



TBarCode OCX

Barcode ActiveX® Control

Version 11

Developer Manual

27 March 2024

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3 Introduction

3.1 What is TBarCode SDK?

TBarCode SDK is a set of professional tools for the generation of barcodes. More than 100 different symbologies (linear barcodes, 2D barcodes and stacked barcode variants) can be printed or exported as graphics files. All industry formats are supported. The barcodes can be generated in the highest possible resolution and quality.

TBarCode SDK is available in several versions for different operating systems, applications and programming environments. The following versions are included in this setup:

TBarCode OCX	A Microsoft® ActiveX® compliant barcode control. It can be used with Microsoft® Office applications as well as by software developers.
TBarCode .NET	A .NET barcode library for software developers. It includes barcode controls for Windows Forms and ASP.NET 2.0.
TBarCode Library	A DLL for Windows platforms for software developers. (A DLL for Windows CE/Windows Mobile is available on request. Please contact us with your platform details.)

3.2 Security Notice

- ▶ The ActiveX control **TBarCode OCX** is a site-locked ActiveX control. This security enhancement was implemented in response to a reported possible security leak in conjunction with Internet Explorer and an installed **TBarCode OCX**.
- ▶ The **TBarCode OCX** methods `SaveImage()` and `SaveImageEx()` are restricted to specific internet zones. This happens only if **TBarCode OCX** runs in Microsoft Internet Explorer as part of a web page. The allowed zones can be specified in the registry. In addition, these functions append the correct image filename extension if the file extension specified by the user does not match the supported image formats.

Please refer to the **TBarCode OCX Developer Reference** for details.

3.3 What is TBarCode OCX?

TBarCode OCX is a Microsoft® ActiveX® compliant barcode control. Such an ActiveX control is sometimes called OLE control or OCX control. In German, it is named "Steuerelement".

You can use **TBarCode OCX** in:

- Microsoft® Office: barcodes are embedded into documents, forms or databases easily.
- Development environments: integrate barcodes into your own application(s).
- Report-Generators and Reporting Engines: Enhance the output with barcode functionality.
- Web Applications: Use barcode technique as part of browser-based applications.
- Most programming and script languages.

3.4 Scope of this Document

This document shows developers how to use **TBarCode OCX** with various IDEs (integrated development environments) like Visual Studio.

3.5 Restrictions of the Demo Version

In the demo version, the barcodes is drawn with a demo-hint. That means that the word “Demo” or the phrase “www.tec-it.com” is drawn partially over the barcode. The demo-hint does not influence the readability of the barcode in a negative way.

- ▶ In special cases (e.g. very small or high-resolution barcodes), you may want to test the product without restrictions. To obtain a temporary license key contact sales@tec-it.com.
- ▶ For enabling the full-featured version (without the demo hints), you can obtain a license key from TEC-IT (<https://www.tec-it.com/order>).
- ▶ For more information on licensing **TBarCode**, please refer to section A.2.

4 Installation

4.1 Requirements

The following operating systems are supported:

- Microsoft Windows 11
- Microsoft Windows 10
- Microsoft Windows 8
- Microsoft Windows 7 SP1
- Microsoft Windows Server 2016 / 2019 / 2022
- Microsoft Windows Server 2012 and 2012 R2
- Microsoft Windows Server 2008 SP2 and 2008 R2 SP2

4.2 Download and Setup

Download **TBarCode SDK** from <https://www.tec-it.com/Download> ► *TBarCode SDK* and execute the setup application. Depending on your selection one or more of the following components are installed – along with documentations and sample applications:

- **TBarCode OCX**
A barcode ActiveX control for Microsoft Office users and for software developers. User manual and API reference are included in the setup.
- **TBarCode Library**
A DLL for software developers. Developer manual and API reference are included in the setup.
- **TBarCode .NET**
For software developers. Developer manual and API reference are included in the setup.

- Administrative rights are required to install.
- **TBarCode OCX** is an ActiveX control. ActiveX controls must be registered within the Microsoft Windows operating system before they can be used. This registration is executed automatically by the setup application. On demand, you can register the OCX file manually with the command line tool “*regsvr32.exe*”.

5 Microsoft Development Environments

5.1 Microsoft Visual Basic 6

In order to insert **TBarCode OCX** in Visual Basic 6, please execute the following steps:

- Open or create your VB Project.
- Right-click the Toolbox and select *Components* from the menu.
- Select *TBarCode OCX 11 Type Library* from the list (Insertable Objects) and confirm with *OK*.
- Now you can use **TBarCode** as VB Control (it is shown in the Toolbox).
- Set the characteristics of the barcode in the VB properties window (*"Properties TBarCode101"*).
- In case, you prefer the **TBarCode** "Property Pages" (instead of the VB properties window), right-click the object and select *Properties* from the pop-up menu.

5.2 Microsoft Visual C++

5.2.1 MFC Applications

In order to use **TBarCode OCX** in MFC, please follow these steps:

- Open or create your MFC based application.
- If you create a new project, make sure, that *ActiveX Controls* ① is checked (default) on page *"Advanced Features"* of the *"MFC Application Wizard"*.

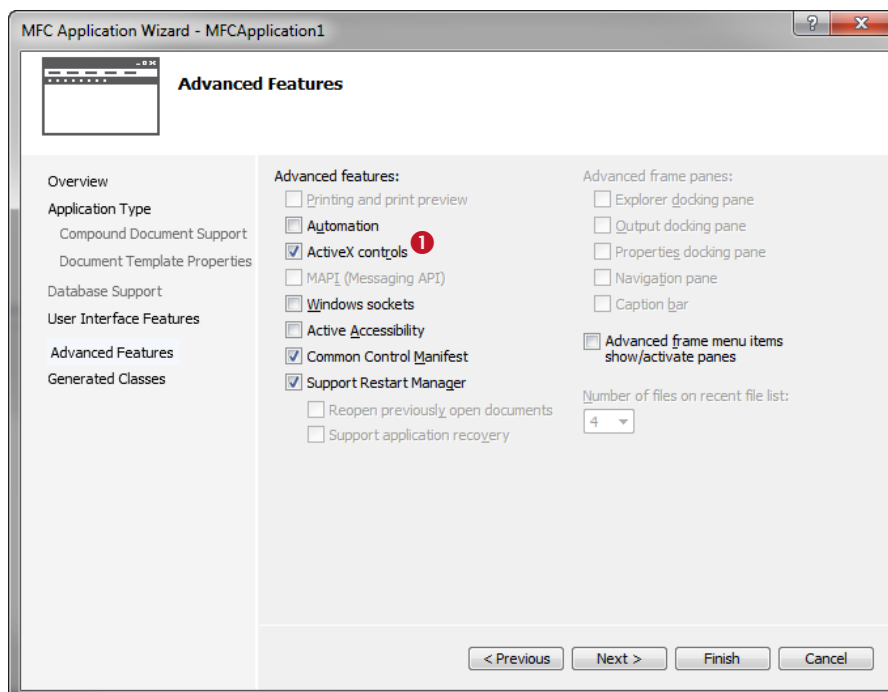


Figure 1: Use TBarCode in MSVC++ (MFC Application) (1)

- Open the Toolbox .
- Right-click *General* and select *Choose Items...*

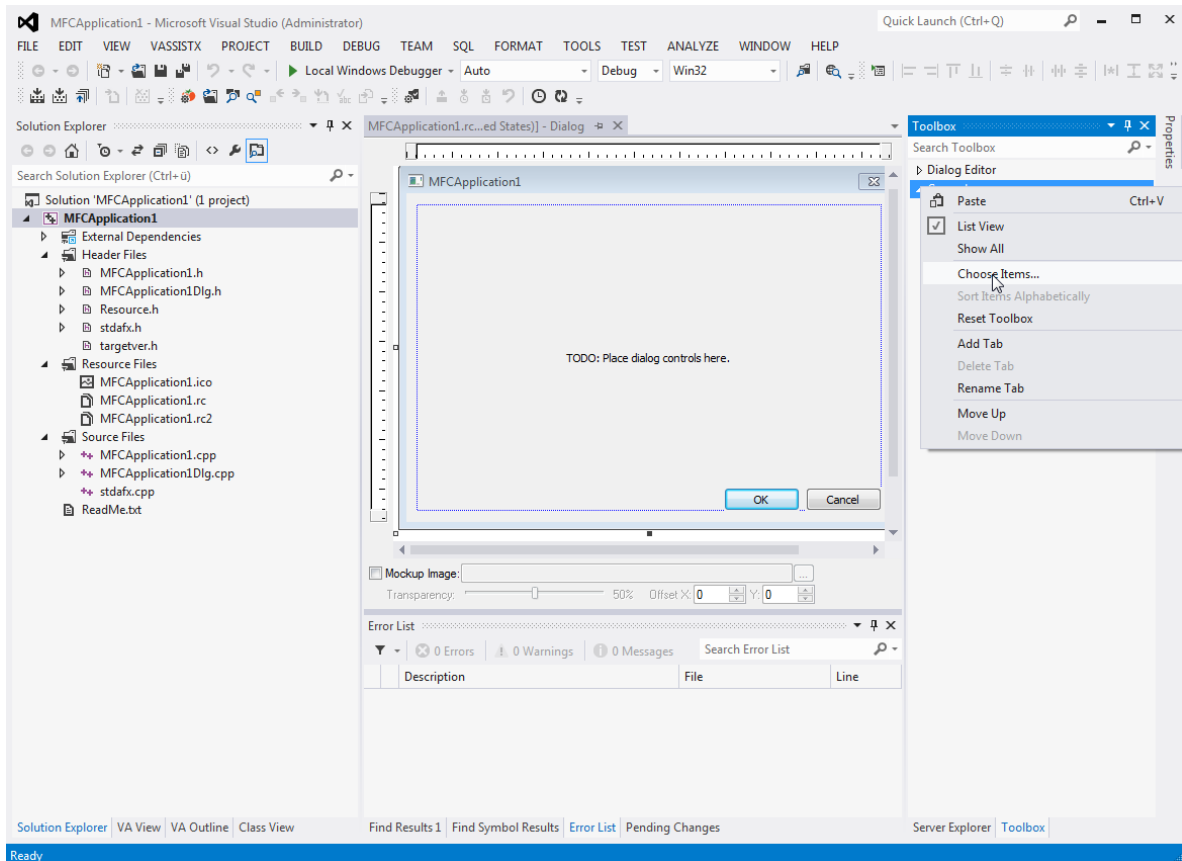


Figure 2: Use TBarCode in MSVC++ 6.0 (MFC Application) (2)

- In the **Choose Toolbox Items** go to page **COM Components**.
- Select **TBarCode11** from the list, make sure they are checked, and click **OK**.
- A wrapper class for **TBarCode OCX** is generated automatically (2). Click **OK** to confirm.

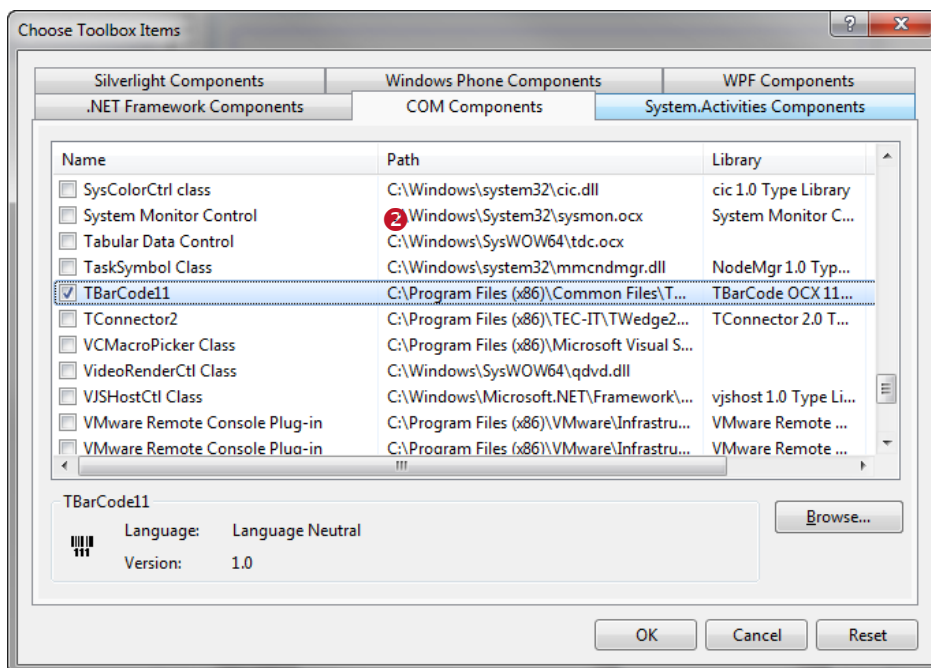


Figure 3: Use TBarCode in MSVC++ 6.0 (MFC Application) (3)

- The control is thereafter selectable in the control toolbox in the dialog editor (3).

- Work with the assistance of the *Class Wizard* if necessary.

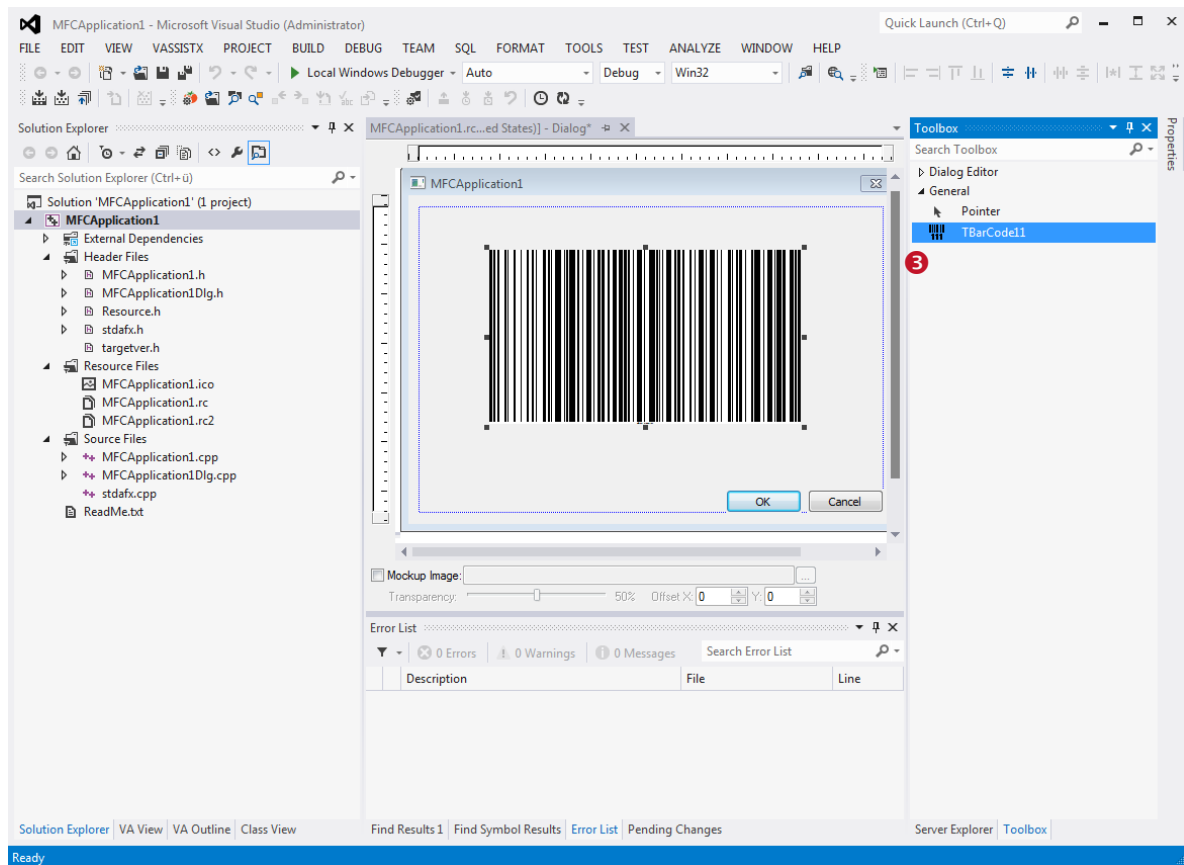


Figure 4: Using TBarCode in MSVC++ 6.0 (MFC Application) (4)

5.2.2 Non MFC Application

For non-MFC applications, we recommend to use **TBarCode DLL**.

5.3 Microsoft .NET

5.3.1 Use TBarCode OCX as Control

In order to use **TBarCode OCX** in Visual Studio .NET (e.g. in a “*Windows Forms Application*”), please follow these steps:

- Open or create a project.
- Right-click inside the Toolbox **1** and select *Choose Items....* A dialog appears.
- In the *Choose Toolbox Items* go to page *COM Components* **2**.
- Select *TBarCode11* **3** (check the checkbox).
- Confirm with *OK* (**4**).
- Now **TBarCode OCX** is added to the Toolbox (**5**).
- Drag the control from the Toolbox (**5**) to your form (**6**).

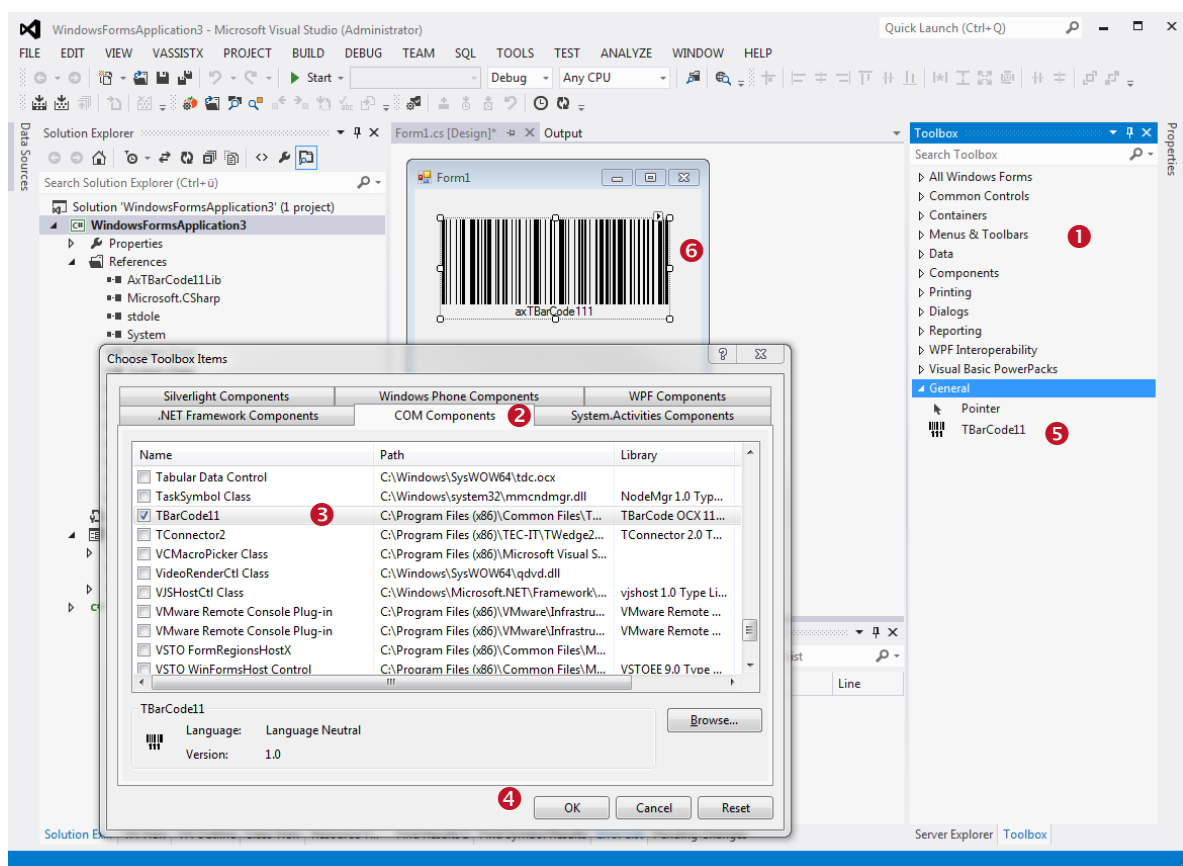


Figure 5: Using TBarCode in Visual Studio .Net 2005 (as Control)

Microsoft Visual Studio automatically generates a wrapper class for an existing ActiveX control. You can use it like any other control in .NET.

- Instead of using the ActiveX Control via the Interop wrapper, we recommend to use the TBarCode .NET Assembly, which is also part of the SDK.

5.3.2 Use TBarCode OCX as Library

In order to use **TBarCode** per code only (without embedding it as ActiveX control in a form), please follow these steps:

- Open or create a project.
- From the menu, select **Project ► Add Reference...**
- In the **Reference Manager** go to page **COM 1**.
- Select **TBarCode OCX** from the list and check it **2**.
- Confirm with **OK (3)**.
- Now **TBarCode11Lib** is added to the References of your Project (and can be found in the "Solution Explorer" Window **4**).
- The **TBarCode** class can now be used in your code.

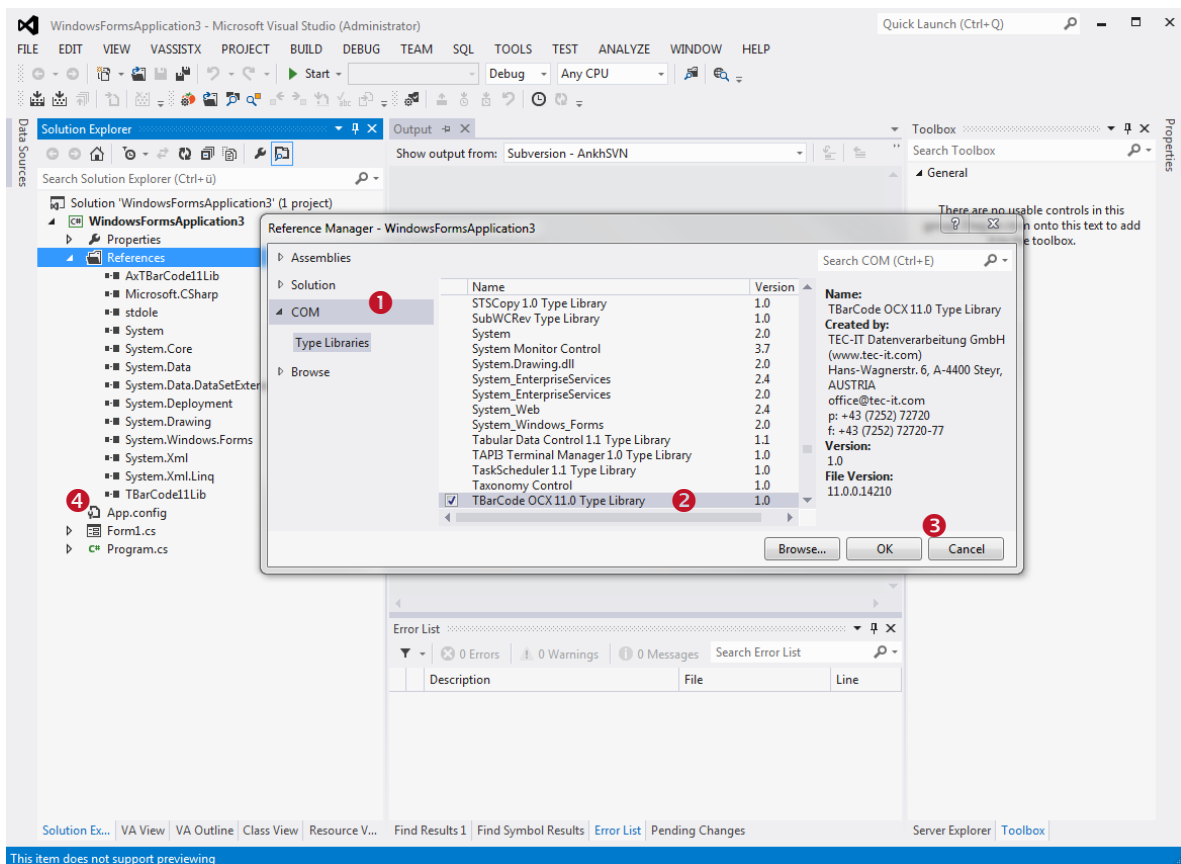


Figure 6: Using TBarCode in Visual Studio .Net 2003 (as Library)

Sample usage of the **TBarCode** class in C#:

```
TBarCode11Lib.TBarCode11Class obj = new TBarCode11Lib.TBarCode11Class();
obj.BarCode = TBarCode11Lib.tag BarCType.eBC 20F51L;
obj.Text = "12345";
```

- Instead of using the COM Class via the Interop wrapper, we recommend to use the TBarCode .NET Assembly, which is also part of the SDK.

5.4 Microsoft Visual FoxPro

5.4.1 Inserting TBarCode into a FoxPro-Project

In order to insert **TBarCode** in Visual FoxPro, please execute the following steps:

- Open or create a FoxPro Project.
- Open or create a Form.
- Select **OLE Container** from the Standard Toolbox.
- After drawing the outlet of the OLE container, an "Insert object" dialog is opened. Select **TBarCode** (Insert Control) and confirm with **OK**.
- The characteristics can be modified in the properties window.
- If you prefer the **TBarCode OCX** property pages, right-click the control and choose **Properties** from the pop-up menu.
- Within the Project Manager, you can add the newly created form to the project.

5.4.2 Reports & Labels

- There is a known incompatibility with TBarCode OCX V11 and Foxpro 9 ("Function ... invalid"). The last known version, which can be used with the code below is TBarCode SDK V9¹.

If you want to print barcodes in reports or labels, you need a table with a specific column, in which **TBarCode** must be stored as OLE Control (data type "general"). This data field must be initialized with the data structure of a barcode object before use. For this purpose, you need an instance of an OLE bound control as template (e.g. on a form, it may be invisible).

Example code for the initialization of the data fields of a barcode object:

```
FOR n = 1 TO 10
  INSERT INTO Table1 FROM MEMVAR
  APPEND GENERAL Table1.BC CLASS TBarCode9.TBarCode9
  WITH THISFORM.[Name of OLE bound control instance]
  .CONTROLSOURCE = "Table1.BC"
  .REFRESH
  .barcode = 20 && Barcode-Type = Code128
  .TEXT = "000070000041"
  .printdatatext = .T.
  .BACKCOLOR = 16777215
  .FORECOLOR = 0 && 16711680 -> (blue)
  .REFRESH
  ENDWITH
NEXT
```

After this code has been executed, an OLE Picture (ActiveX Bound Control) can be inserted into a Report or Label Form. In this sample, you have to specify "Table1.BC" as data source (field).

Please look at our FoxPro-Sample², which can be downloaded from <https://www.tec-it.com/Download>
► *TBarCode*.

¹ TBarCode V9 reached its end-of-life and is no longer supported with updates and bug fixes.

² The FoxPro Sample needs TBarCode OCX V9, which you can request from our support@tec-it.com

6 Microsoft ERP Systems

6.1 Microsoft Navision® / Dynamics® NAV

Under Navision **TBarCode OCX** cannot be inserted into a report directly. Therefore, you have to use the following workaround:

- Create or open a report and insert a *Picture Box*.
- Create a barcode image (per code) using the **TBarCode OCX** Control.
- Load the image to the *Picture Box*.

Sample code for creating a barcode image:

```
COM objBC; // this is com object instantiation
objBC = new COM("TBarCode11.TBarCode11.1"); // create class TBarCode11

objBC.Text = "121212" // set barcode data
objBC.Barcode = 20; // 20 ... use Code-128

objBC.SaveImage(DateinameBmp, 4, pxWidth, pxHeight, nXRes, nYRes); // 4 = eIMBmp (Bitmap)
```

To get a more detailed information, please look at our Navision Tutorial, which can be downloaded under <https://www.tec-it.com/Download> ► *TBarCode* or contact our technical support.

7 Borland Delphi / Borland C++ Builder

7.1 Using TBarCode OCX in Borland Delphi 6/7

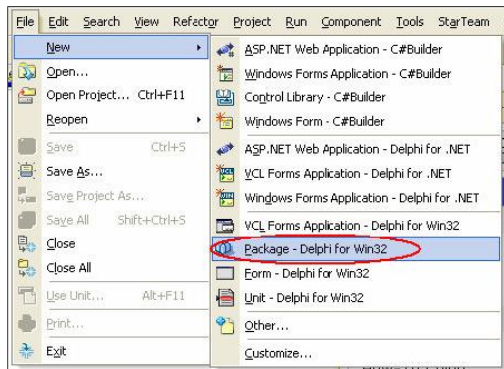
To insert **TBarCode OCX** in Delphi or Borland C++ Builder, please follow the steps described below:

- Select **Components ► Import ActiveX Control** from the menu.
- Select **TBarCode OCX Type Library** from the list.
- Click the **Install** button and confirm the following pop-up windows with **OK**. The **TBarCode** control can now be used like a standard component (Toolbar ActiveX).

7.2 Using TBarCode OCX in Borland Delphi 2005 (Delphi for Win32)

To insert **TBarCode OCX** in Delphi 2005, please follow these steps:

7.2.1 Create and Save a Package for TBarCode OCX



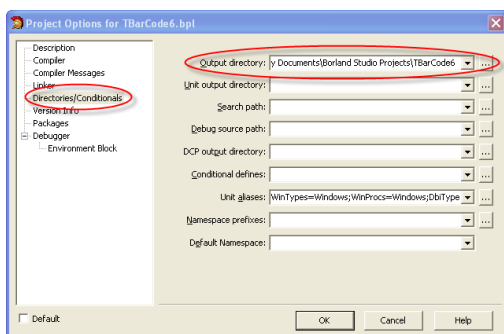
Create Package:

- Choose **File ► New ► Package – Delphi for Win32** from the menu.

Save Package:

- Choose **File ► Save All** from the menu.
- The **Save Package As** dialog will open.
- Choose the directory for saving the package. Hint: It is recommended to create a separate directory for the package.
- Then assign a name to package-project (e.g. **TBarCode11**).
- Confirm with **OK**.

7.2.2 Set the Project Options



- Choose **Project ► Options...** from the menu.
- The **Project Options Dialog** will open.

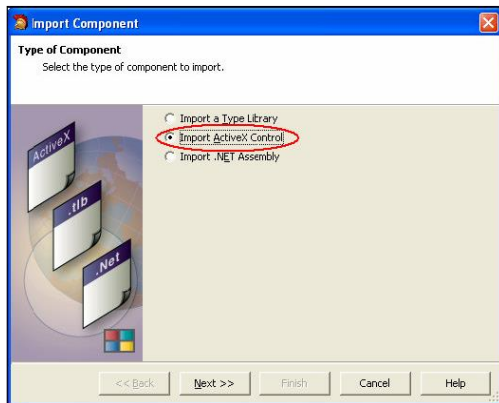
Description:

- Select **Description** in the tree on the left. The description text can be edited on the right.

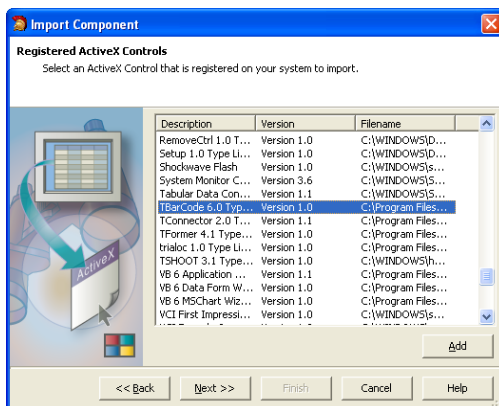
Output Directory:

- Select **Directories/Conditionals** in the tree on the left.
- Under **Output directory**, choose the directory where you have saved your project.
- Confirm with **OK**.

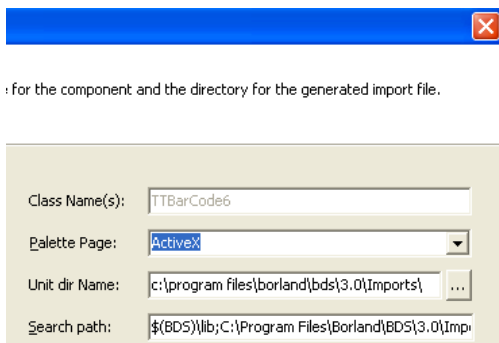
7.2.3 Import TBarCode Component



- Choose **Component ► Import Component...** from menu.
- The **Import Component** wizard will open.
- In the Wizard, choose **Import ActiveX Control**.
- Then click **Next**.



- Choose **TBarCode OCX** from the list.
- Click **Next**.

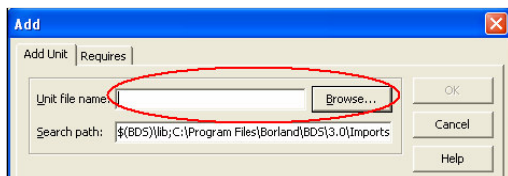


- On this page leave all default values.
- Click **Next**.



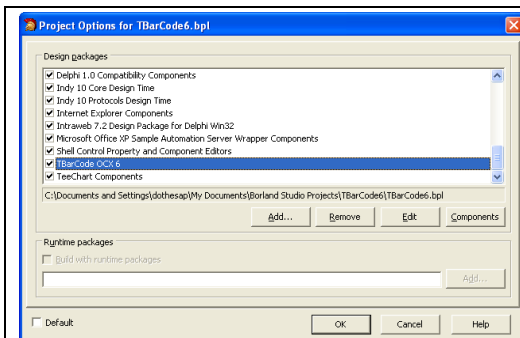
- This is the last page of the wizard.
- Choose **Create Unit**.
- Then click **Finish**.
- You will find **TBARCODE11Lib_TLB** in the main window of Delphi.
- Save this Unit in the same directory where the package-project is located.

7.2.4 Add Components to the Package



- Choose **Project ► Add to Project...** from the menu.
- The **Add** dialog will open.
- Select the **"Add Unit"** tab.
- Click **Browse** to look for **TBARCODE11Lib_TLB.PAS**.
- Click **OK** to add **TBarCode**.

7.2.5 Create and Install Package



Create the package:

- Select **Project ► Build <ProjectName>** from the menu.

Install the created Package:

- Select **Component ► Install Packages** from the menu.
- Click **Add**.
- Choose the created package (here **TBarCode6.BPL**) and click **Open**.
- The package (**TBarCode11 OCX**) is now listed in **Design Packages**.
- Click **OK** to finish the installation.

7.2.6 Create a new VCL Forms Application



- Choose **File ► New ► VCL Forms Application...** from the menu.
- In the **Tool Palette** you can find the new category **ActiveX**.
- **TBarCode OCX** was added in this category and is now ready to use.

7.3 Using TBarCode OCX in Borland Delphi 2010 or later

We recommend to use the TBarCode DLL instead of the OCX. For more details see the sample, which is included with the SDK setup:

```
C:\ProgramData\TEC-IT\TBarCode\11.x\Examples\Delphi\DLL\2010
```


8 Sybase PowerBuilder

8.1 TBarCode OCX in PowerBuilder DataWindow

In PowerBuilder³, the use of ActiveX controls (like **TBarCode OCX**) is not possible within so-called DataWindows if the control is bound to the band layer. TBarCode OCX does not cause this limitation.

To get dynamic “data driven” barcodes you have to use the following workaround.

Instead of placing the **TBarCode OCX** control inside the DataWindow, you have to insert it into the dialog Window. Thus, it can be programmed for our workaround as follows.

By using this control, you can create a bitmap file for each barcode, save it to disk and load it to a picture data field in the DataWindow. That has to be done for each data row/record set.

This workaround is described in detail in the following sections.

8.2 Insert TBarCode OCX

To insert **TBarCode OCX** into a PowerBuilder dialog window, please execute the following steps:

- Select **Controls ► OLE** from the menu.
- Select the page **Insert Control** from the tab (PowerBuilder 10).
- Select **TBarCode** from the list.
- If desired, change the properties in the context menu (OCX Properties).

- In PowerBuilder Version 7, 8, 9 and 10 always insert **TBarCode** with **Insert Control** because **Create New** does not work with scripting.

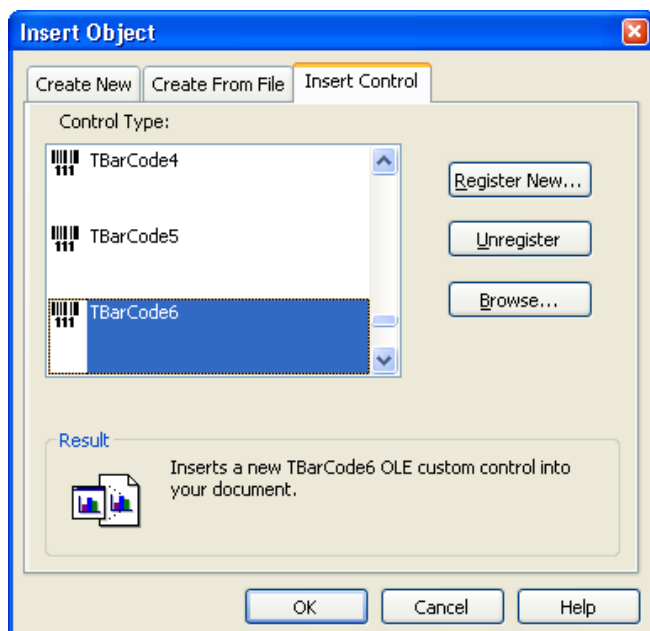


Figure 7: Inserting TBarCode in PowerBuilder

³ PowerBuilder version 7-10

8.3 Script the Control within PowerBuilder 10

In order to access the properties and methods of the ActiveX control you have to use the following syntax:

```
ControlName.Object.Property
```

Example:

```
ole_1.object.text = "hello"  
ole_1.object.barcode = 20          ' 20 = Code 128
```

- ▶ The barcode type (the symbology) is set by assigning a number to the barcode property. Please refer to the "Barcode Reference" (<https://www.tec-it.com> ▶ Support ▶ Knowledge Base) to learn more.

8.4 Generate Barcode Images for the DataWindow

8.4.1 Generate the Barcode Images (from the Dialog Window)

You need a **TBarCode OCX** object in your dialog window which can be programmed. In our sample, it is called "w_barcode_printing".

Open your source code. In the section where you prepare the data for the output you have to do something like the following to save the barcode images:

```
//Image path and filename  
ls_image = "C:\_APPS\FeeSystem\bcl.jpg"  
  
//Saves the barcode as a JPEG  
w_barcode_printing.ole_barcode.SaveImageEx (0, ls_image, 4, 100, 300, 80, 127, 127)
```

- ▶ Currently PowerBuilder only supports BMP, JPEG, and GIF. You cannot use the EMF file type.

With the *SetItem()* function you can finally assign the name of the generated barcode bitmap file to the column used in the DataWindow (*bc_pic*).

Using this approach will allow you to simulate the data binding inside the DataWindows.

8.4.2 Insert the Barcodes into your DataWindow

Inside your DataWindow, you have to create a column with a **STRING** data type. Here we use the name *bc_pic*. This column will contain the path and the name for each barcode bitmap file for each record. Then insert a column control for the created data field.

In the "General" properties of the column control, check the **DISPLAY AS PICTURE** box as shown below. This will make the control show the picture and not the filename inside the control frame.

For example, if the column contains the value "c:\picture.jpg", the control will display the picture and not the text "c:\picture.jpg".

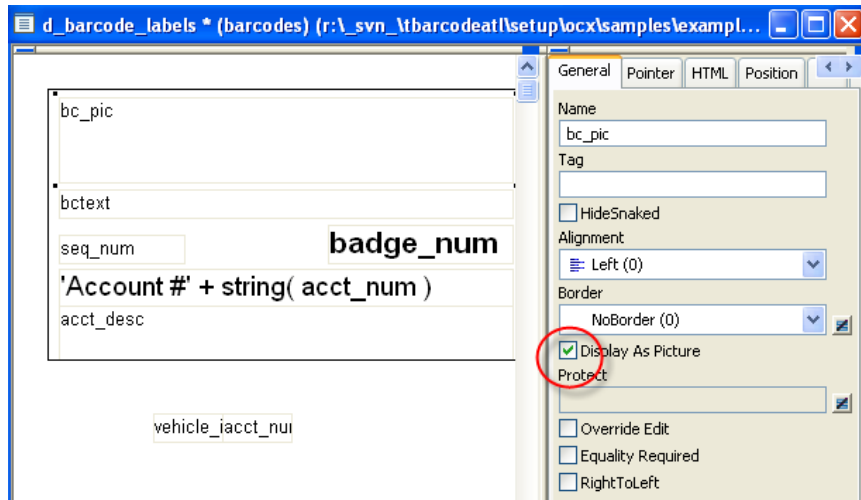


Figure 8: PowerBuilder DataWindow "Display As Picture"

Instead of using a column control you may also insert a computed field control and use the *BITMAP()* function:

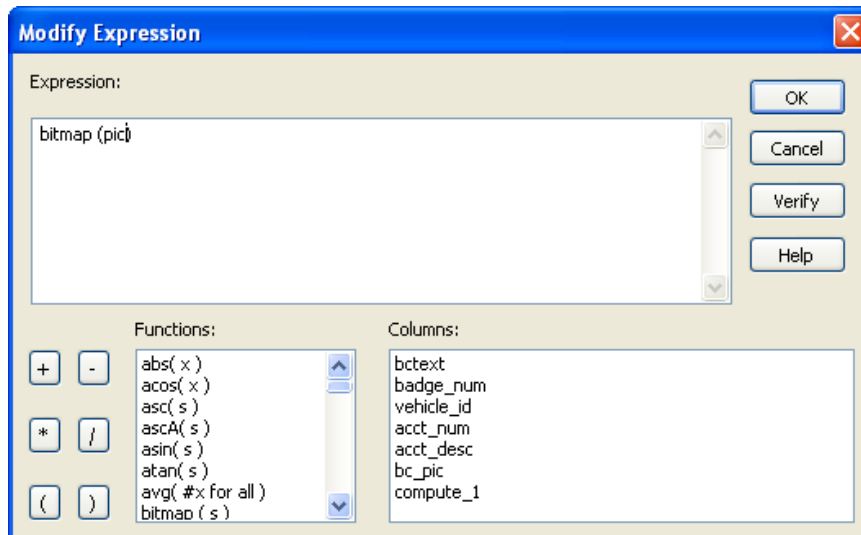


Figure 9: PowerBuilder DataWindow Bitmap function

9 Oracle Forms / Oracle Reports

9.1 Barcodes in Forms

In order to use **TBarCode OCX** in an Oracle Form please execute the following steps:

- Create a new form.
- In the layout editor:
 - a) Draw an ActiveX control.
 - b) Right-click with the mouse and select *Insert Object*.
 - c) Select *TBarCode*.
- Select *Menu ► Program OLE Importer* from the menu and import the control.

Optional:

- Create a button and add a *when-button-pressed* trigger on the canvas (where you can call the ActiveX control).
- Close the layout editor (This step is VERY IMPORTANT!).
- Run the form.
- Press the button to run the ActiveX control.

9.2 Barcodes in Reports

- Oracle Reports do not support ActiveX controls.

Workaround: The user can call an executable from within a report. For instance, you can generate barcode bitmaps with the TEC-IT products **Barcode Studio** or **TBarCode/X** that can be executed in command line mode (without a visible window). Afterwards the generated bitmap can be loaded into an image inside the report. Alternatively, you can load the barcodes via URL request from our Barcode Web Service into a report "on-the-fly".

Another possibility is to use the **TFORMer** product family (advanced label and form reporting tool).

Use **TFORMer Designer** to design your barcode label or report. Thereafter use **TFORMer Runtime** (or the command line tool *TFPrint.exe*) to generate and print the complete report. **TFORMer** supports direct printer output, PostScript, PDF and HTML output directly (without any additional software).

10 Redistributing TBarCode OCX

This chapter explains what is important when redistributing a custom application that uses the **TBarCode OCX** control.

- Please note that in most cases you need a developer license for re-distribution of **TBarCode OCX** (except for in-house applications that are bound to one or more sites).

10.1 Dependencies

An application that uses **TBarCode OCX** requires the following files:

- **TBarCode11.ocx**
This is the native Win32 ActiveX component. This file is mandatory.
- **TBarCode11_x64.ocx**
This is the native Win64 (x64) ActiveX component. This file is mandatory.
- **TBarCode11.dll**
This native Win32 library performs barcode generation. Required only for versions < 11.15.
- **TBarCode11_x64.dll**
This native Win64 library performs barcode generation. Required only for versions < 11.15.
- **zlib1.dll**
This is a 3rd-party library that performs data compression. This file is optional. It is only required, when data compression in barcodes is enabled.

These files are located in the folder *C:\Program Files\Common Files\TEC-IT\TBarCode\11.0* (or in the folder you have chosen during setup).

TBarCode OCX requires also the most actual **Microsoft Visual C++ Common Runtime DLLs**. See next section how to distribute them with your application.

10.2 Redistribution

When redistributing a custom application the files described above need to be redistributed together with the application. The DLLs should be located in the same folder as the executable.

Other files than those listed above must not be redistributed.

You may have to redistribute the most actual **Visual C++ runtime components** (for Visual Studio 2019 or newer) with your application and ensure they are installed on the target computer.

- You can install these components with the *Microsoft Visual C++ Redistributable Packages* available at
- <https://docs.microsoft.com/en-us/cpp/windows/latest-supported-vc-redist>
The package installs all required runtime DLLs.

Please contact TEC-IT Support if you need help.

11 Contact and Support Information

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Appendix A: FAQ

If you have questions not covered in these FAQ, you can also check our website <https://www.tec-it.com/FAQ> or contact our support team: <mailto:barcode@tec-it.com>.

A.1 How to Set a Specific Module Width (15 mils) in Web Applications?

Please refer to the "Barcode Reference" (<https://www.tec-it.com> ► Support ► Knowledge Base) for more information.

A.2 License TBarCode in my Application

Assume you got the following license key:

```
Product ID:    2022 (1D Barcodes in V11)
Licensee:      Barcode Inc.
License Kind:  2 (Site)
Licenses:      1
License-Key:   12A3B5C6
```

Now implement a call to the method *LicenseMe* before you draw a barcode (we suggest at startup of your application).

Example in Visual Basic (enumerators are used):

```
TBarCode111.LicenseMe "Barcode Inc.", eLicKindSite, 1, "12A3B5C6", eLicProd1D
```

The Product ID depends on the version of **TBarCode** (see your license data).

A.3 Clipped Barcode Image (SaveImage)

If the *ModuleWidth* property is set to a specific value, the barcode may be clipped because it does not fit into the image dimensions specified in *SaveImage*.

A.3.1 Solution

If you need a specific module width for your application (e.g. 3 pixels), use the number of barcode modules (*CountModules* property) and multiply this value with 3 (to get 1 module = 3 Pixels wide). Use this value as horizontal size of the image in *SaveImage*. Using this method, the image size will adapt automatically depending on number of horizontal barcode modules.

For 2D symbologies use *Get2DXCols* and *Get2DXRows* for finding the best horizontal and vertical size values.

A.4 Unreadable Barcodes with PrintForm (VB)

In Visual Basic, the form objects (like **TBarCode**) are rendered with (low) screen resolution and not with the (usually high) printer resolution. Therefore, the printed barcode may become unreadable.

To work around this problem, adjust the module width of the barcode to the resolution of the screen:

- This can be achieved by using the *CountModules* property.
- Or use the **TBarCode** property *OptResolution* = true

For details please see our Visual Basic Sample Code, which is installed together with the product setup. The samples contain also the PrintForm workaround to get a readable barcode.

A.5 Save MaxiCode with a Higher Resolution

You have to set the *ModuleWidth* property to a higher value (as it is by default) – and increase the values for XSize / YSize when saving the barcode.

Example:

```
FlName = "Maxicode.bmp"
TBarCode111.Text = "BarCodeText"
TBarCode111.BarCode = eBC_MAXICODE
'Use nRatio to enlarge or reduce image size
nRatio = 2
TBarCode111.ModuleWidth = 1500 * nRatio
DoEvents
YSize = 208 * nRatio
XSize = 215 * nRatio
TBarCode111.SaveImage "C:\Users\User\Documents\" & FlName, TBarCode11Lib.eIMBmp, XSize,
YSize, 72, 72
'Hint : When printing we recommend using the standardized size of MaxiCode
'Height: ~24,4 mms;
'Width : ~25,2 mms
```

A.6 SaveImage Does Not Work

Please check if you have write permissions to the directory you want to write to (e.g. important in web applications).

Please check if the internet zone was unlocked when using **TBarCode** OCX as part of a web page. See the *TBarCode OCX Developer Reference* for details.

A.7 Barcodes Created with SaveImage are Unreadable

Please refer to the "Barcode Reference" (<https://www.tec-it.com> ► Support ► Knowledge Base) for more information.

A.8 Additional FAQs on our Web Page

Please check out the FAQ on our web site <https://www.tec-it.com/support/faq/tbarcode/Default.aspx>.