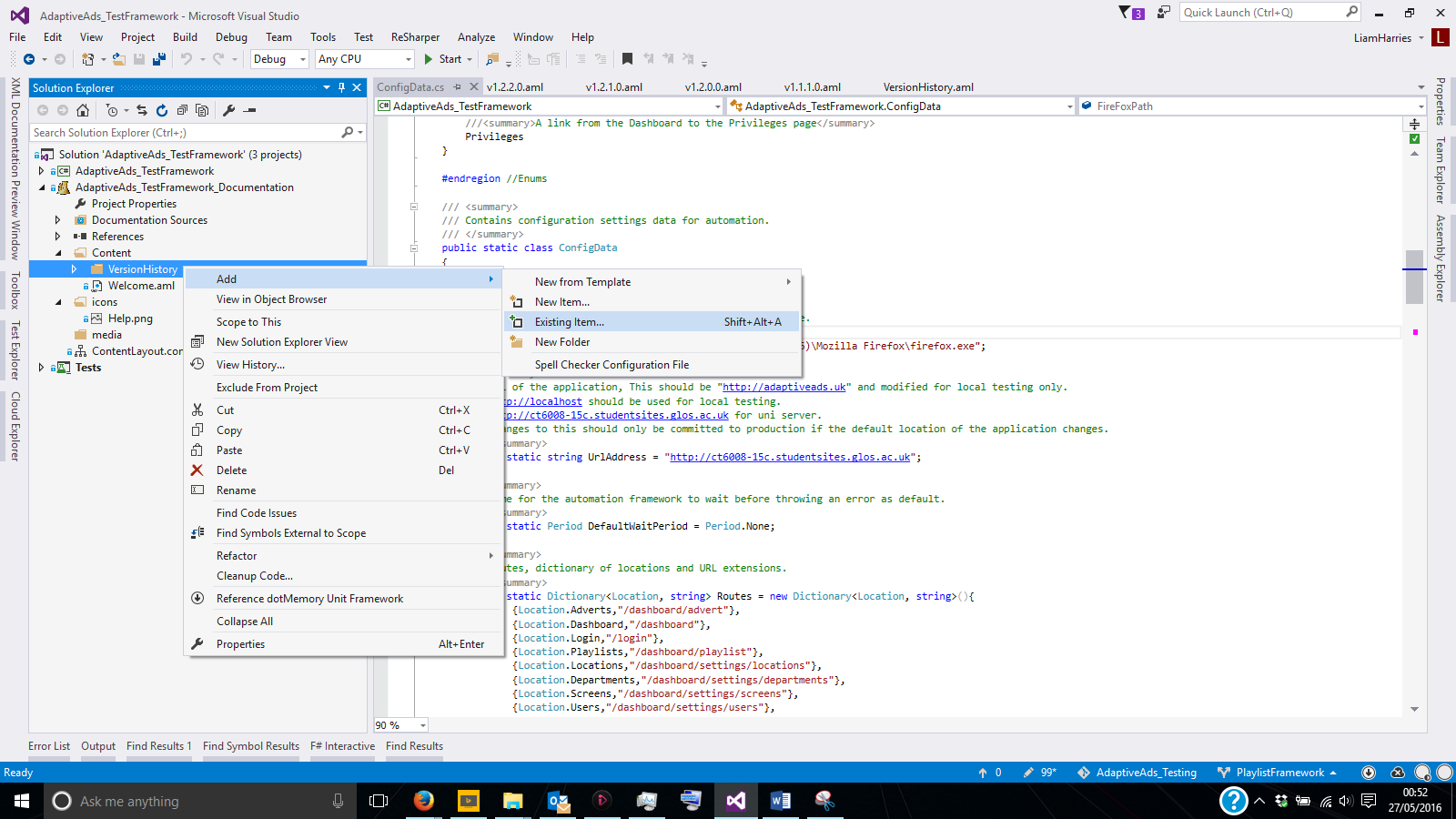
### Updating the version documents

Open the solution inside visual studio then inside the solution explorer right click the documentation project and select “Open Folder in File Explorer”.

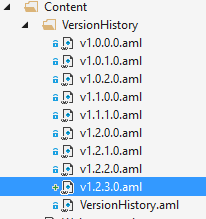


Once the folder opens navigate to Content 🡪 Version History. Once there make a copy of the latest version and rename it with the desired new version number. We will be updating to version 1.2.3.0 in this walkthrough.

Then go back to the solution explorer in visual studio, expand the content file then right click on the version history folder and select add 🡪 existing item.

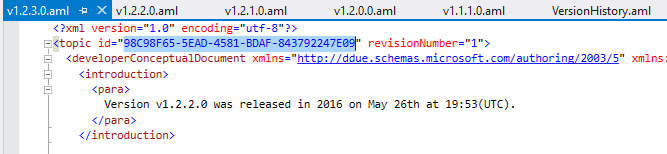


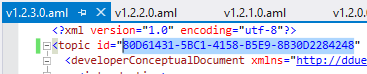
In the file browser dialog that opens find the newly copied file and add it to the project. It should now be visible in the solution explorer.



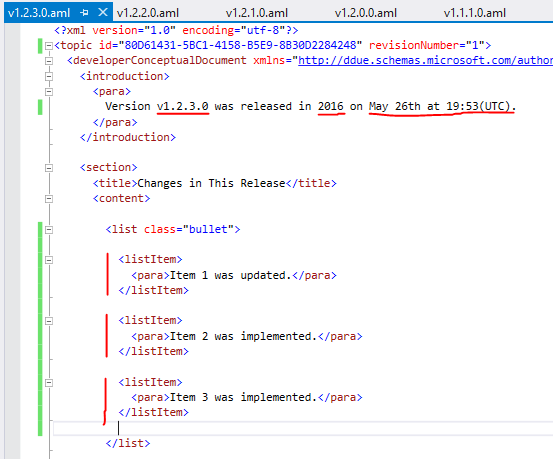
Double click the newly added file to open it.

Firstly you need to change the files id as it is the same as the previous version. You can get a new Generic Unique Identifier (GUID) in Tools 🡪 Create GUID 🡪 click new GUID then use the result to replace the existing ID.

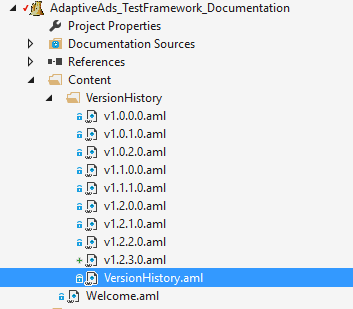




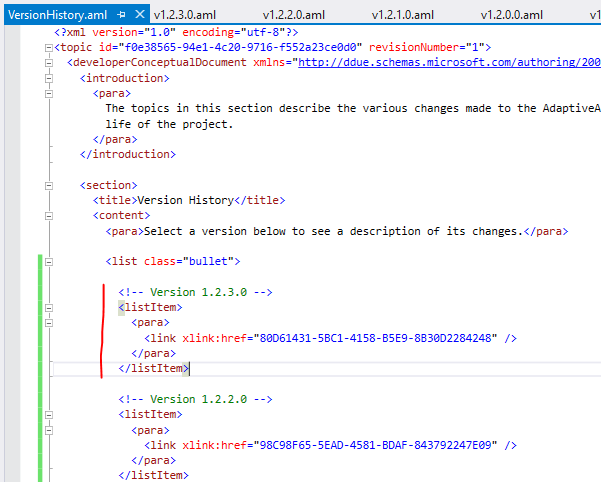
After you have updated the ID you can then edit the rest of the relevant data such as version number, release date and the changes in that release. As highlighted in red below.



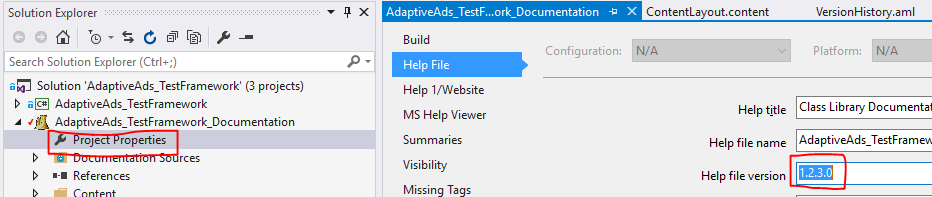
Once you have made those changes hit save then go back to the solution explorer and open the version history file.



In here make a new entry referencing the ID of the new version as highlighted below in red.

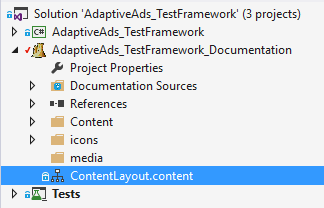


Once this is done hit save and all the version documents are successfully updated.

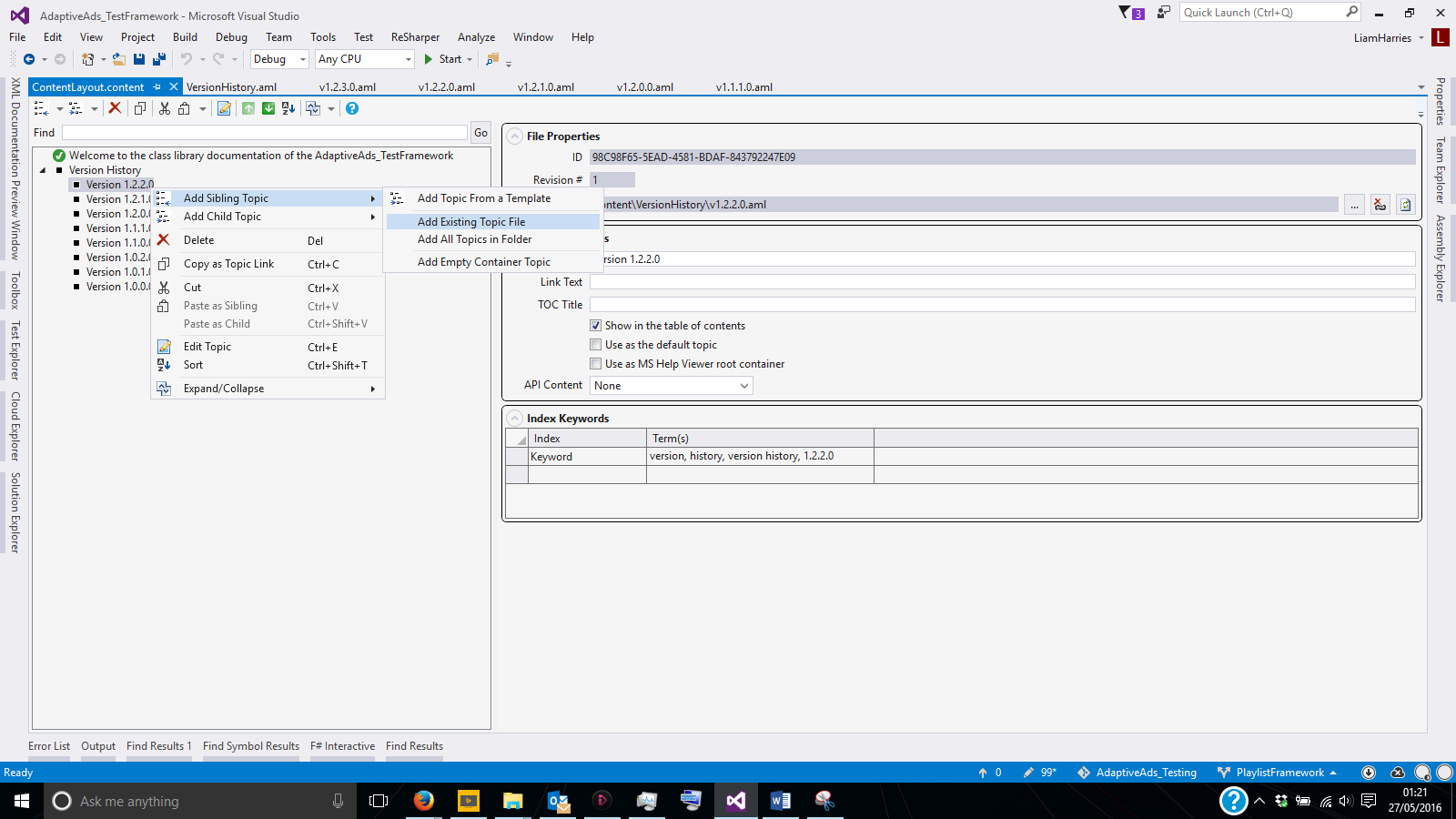
Finally open the project properties from the solution explorer and update the projects version number to reflect the latest version.  


### Updating the navigation

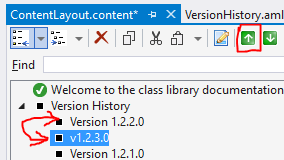
Go to your solution explorer and open the “ContentLayout.content” file.



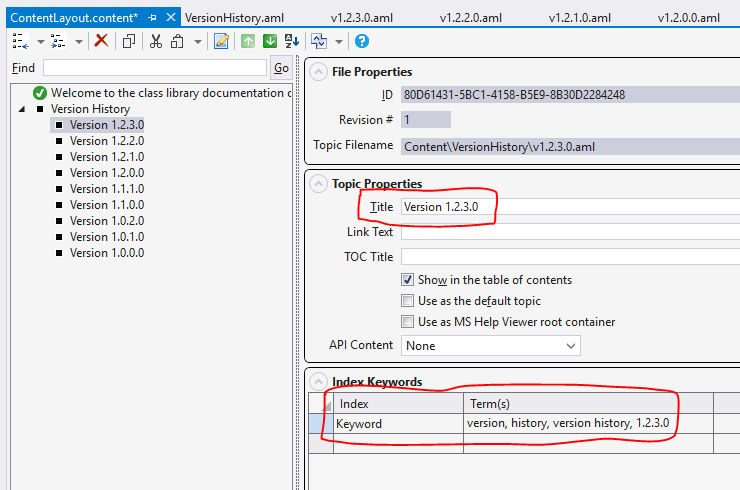
Select the latest version then rightclick 🡪 Add Sibling Topic 🡪 Add Existing Topic File. In the file dialog that opens find the newly created version from the previous section.



After the new file is added to the layout use the green arrows to place it at the top of the list.



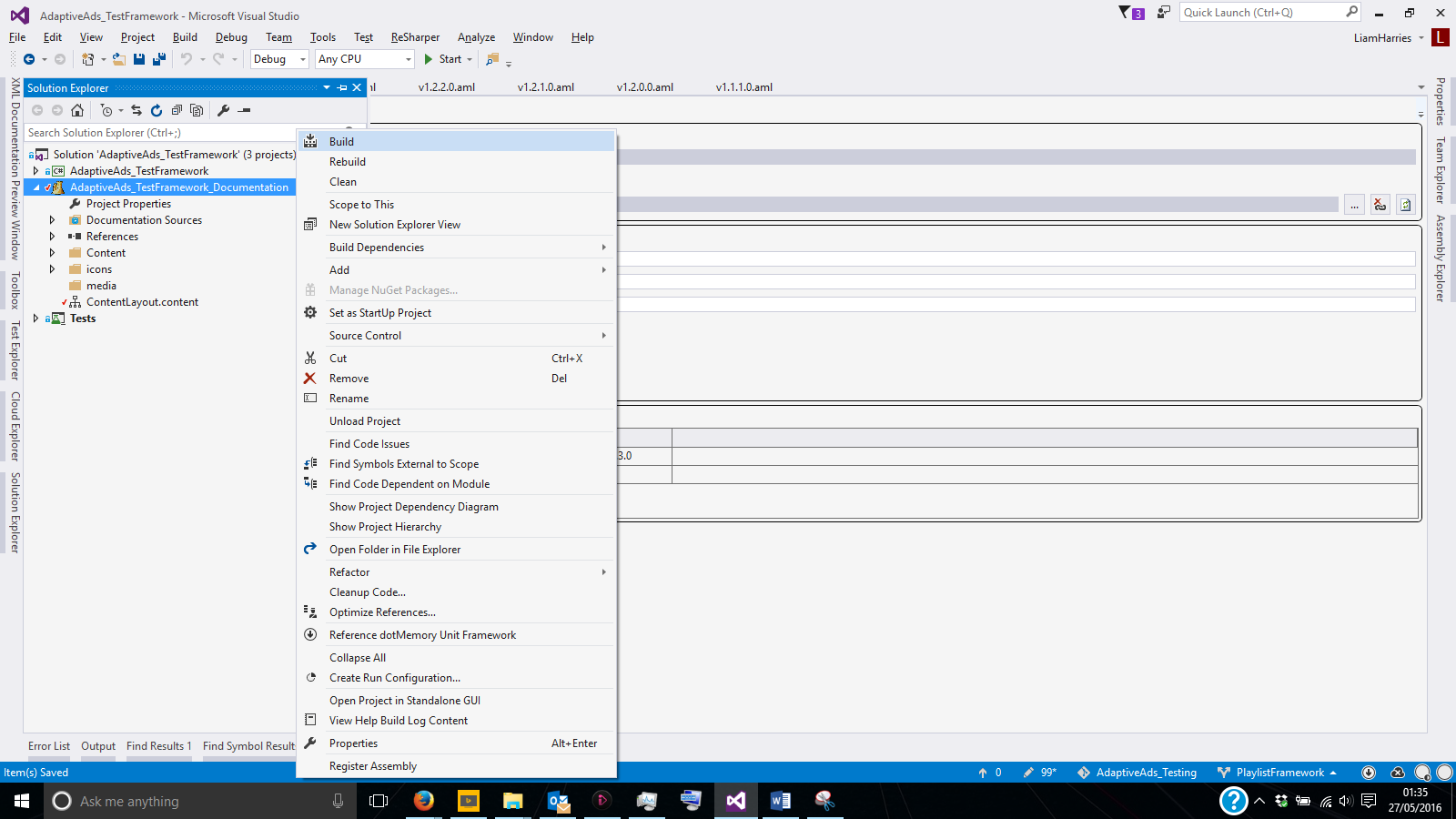
After this you can then populate the relevant information as shown below highlighted in red. This updates the title and the terms that can be used to find the file through the search feature.



Save the file and you are now ready to advance to the build stage.

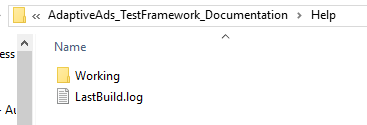
### Building the documentation

Building the documentation through the visual studio plugin is easy. If the SHFB tool was previously used instead of the visual studio plugin see the next section before continuing. Otherwise simply right click on the project in solution explorer and select build.

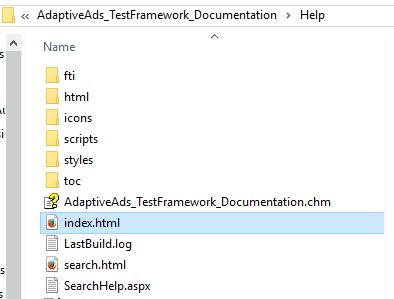


You can then right click the project and select open folder in folder explorer then open the help file which will contain the documentation.

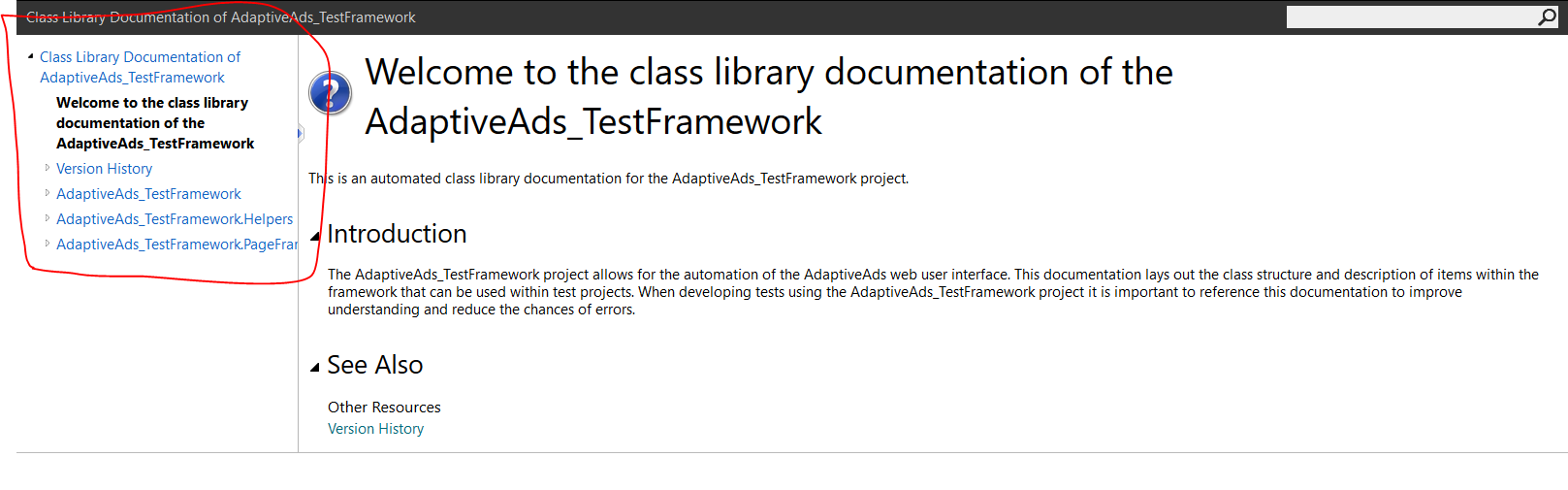
While the documentation is being built you will be met with a folder called “Working”



Once the build is complete it will change to contain all the documentation files. These can be viewed by opening the index.html file in your choice of browser.



Opening this will take you to the documentation home screen from which you can navigate to see changes from previous versions or documentation of the various parts of the test framework via the navigation pain on the left.

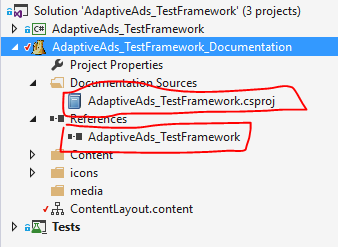


If the SHFB was used previously you may get issues building the project or it may reference an old dll. See the next section for guidance on what to do if this is the case.

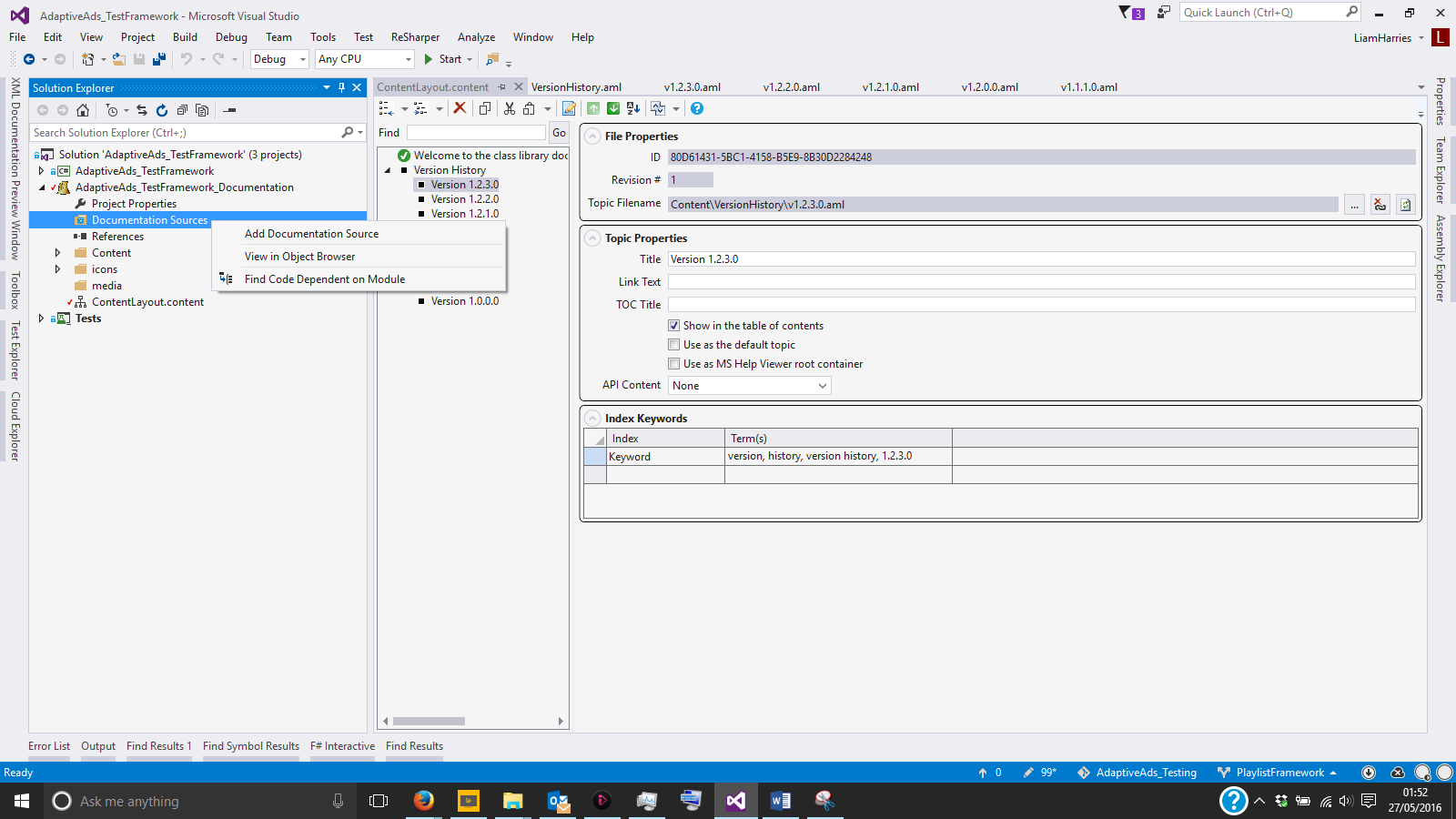
### Building if SHFB was used last time

If SHFB was previously used to build documentation you will need to reset the references in visual studio.

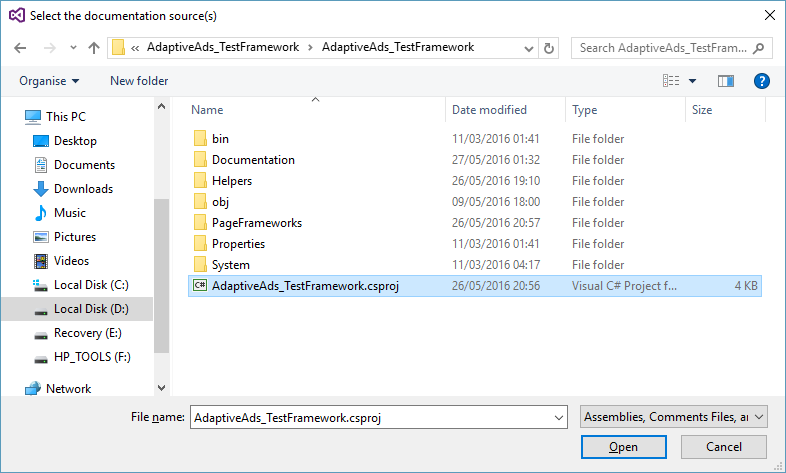
Start by removing old references and sources via the solution explorer by right clicking on each then selecting delete.



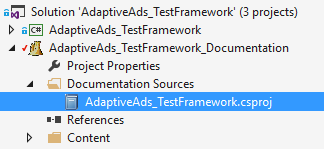
Once previous items are removed right click documentation sources and select add documentation source.



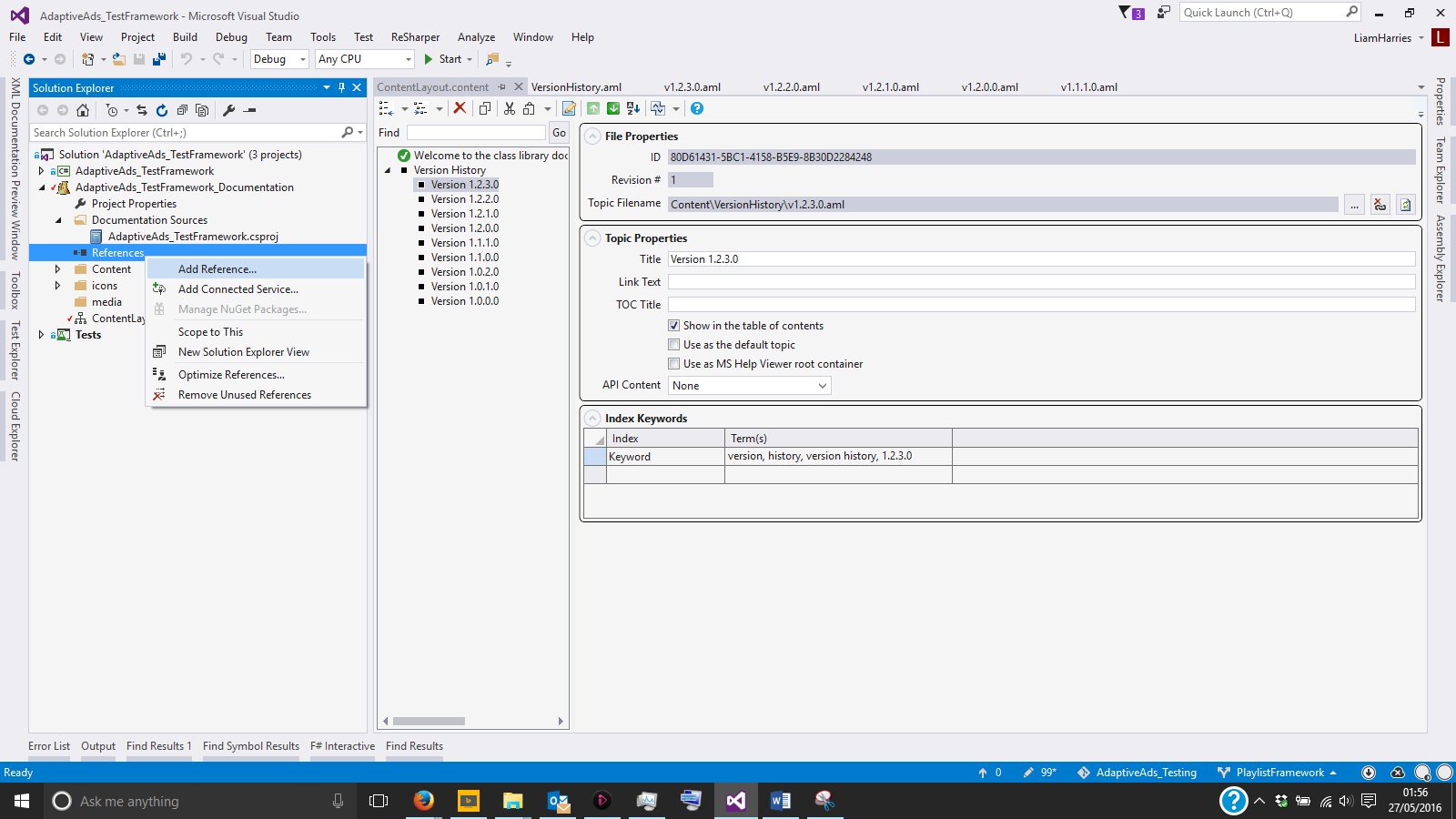
In the window that opens navigate to the AdaptiveAds\_TestFramework project inside the solution and select the AdaptiveAds\_TestFramework.csproj file then click open.



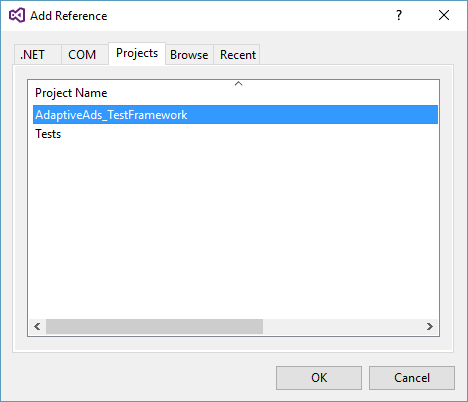
You should then be able to see the project under your sources.



Then right click references and click add a reference.

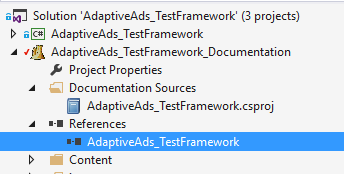


In the window that opens select the Projects tab and select the AdaptiveAds\_TestFramework project.



If you get a framework version warning click ok/yes/continue. The sandcastle framework does not need to be targeted as high as the project it is documenting.

You should then be able to see the project under your resources.



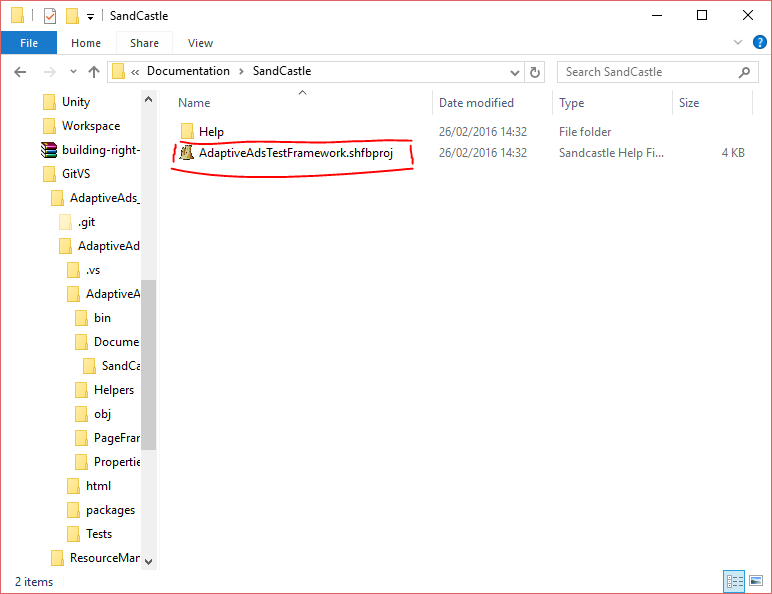
Once this is done you can re-attempt the previous section “Building the documentation”

## Via SHFB

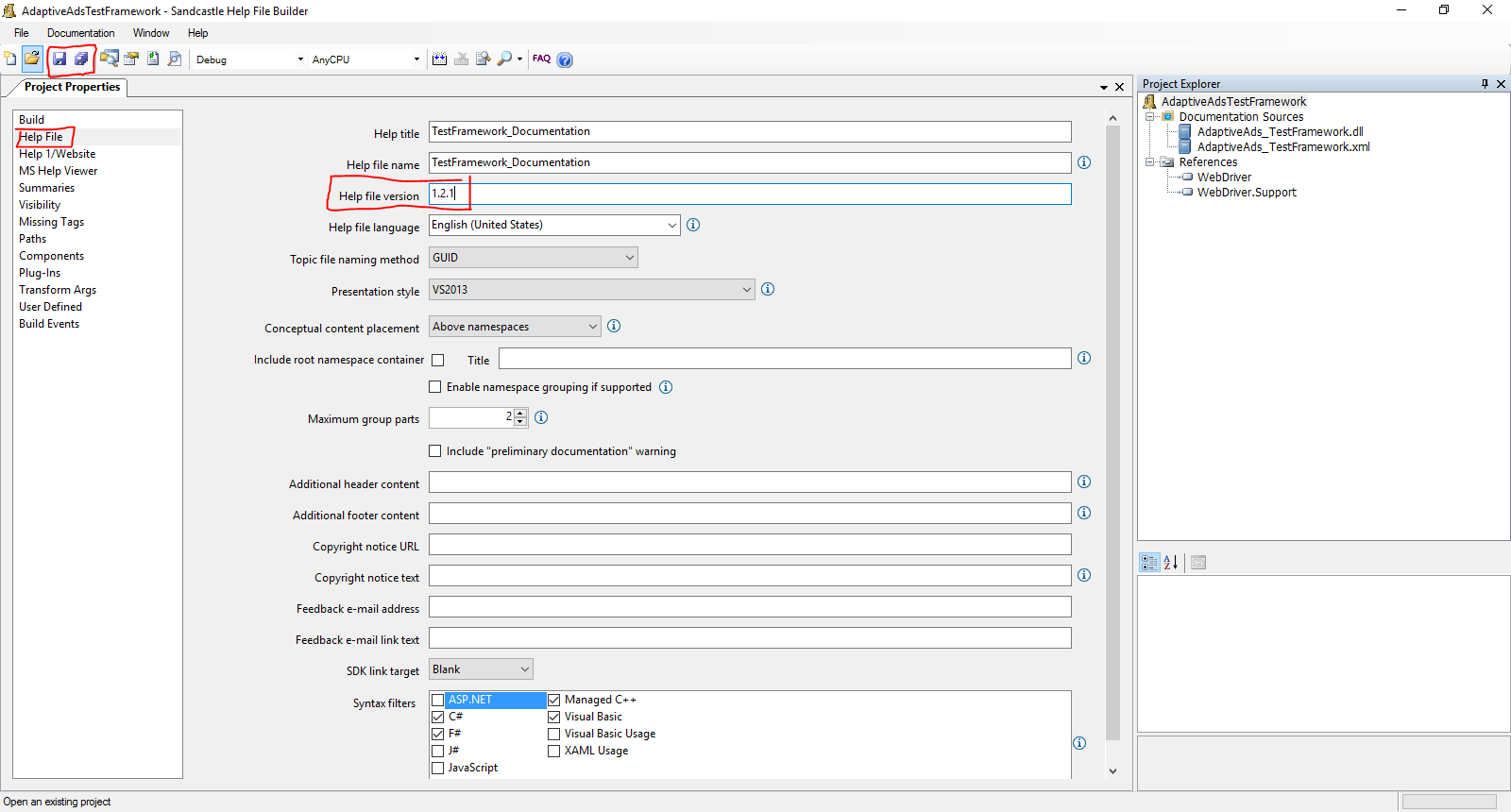
### Updating the documentation details

Updating via visual studio is much easier and the most reliable option however it can be updated vis the SHFB software if visual studio is not installed. Updating via the SHFB is more difficult and may lead to configuration problems. Also the updating of configuration layouts and version documents is much more complex than in the visual studio plugin so is not covered in this document. Because of this SHFB should be used only for testing where visual studio is not available because generated documentation will not be to a releasable standard. It should also be noted that this method is no longer under development and will not benefit from future updates.

Open the project file.



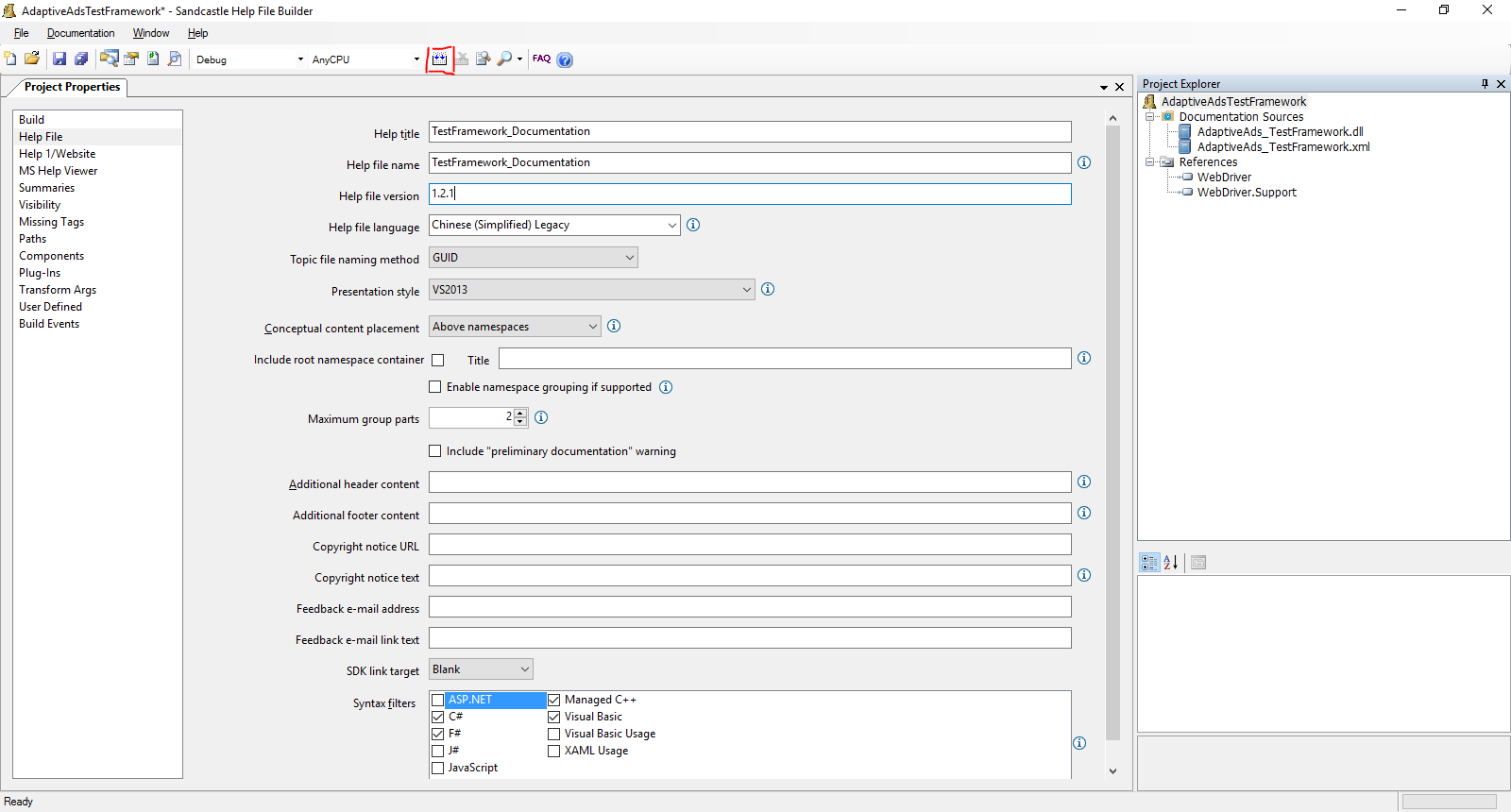
Select Help File on the left pane and update the version number using the following format. <major version>.<minor version>.<update number>.<build number> then save the project.



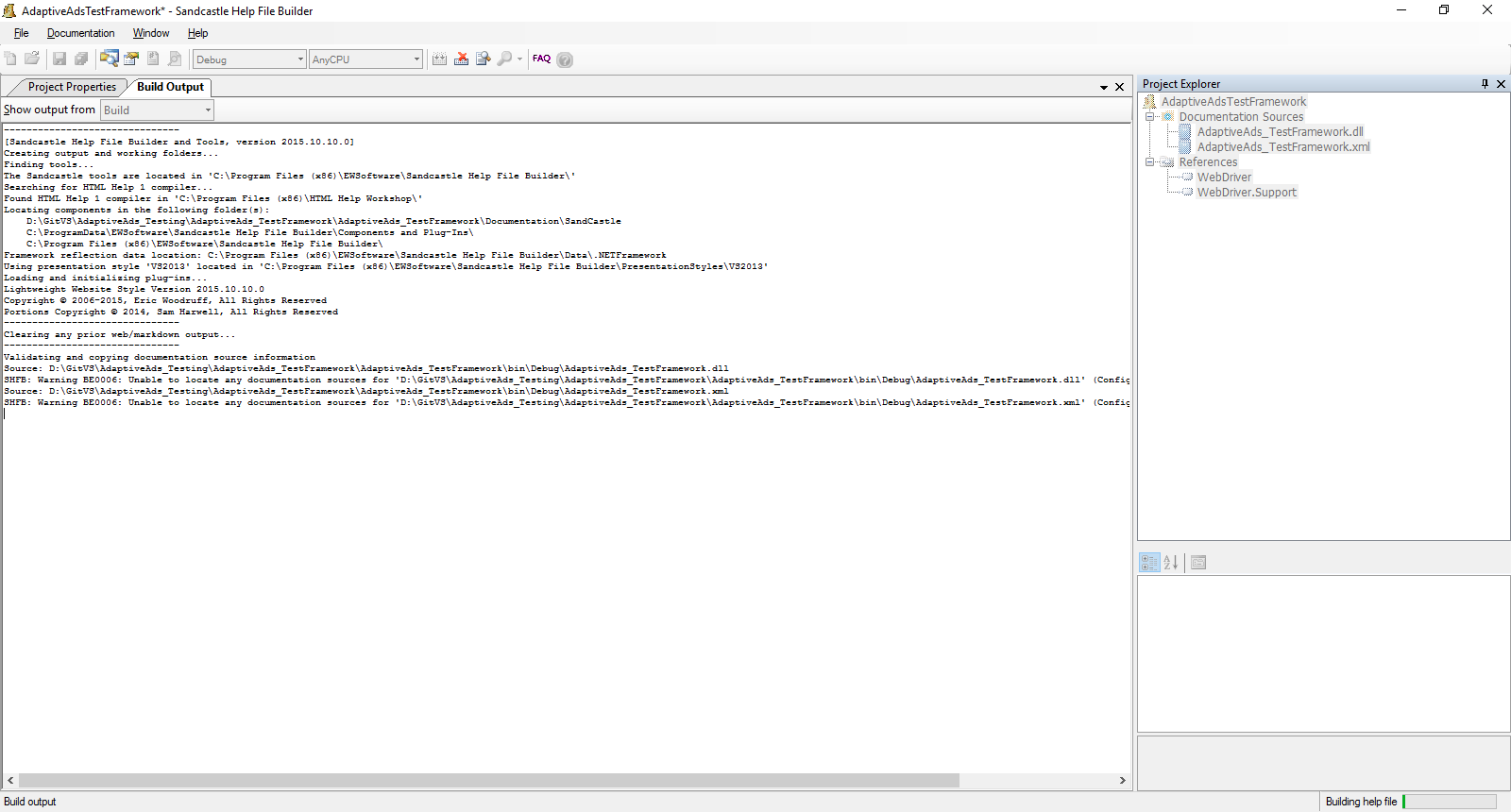
### Building documentation

#### Run new build

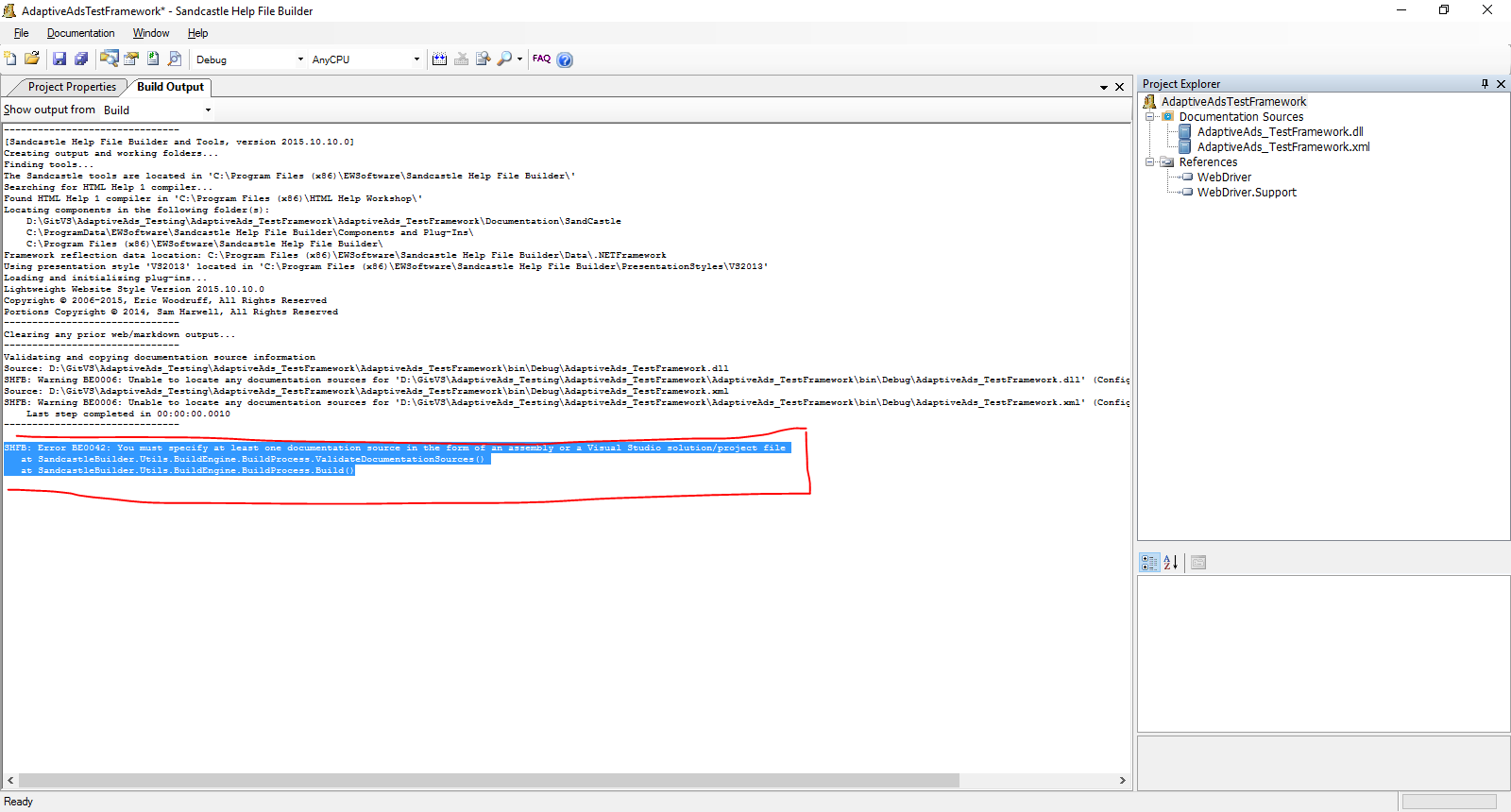
Click build



Sandcastle will begin building the documentation

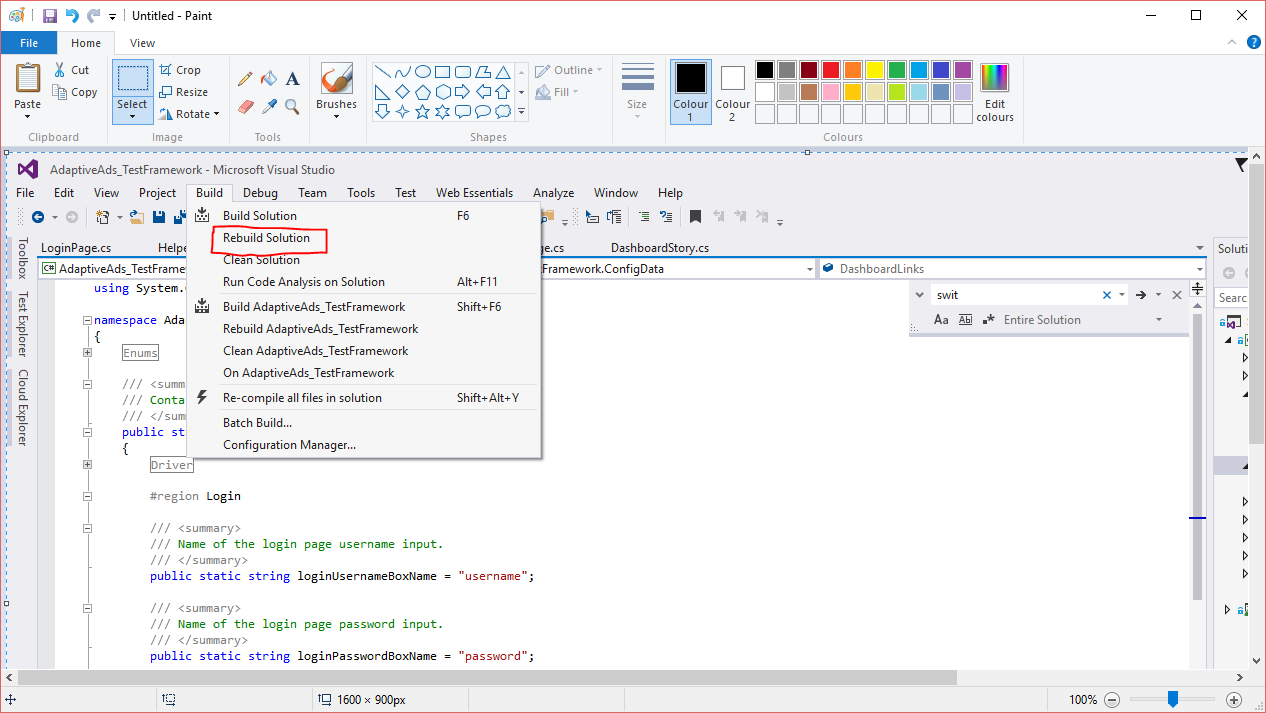


If you get the following error then Sandcastle cannot find the dlls. To rectify this you can do one of two things.

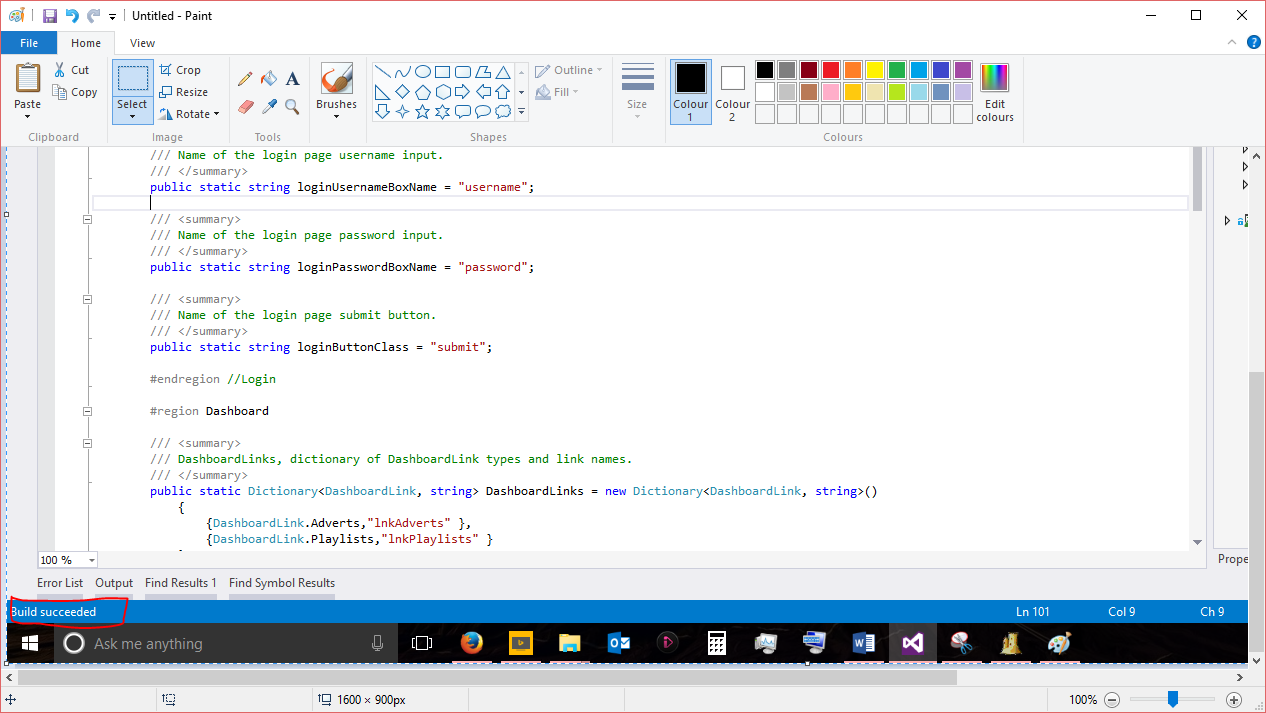


#### Error handling Option 1

If you have visual studio installed open the testing project and rebuild the project. This will generate the dlls which the documentation project is looking for.



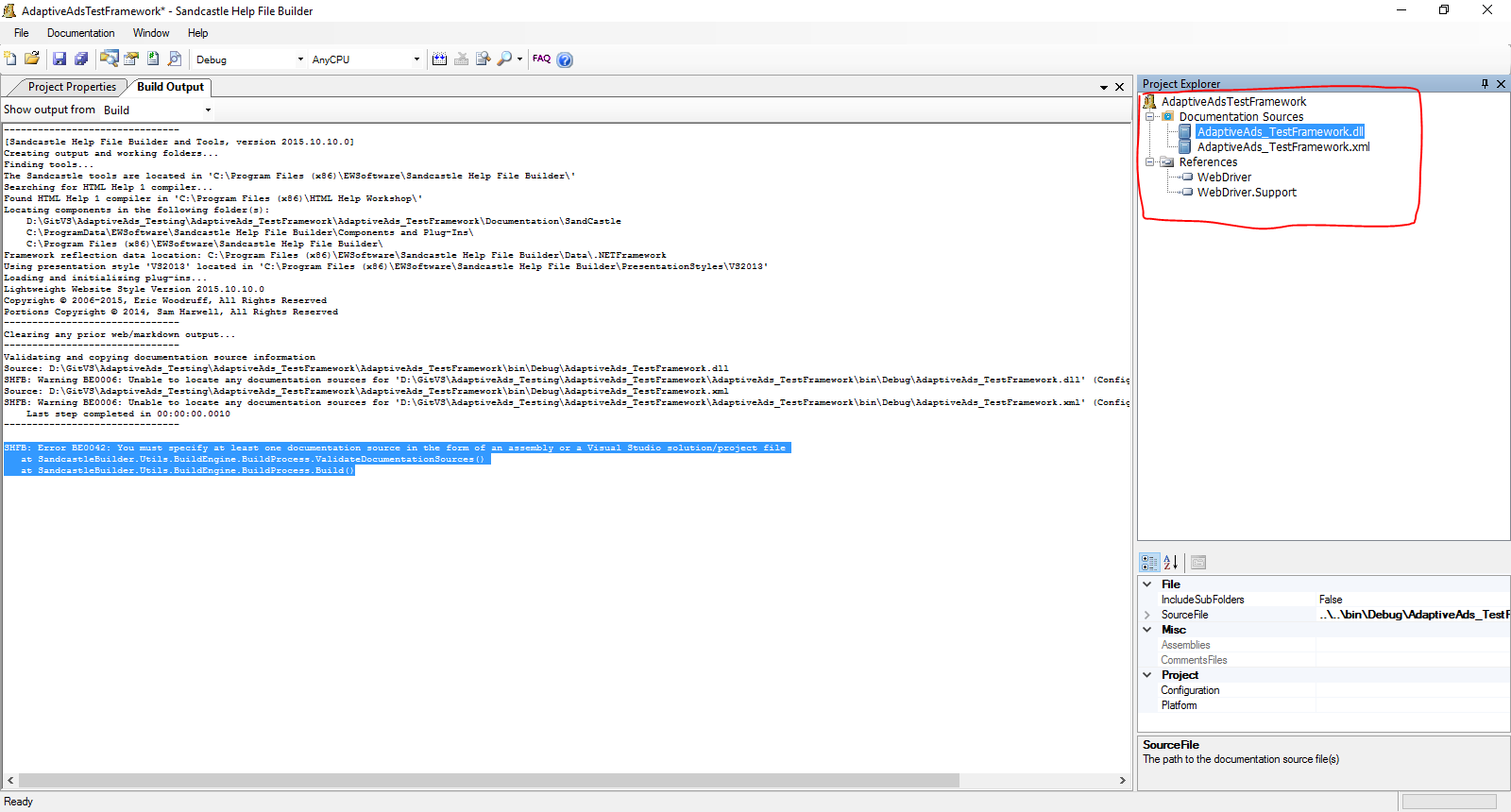
Wait for the build completion notification and then go back to SHFB and retry the documentation build.



#### Error handling Option 2

If you do not have visual studio you will need a copy of the project bin folder and add references manually to the project.

In project explorer remove the dll and xml file as well as both WebDriver references. Then rightclick document sources and select add existing. Navigate to the bin folder and add the projects dll, the xml file should automatically be pulled in, if not add it as well. Then under references click add any other dll’s that are in the bin folder as these are referenced by the project and sandcastle requires them to interrogate the project dll. After this try to rebuild.



The project will be successfully documented when you get this output.

