



.NET Upgrade Guide

GstarCAD 2022



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1. Brief Introduction

This document describes how to upgrade the .Net project/application from a lower version of GstarCAD to GstarCAD 2022.

2. Development Environment

➤ Microsoft Visual Studio Enterprise 2017 (Version 15.9.17)

➤ CPU:

Basic Requirement: 1.6 GHz CUP, Recommend: 3.0 GHz CPU and above

➤ RAM:

Basic Requirement: 2 GB, Recommend: 8 GB and above

➤ Operation System

Windows 10 version 1507 and advanced version: Including home version, professional version, education version and enterprise version (not support LTSC and Windows 10 S)

Windows 8.1 (with updated 2919355): Core version, professional version and enterprise version

Windows 7 SP1 (with latest Windows updated): Including home version, professional version, enterprise version and Ultimate version

➤ Monitor Resolution:

Traditional monitor: 1028 x 800 and above CRT monitor, including 4K (3840 x 2160) monitor

➤ GRX SDK 2022

➤ GstarCAD 2022

➤ .NET Framework 4.8 and above

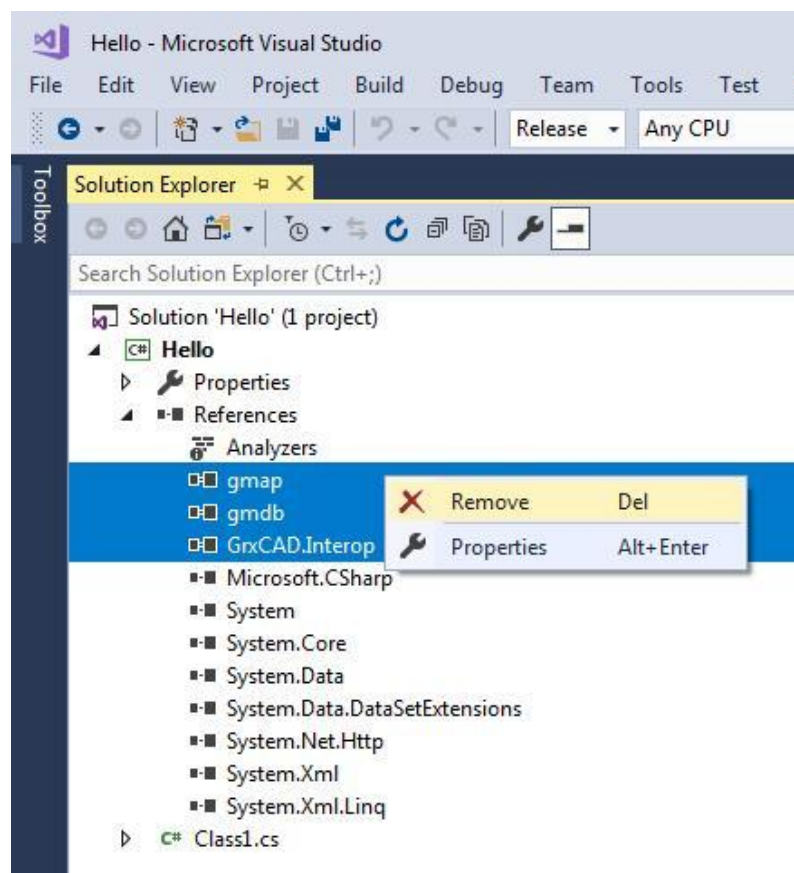
3. VS2017 C# .NET Program Upgrade Process

The following takes the creation of the "Hello" project as an example to illustrate the creation process. And assumes that the GstarCAD SDK is installed in the “c:\grxsdk” directory.

3.1. Change Reference Files

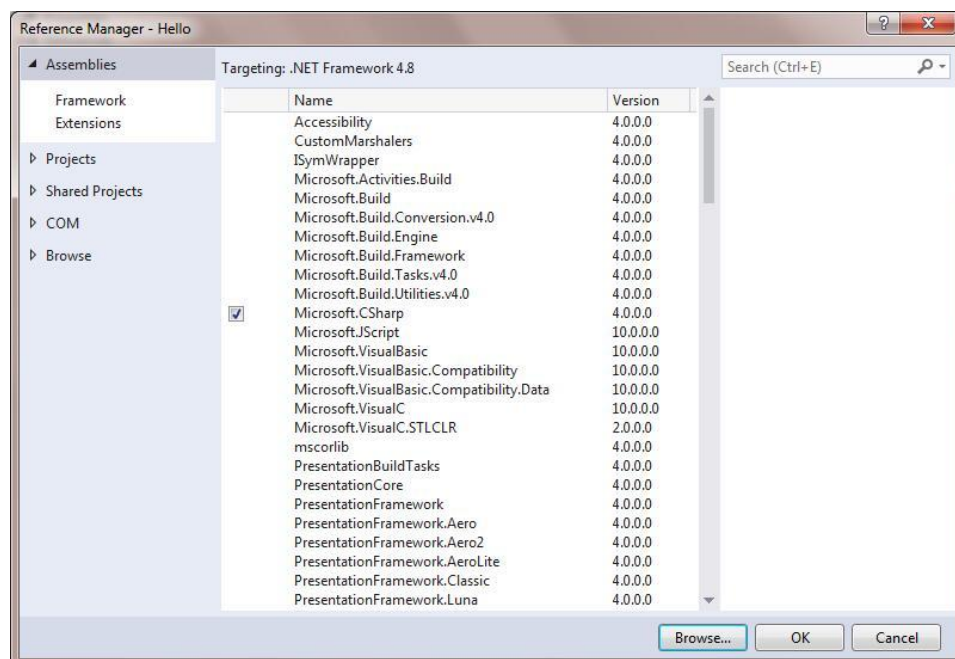
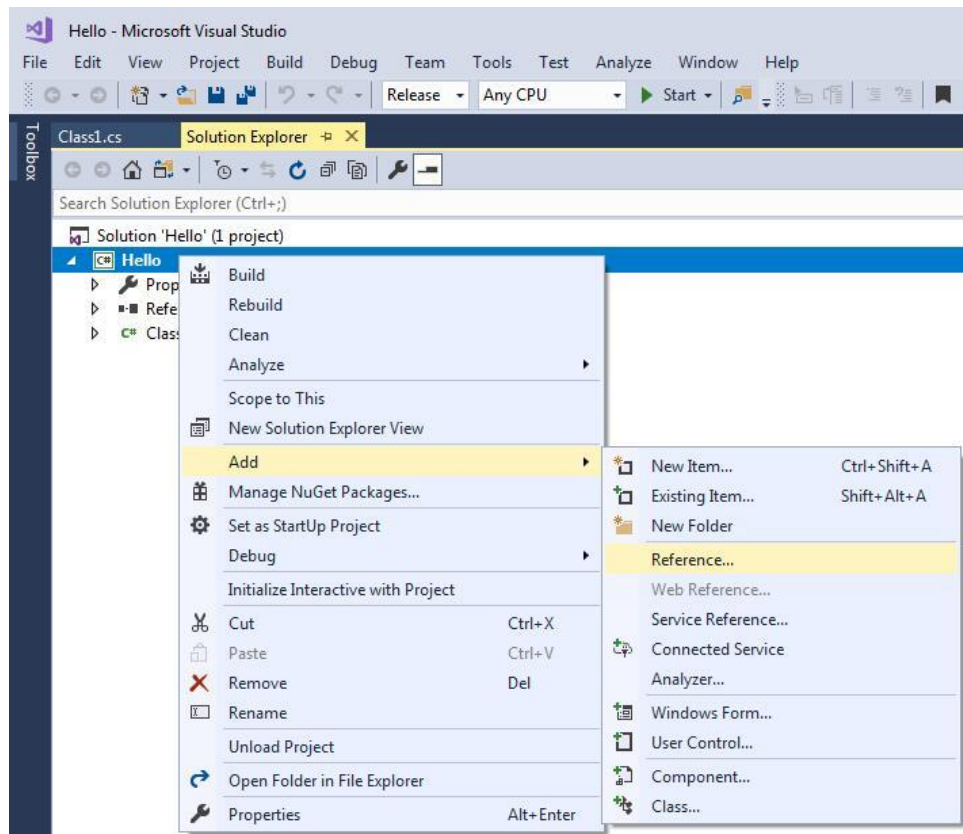
3.1.1. Remove the Reference

Right click on the reference files that referenced to the previous version of GstarCAD, click [Remove](#).



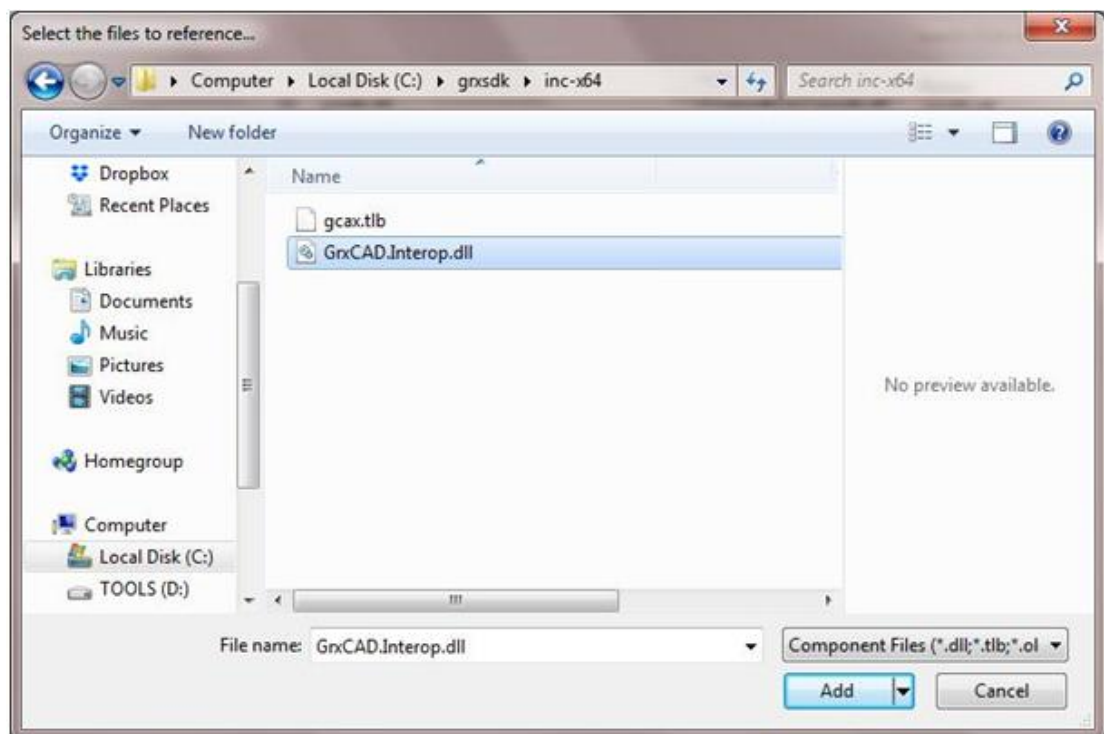
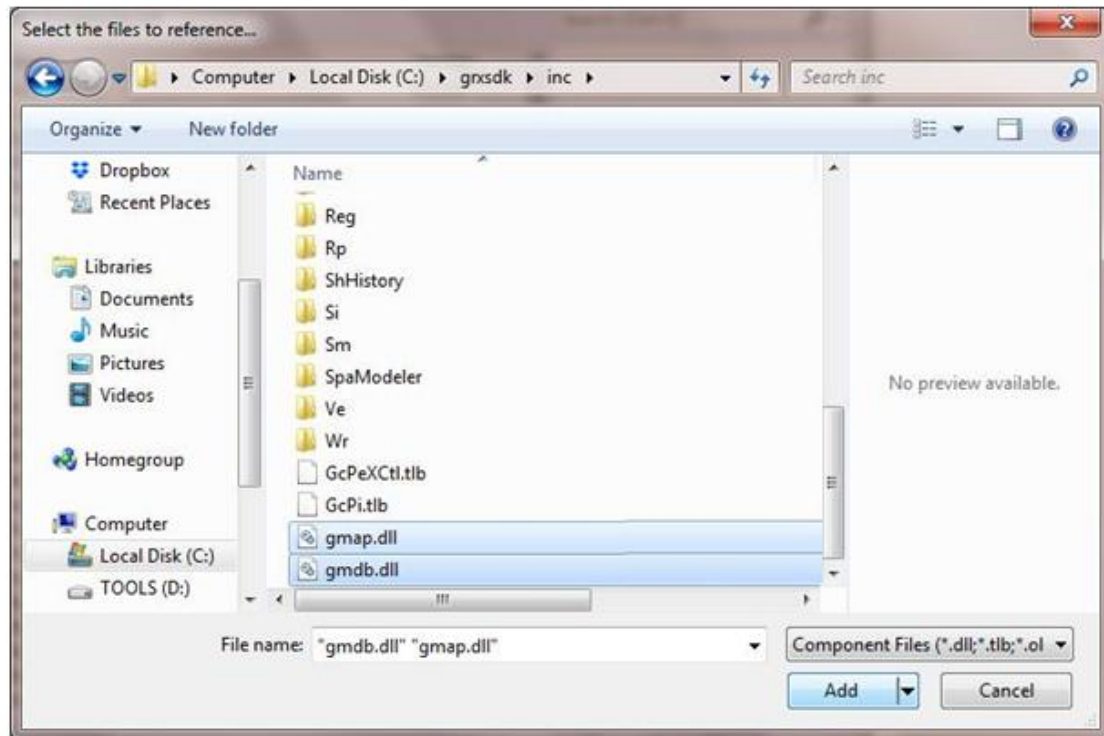
3.1.2. Add Reference

In VS 2017, find the Hello project you have been created on the solution explorer. Select the Hello project and right click to select **Add Reference**. After the "Reference Manager" dialog box pops out, click **Browse** button as shown below.

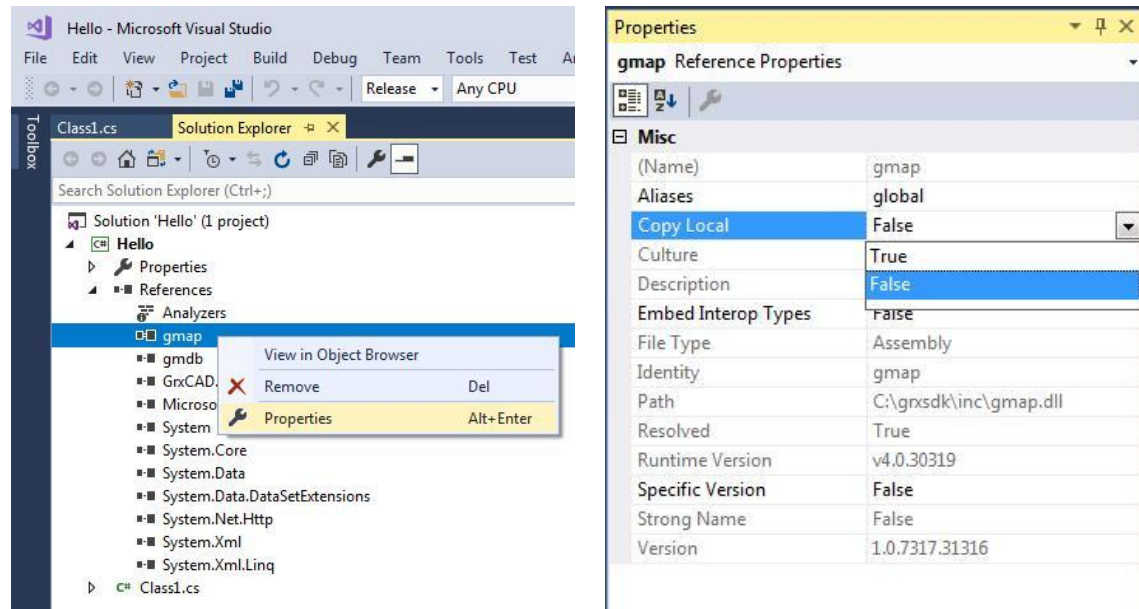


3.1.3. Load Reference File

Find the GstarCADSDK installation path, for example, "C:\grxsdk\inc". Select gmap.dll and gmdb.dll files in "c:\grxsdk\inc-x86" and add them by clicking [Add](#) button (If you use GstarCAD 64-bit version, please select GrxCAD.Interop.dll in inc-x64) .

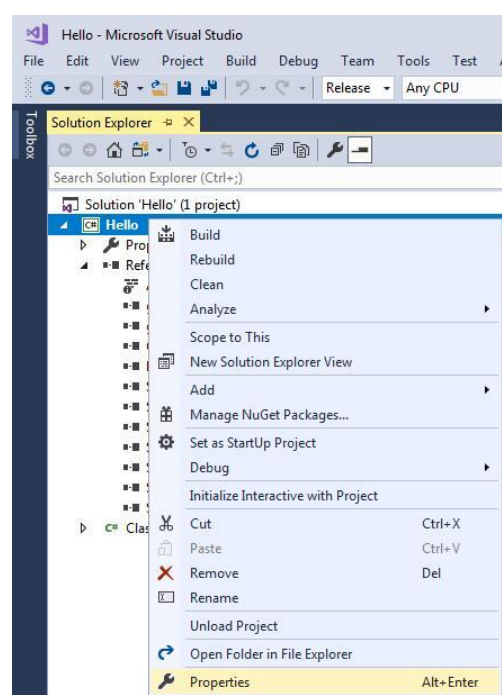


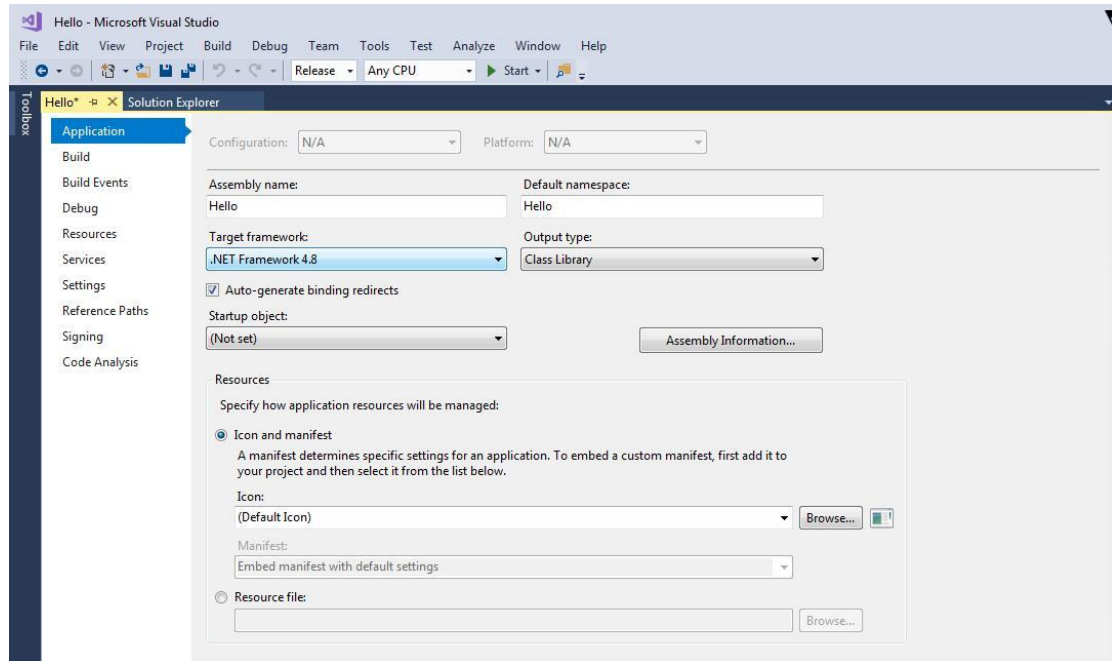
After adding the files, right click each added reference file, click [Property](#) at the context menu, then the "Reference Properties" palette pops up, change the "Copy Local" property from True to False. The following image shows how to change "Copy Local" property for gmap.dll file. Please take it as reference to change gmdb.dll file's Copy Local property.



3.2. Change the Target Framework

In VS 2017, find the Hello project you have been created on the solution explorer. Right click to select [Properties](#). After the new page opens, please change the "Target framework" to [Framework 4.8](#) from the pull-down list in [Application](#) menu.





3.3. Compile Program

Click Visual Studio 2017 menu item **[Build]** » **[Build solution]**, regenerate the dll file in the corresponding directory.

Run GstarCAD and input "netload" at command line, there will a "Select .Net Assembly" dialog box pops out, select the relative dll file and click **Open** button to load it

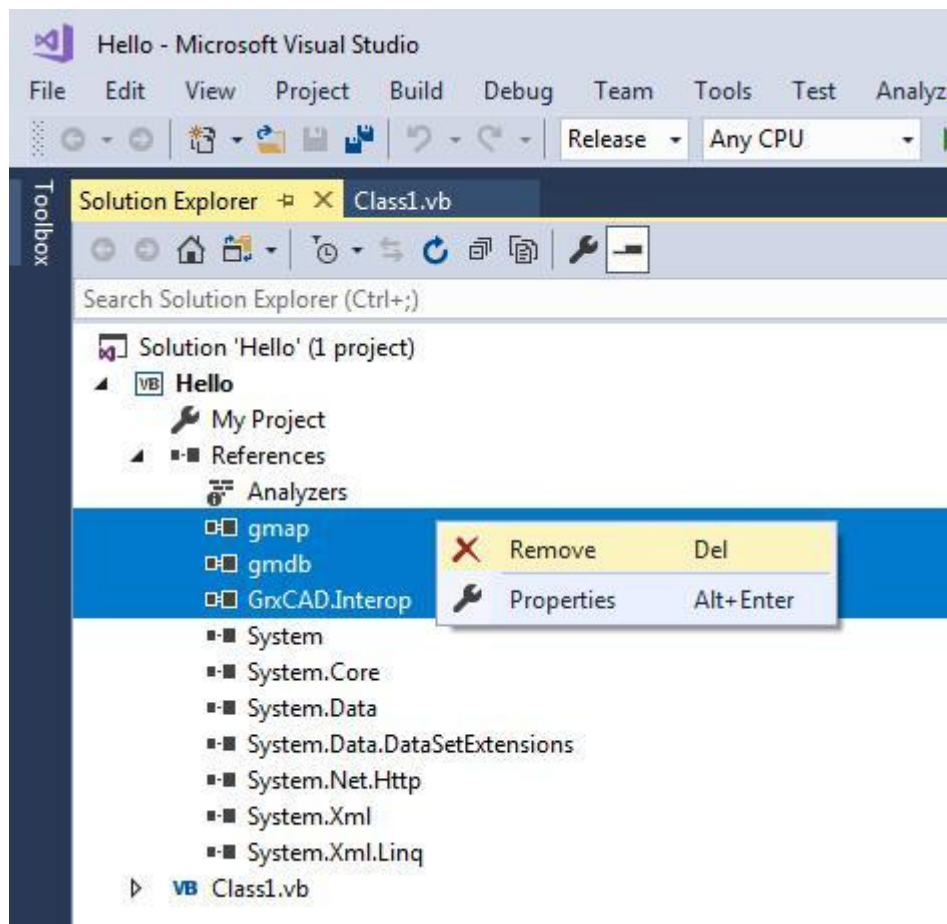
4. VS2017 VB.NET Upgrade Process

The following takes the creation of the "Hello" project as an example to illustrate the creation process. And assumes that the GstarCAD SDK is installed in the "c:\grxsdk" directory.

4.1. Change Reference Files

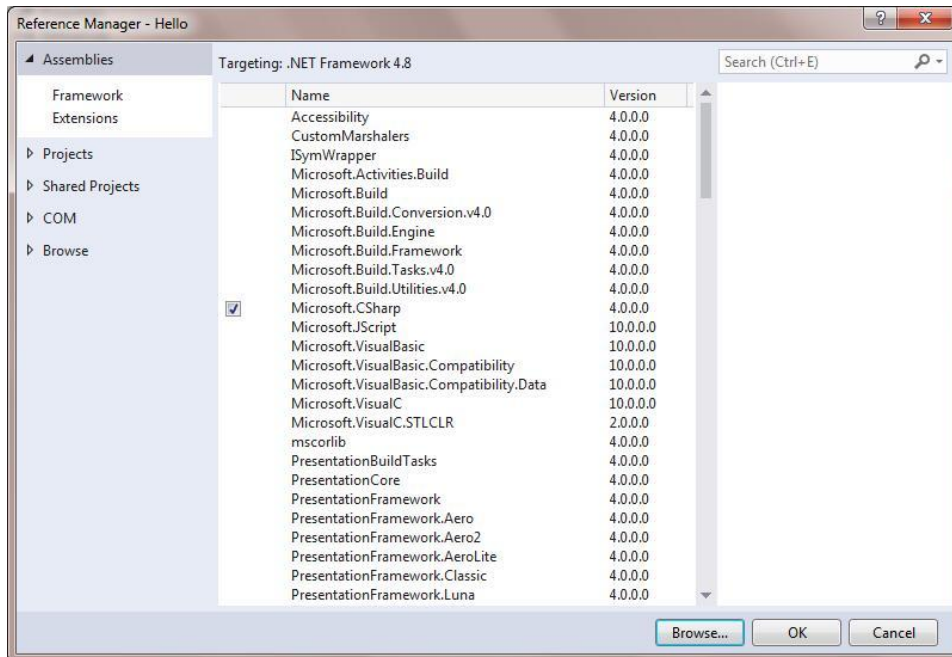
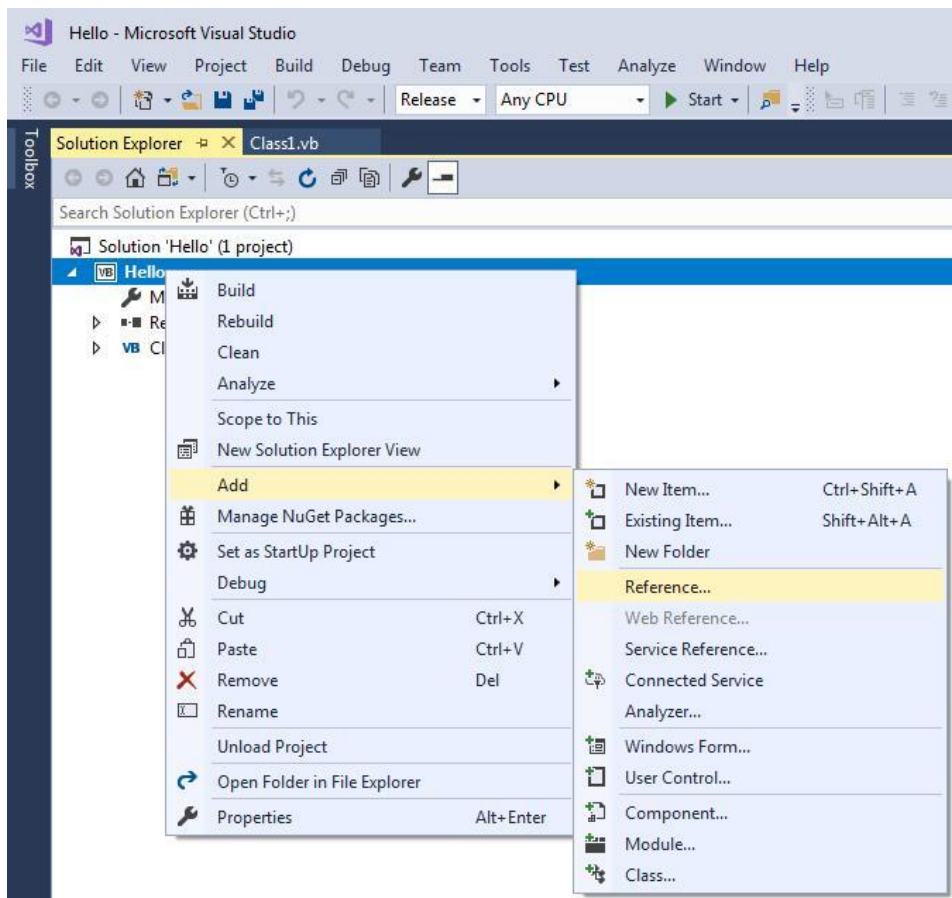
4.1.1. Remove the Reference

Right click on the reference files that referenced to the previous version of GstarCAD, click [Remove](#).



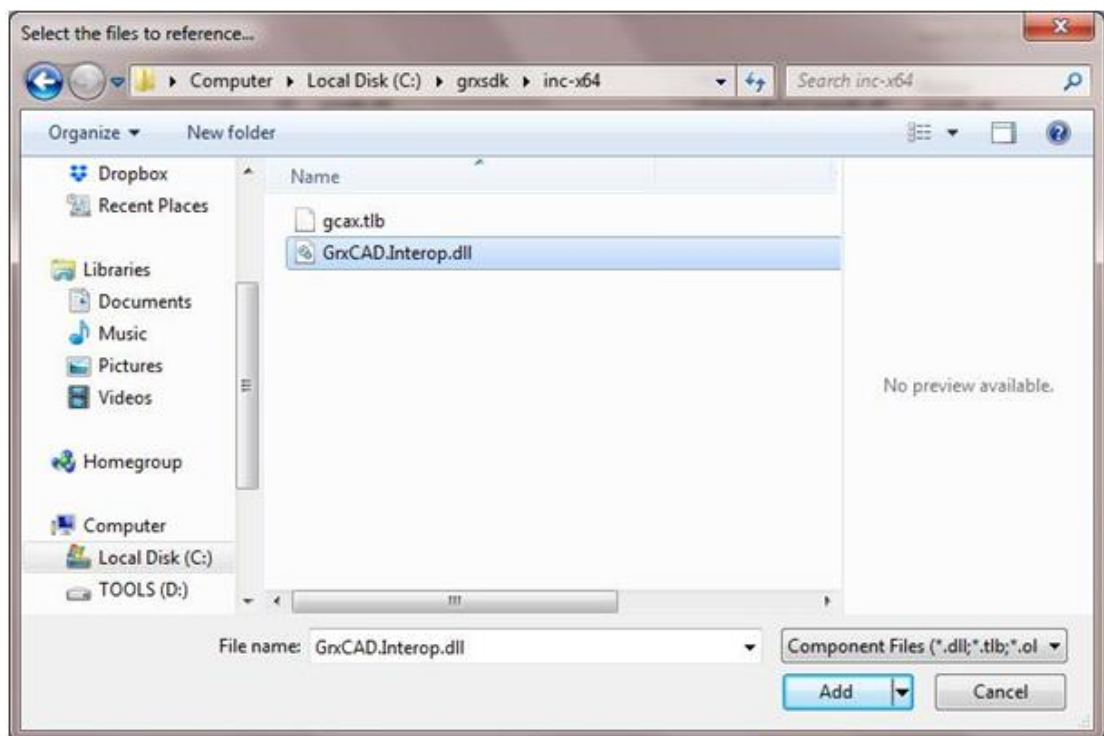
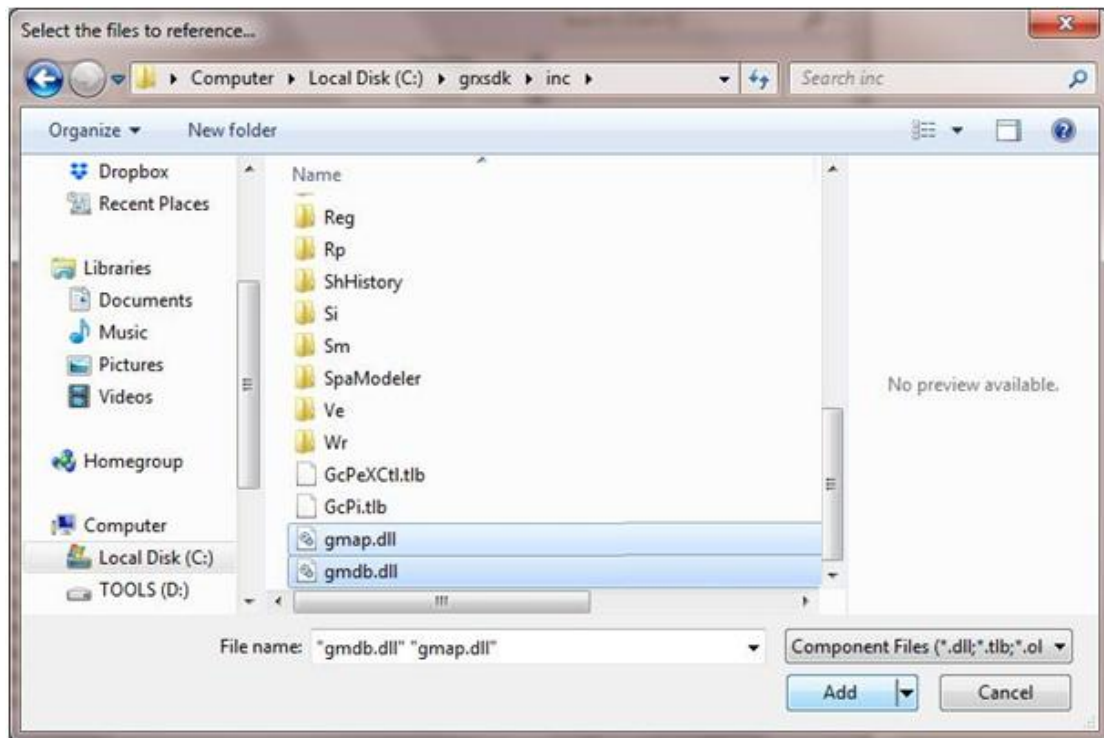
4.1.2. Add Reference

In VS 2017, find the Hello project you have been created on the solution explorer. Select the Hello project and right click to select [Add Reference](#). After the "Reference Manager" dialog box pops out, click [Browse](#) button as shown below.

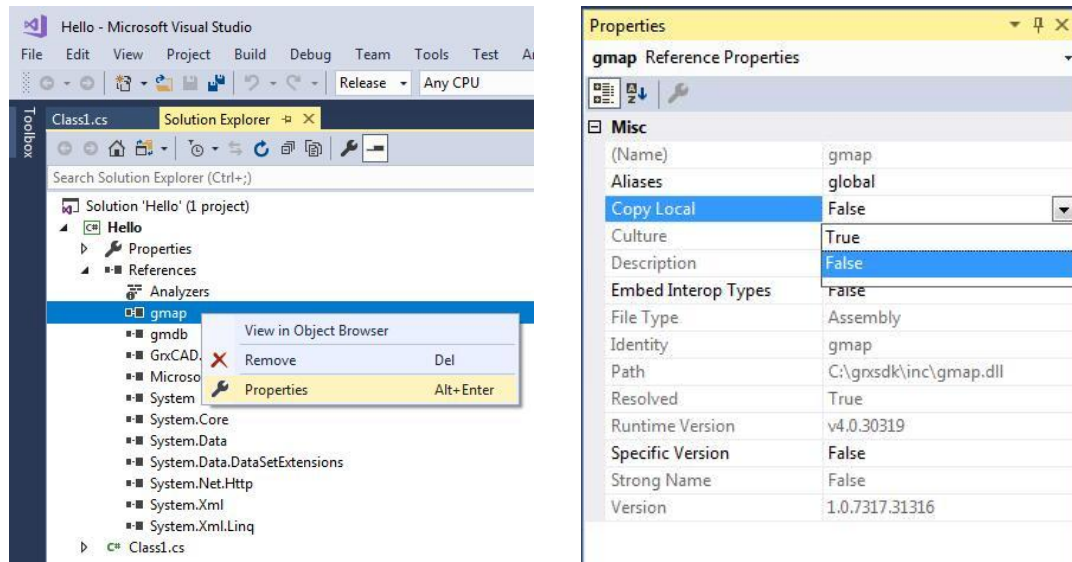


4.1.3. Load the Reference Files

Find the GstarCAD SDK installation path, for example, "C:\grxsdk\inc". Select gmap.dll and gmdb.dll files in "c:\grxsdk\inc-x86" and add them by clicking [Add](#) button (If you use GstarCAD 64-bit version, please select GrxCAD.Interop.dll in inc-x64)

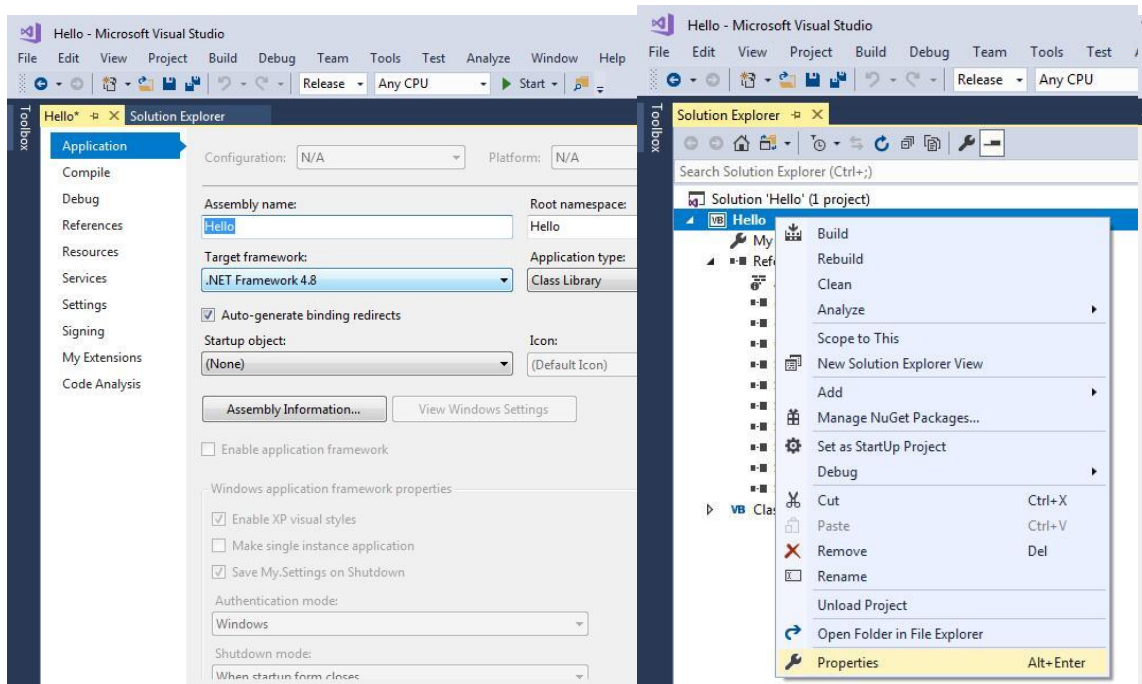


After adding the files, right click each added reference file, click **Property** at the context menu, then the "Reference Properties" palette pops up, change the "Copy Local" property from True to False. The following image shows how to change "Copy Local" property for gmap.dll file. Please take it as reference to change gmdb.dll file's Copy Local property.



4.2. Change the Target Frame

In VS 2017, find the Hello project you have been created on the solution explorer. Right click to select **Properties**. After the new page opens, please change the "Target framework" to **Framework 4.8** from the pull-down list in **Application** menu.



4.3. Compile Program

Click Visual Studio 2017 menu item [\[Build\]](#) » [\[Build solution\]](#), regenerate the dll file in the corresponding directory.

Run GstarCAD and input "netload" at command line, there will a "Select .Net Assembly" dialog box pops out, select the relative dll file and click [Open](#) button to load it

5. Copyright

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* AutoCAD® is a product of Autodesk® Company which is one of the CAD software solution providers. ARX is an abbreviated name of ObjectARX, which is AutoCAD® Runtime eXtension, and C++ SDK provided by Autodesk®.



GstarCAD 2022



■ <https://www.gstarcad.net/>