



Visual Basic Programming Guide

GstarCAD 2024

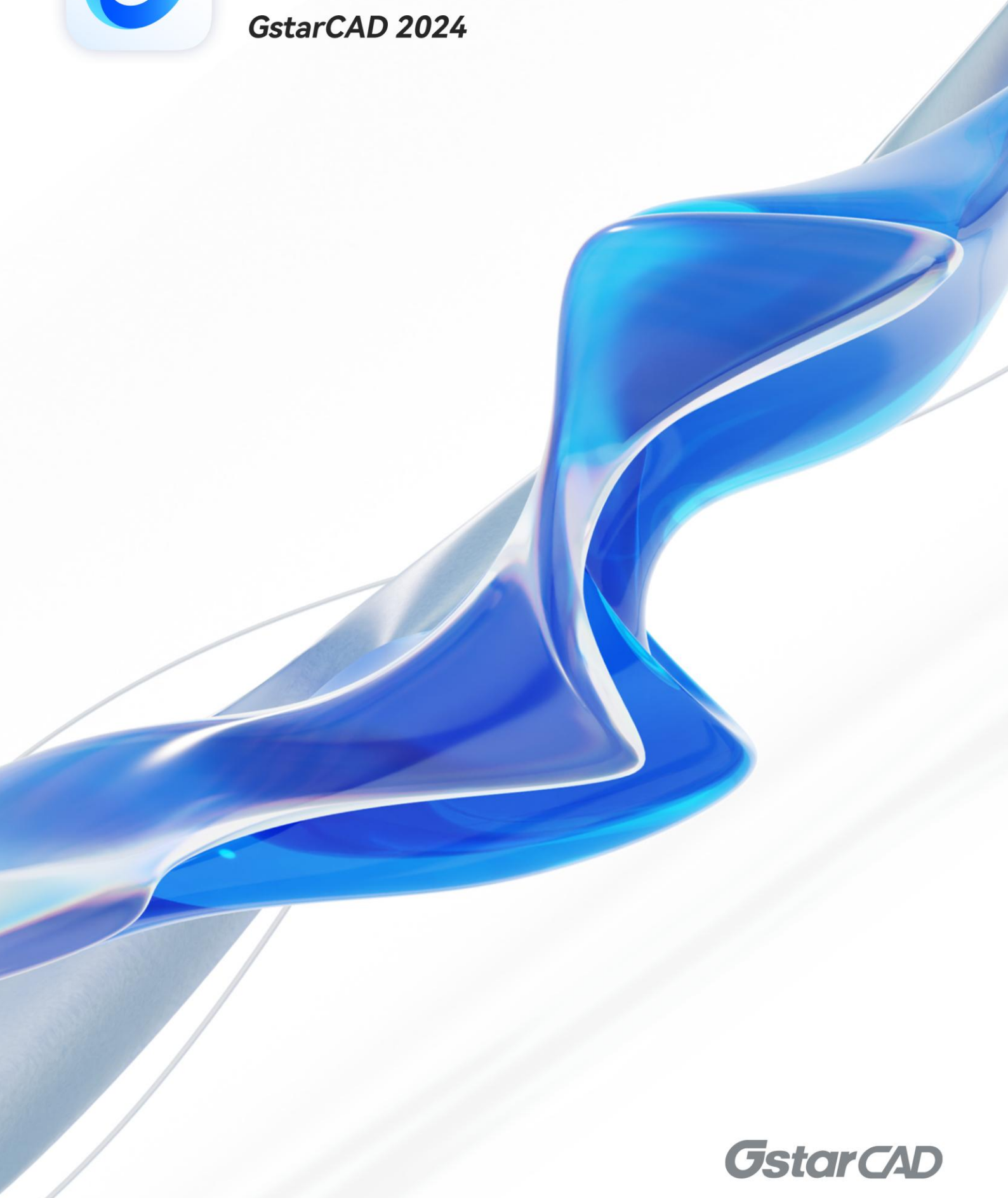


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1. Introduction

Using Visual Basic to develop application programs on GstarCAD is essentially programming based on the COM API provided with GstarCAD, which is very popular and easy to use.

2. Install GstarCAD SDK

Download GstarCAD SDK ('GRXSDK.ZIP' file) from GstarCAD website:

<https://www.gstarcad.net/download/>

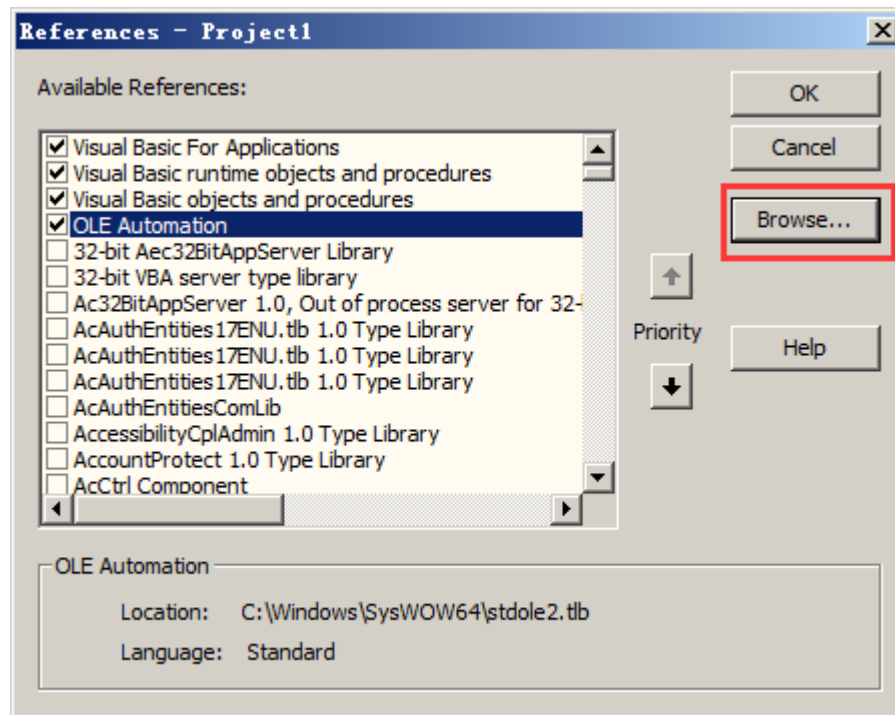
Unzip GRXSDK.ZIP file to the local disk (e.g. 'C:\grxsdk') and there will be 5 directories generated (in 'C:\grxsdk') which are: **arx**, **inc**, **inc-x64**, **lib-x64** and **utils**.

arx contains the header files, library files and sample programs used for porting ARX programs to GRX programs. It contains the following directories:

- **Inc:** Header files used for porting from ARX to GRX
- **inc-x64:** Files used by COM and .NET (for 64-bit)
- **lib-x64:** GRX libraries (for 64-bit)
- **Samples:** Sample projects, including Dotnet, fact_dg, HelloADS, HelloA and SimplePalette.
 - **Dotnet:** .NET programming samples
 - 1) **Addline:** .NET programming sample of adding solid lines
 - 2) **Hello:** .NET programming sample of outputting prompt information
 - 3) **Vbhello:** Sample of .NET programming with VB .NET
 - **fact_dg:** Sample of LISP function definition
 - **HelloADS:** Sample of ADS programming
 - **HelloARX:** Sample of GRX programming
 - **SimplePalette:** Programming sample of how to create a set Palette windows
 - **Utils:** Directory contains sub-directories of GRX extended applications, including APIs for extended function development, e.g. BREP for boundary representation.
- **inc-x64:** Files used by COM and .NET (for 64-bit)
- **lib-x64:** GRX libraries (for 64-bit)
- **Utils:** Directory contains subdirectories of GRX extended applications, including APIs for extended function development, e.g. BREP for boundary representation.

3. Create Visual Basic Project

- 1) Create a new Visual Basic project, and add a reference
- 2) Select menu **Project**→**Reference...**



- 3) Click **Browse...** button and select the corresponding '*acax.tlb*' file in GstarCAD SDK installation directory, e.g. 'C:\grxsdk\arx\inc-x64'.

NOTE: Please use **Run as Administrator** to start Visual Basic.

4. Get GCAD Application

Please use following codes to get GCAD applications:

On Error Resume Next

Set GCADapp = GetObject("gcad.application")

If Err Then

Set GCADapp = CreateObject("gcad.application")

GCADapp.WindowState = acMax

End If

5. Visual Basic Migration

To migrate the Visual Basic codes from AutoCAD® to GstarCAD, it is necessary to change the names of some COM objects used in AutoCAD® to the corresponding COM object names used in GstarCAD, e.g. change '*AcadLWPolyline*' to '*GcadLWPolyline*', the prefix '*Acad*' need to be changed to '*Gcad*'.

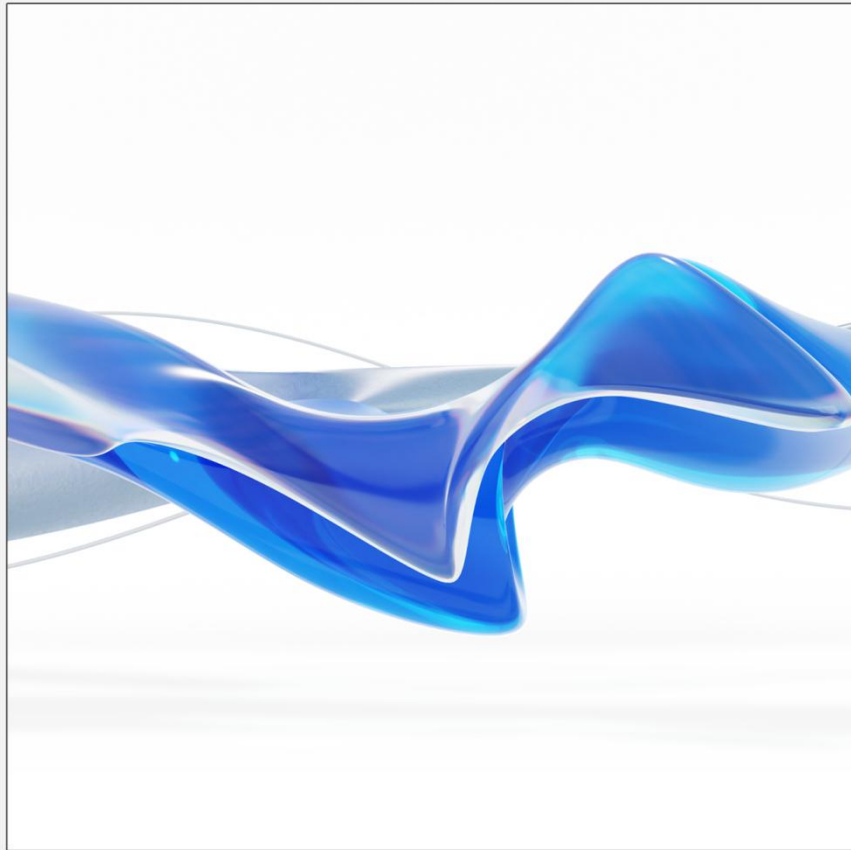
6. Copyright

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