



# ***Visual Basic Programming Guide***

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***GstarCAD 2027***



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## 1. Introduction

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

## 2. Install SDK

Download SDK.

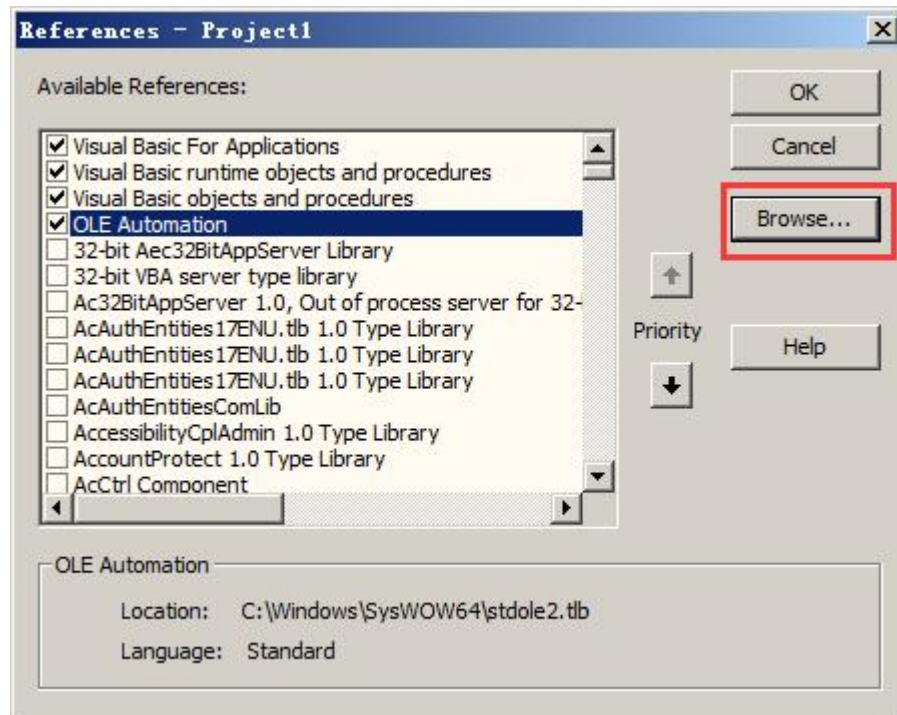
Unzip GRXSDK.ZIP file to the local disk (e.g. 'C:\grxsdk') and there will be 5 directories generated (in 'C:\grxsdk') which are: **arx**, **inc**, **inc-x64**, **lib-x64** and **utils**.

**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, HelloARX 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 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®, it is necessary to change the names of some COM objects used in AutoCAD® to the corresponding COM object names, e.g. change '*AcadLWPolyline*' to '*GcadLWPolyline*', the prefix '*Acad*' need to be changed to '*Gcad*'.

## 6. Copyright

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