

TBarCode OCX Barcode ActiveX® Control

Version 11

Developer Manual

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1 Content

1		Content	2
2		Disclaimer	3
3	3.1 3.2 3.3 3.4 3.5	Introduction What is TBarCode SDK? Security Notice What is TBarCode OCX? Scope of this Document Restrictions of the Demo Version	4 4 4 4 5
4	4.1 4.2	Installation Requirements Download and Setup	6 6 6
5	5.1 5.2 5.2.1 5.2.2 5.3 5.3.1 5.3.2 5.4 5.4.1 5.4.2	Microsoft Development Environments Microsoft Visual Basic 6 Microsoft Visual C++ MFC Applications Non MFC Application Microsoft .NET Use TBarCode OCX as Control Use TBarCode OCX as Library Microsoft Visual FoxPro Inserting TBarCode into a FoxPro-Project Reports & Labels	7 7 9 10 10 11 12 12
6	6.1	Microsoft ERP Systems Microsoft Navision [®] / Dynamics [®] NAV	13 13
7	7.1 7.2 7.2.1 7.2.2 7.2.3 7.2.4 7.2.5 7.2.6 7.3	Borland Delphi / Borland C++ Builder Using TBarCode OCX in Borland Delphi 6/7 Using TBarCode OCX in Borland Delphi 2005 (Delphi for Win32) Create and Save a Package for TBarCode OCX Set the Project Options Import TBarCode Component Add Components to the Package Create and Install Package Create a new VCL Forms Application Using TBarCode OCX in Borland Delphi 2010 or later	14 14 14 14 15 16 16 16
8	8.1 8.2 8.3 8.4 8.4.1 8.4.2	Sybase PowerBuilder TBarCode OCX in PowerBuilder DataWindow Insert TBarCode OCX Script the Control within PowerBuilder 10 Generate Barcode Images for the DataWindow Generate the Barcode Images (from the Dialog Window) Insert the Barcodes into your DataWindow	17 17 18 18 18 18
9	9.1 9.2	Oracle Forms / Oracle Reports Barcodes in Forms Barcodes in Reports	20 20 20
10) 10.1 10.2	Redistributing TBarCode OCX Dependencies Redistribution	21 21 21
11	I	Contact and Support Information	22
A	Ppendix A A.1 A.2 A.3 A.3.1 A.4 A.5 A.6 A.7 A.8	 FAQ How to Set a Specific Module Width (15 mils) in Web Applications? License TBarCode in my Application Clipped Barcode Image (SaveImage) Solution Unreadable Barcodes with PrintForm (VB) Save MaxiCode with a Higher Resolution SaveImage Does Not Work Barcodes Created with SaveImage are Unreadable Additional FAQs on our Web Page 	23 23 23 23 23 23 23 24 24 24 24 24





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Introduction 3

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.





Installation 4

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".

MFC Application Wizard - MFCApplication1					
Advanced	d Features				
Overview Application Type Compound Document Support Document Template Properties Database Support User Interface Features Advanced Features Generated Classes	Advanced features: Printing and print preview Automation Automation ActiveX controls ActiveX controls Active Accessibility Common Control Manifest Support Restart Manager Reopen previously open documents Support application recovery	Advanced frame panes: Explorer docking pane Qutput docking pane Properties docking pane Caption bar Advanced frame menu items show/activate panes Number of files on recent file list: 4			
	< Previous	Next > Finish	Cancel		

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

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



MFCApplication1 - Microsoft Visual Studio (Administrator) Quick Launch (Ctrl+Q) P □ × FILE EDIT VIEW VASSISTX PROJECT BUILD DEBUG TEAM SQL FORMAT TOOLS TEST ANALYZE WINDOW HELP Image:
FILE EDIT VIEW VASSISTX PROJECT BUILD DEBUG TEAM SQL FORMAT TOOLS TEST ANALYZE WINDOW HELP Image:
○ - ○ 階・留 単 『 ワ・ペ - ▶ Local Windows Debugg - Auto - Debug - Win32 - 月 色、 1 個 に コ 正 止 キ 中 中 主 困 工 器 ご ● ▲ 都 和 白 回 手 ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●
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Search Solution Explorer (Ctrl+ü)
a Solution 'MFCApplication1' (1 project)
Construction
External Dependencies Construction Show All
> MFCApplication1.h - Choose Items
MFCApplication1Dlg.h
B Resource.h Reset Toolbox
P w staarch - Add Tab
A 🐔 Resource Files TODO: Place dialog controls here. Delete Tab
AFCApplication1.ico
D MECApplication1.rc - D MECApplication1.rc -
more preconstruct Move Down
** MFCApplication1.cpp
** MFCApplication1Dlg.cpp
•• stantctpp Cancel
· · · · · · · · · · · · · · · · · · ·
4
Mockup Image:
Transparency: 50% Offset X: 0 👘 Y: 0
Error List 📃 🗸 🕂 🗙
🔻 - 😵 0 Errors 🕼 0 Warnings 🕕 0 Messages Search Error List 🔎 -
Description File Line
Solution Explorer VA View VA Outline Class View Find Results 1 Find Symbol Results Error List Pending Changes Server Explorer Toolbox

TECHT TBarCode OCX Developer Manual

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.

Silverlight Components	Windows Phone Component	s	WPF Components	
.NET Framework Components	COM Components	Sys	tem.Activities Components	
Name	Path		Library	
SysColorCtrl class	C:\Windows\system32\cic.dl	I	cic 1.0 Type Library	
System Monitor Control	Windows\System32\sysm	on.ocx	System Monitor C	
Tabular Data Control	C:\Windows\SysWOW64\tdo	.ocx		
TaskSymbol Class	C:\Windows\system32\mmo	ndmgr.dll	NodeMgr 1.0 Typ	
☑ TBarCode11	C:\Program Files (x86)\Comr	non Files\`	T TBarCode OCX 11	
TConnector2	C:\Program Files (x86)\TEC-I	T\TWedge	2 TConnector 2.0 T	
VCMacroPicker Class	C:\Program Files (x86)\Micro	soft Visual	I S	
VideoRenderCtl Class	C:\Windows\SysWOW64\qdv	vd.dll		
VJSHostCtl Class	C:\Windows\Microsoft.NET\	C:\Windows\Microsoft.NET\Framework\		Ŀ
VMware Remote Console Plug-in	C:\Program Files (x86)\VMwa	C:\Program Files (x86)\VMware\Infrastru		
✓ VMware Remote Console Plug-in	C:\Program Files (x86)\VMwa III	are\Infrastr	ru VMware Remote	
TBarCode11 Language: Language Neutra Version: 1.0	31		<u>B</u> rowse.	
				_

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

• The control is thereafter selectable in the control toolbox in the dialog editor (6).





• 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 (6).
- Drag the control from the Toolbox (S) to your form (G).



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.





Use TBarCode OCX as Library 5.3.2

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 $OK(\mathbf{S})$.
- 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_20F5IL;
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



Microsoft ERP Systems 6

Microsoft Navision® / Dynamics® NAV 6.1

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.





Borland Delphi / Borland C++ Builder 7

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).

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

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

7.2.1 Create and Save a Package for TBarCode OCX



7.2.2 Set the Project Options



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.
- 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



🗿 Import Component				×		
Registered ActiveX Controls Select an ActiveX Control that is registered on your system to import.						
	Description	Version	Filename	~		
	RemoveCtrl 1.0 T Setup 1.0 Type Li Shockwave Flash System Monitor C Tabular Data Con Tearcade 6.0 Type. TConnector 2.0 T TFormer 4.1 Type TrisHOOT 3.1 Type VB 6 Application VB 6 Application VB 6 bata Form W VCI First Impressi	Version 1.0 Version 1.0 Version 1.0 Version 3.6 Version 1.1 Version 1.1 Version 1.0 Version 1.0 Version 1.0 Version 1.0 Version 1.1 Version 1.0 Version 1.0 Version 1.0	C:\WINDOWS[D C:\WINDOWS[D C:\WINDOWS[S C:\WINDOWS[S C:\WINDOWS[S C:\Program Files C:\Program Files			
			Add			
<< <u>B</u> ad	<u>N</u> ext >>	Finish	Cancel Help			

		×			
for the component and the directory for the generated import file.					
Class Name(s):	TTBarCode6				
Palette Page:	ActiveX				
Unit dir Name:	c:\program files\borland\bds\3.0\Imports\				
Search path:	\$(BDS)\lib;C:\Program Files\Borland\BDS\3.0\Imp				

nstall Chocse to create a u	nit or add to the existing package.
B	Create Unit ← Add unit to TBarCode5.bdsproj project

- 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

Project Options for TBarCode6.bpl Design_gad.ops Optimised on the second	Create the package: ■ Select <i>Project</i> ► <i>Build</i> < <i>ProjectName</i> > from the menu.
Selic Control Property and Component Editors Tex-Chart Components Collocuments and Settings(dothesap)My Documents/Borland Studio Projects(TBarCodes)EBarC	 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 (<i>TBarCode11 OCX</i>) is now listed in <i>Design Packages</i>. Click <i>OK</i> to finish the installation.

7.2.6 Create a new VCL Forms Application

Tool Palette Categories Isstandard Isstandard </th <th> Choose <i>File</i> New VCL Forms <i>Application</i> from the menu. In the <i>Tool Palette</i> you can find the new category <i>ActiveX</i>. TBarCode OCX was added in this category and is now ready to use. </th>	 Choose <i>File</i> New VCL Forms <i>Application</i> from the menu. In the <i>Tool Palette</i> you can find the new category <i>ActiveX</i>. 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





Sybase PowerBuilder 8

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.

Insert TBarCode OCX 8.2

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" (<u>https://www.tec-it.com</u> ► 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\bc1.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".





TECTT TBarCode OCX Developer Manual

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:

Modify Expression		×
Expression:	ОК	
bitmap (picį)	Cance	el
	Verify	y
	Нер	
Functions:	Columns:	
+ - abs(x)	bctext badge_num	
asc(s) * / ascA(s) asin(s)	acct_num	
() atan(s) avg(#x for all) bitmap(s) ✔	bc_pic compute_1	

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 performed

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
- <u>https://docs.microsoft.com/en-us/cpp/windows/latest-supported-vc-redist</u>
 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 <u>https://www.tec-it.com/FAQ</u> or contact our support team: <u>mailto:barcode@tec-it.com</u>.

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

Please refer to the "Barcode Reference" (<u>https://www.tec-it.com</u> ► 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", eLicProdID

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"
TBarCodel11.Text = "BarCodeText"
TBarCodel11.BarCode = eBC_MAXICODE
'Use nRatio to enlarge or reduce image size
nRatio = 2
TBarCodel11.ModuleWidth = 1500 * nRatio
DoEvents
YSize = 208 * nRatio
XSize = 215 * nRatio
TBarCodel11.SaveImage "C:\Users\User\Documents\" & FlName, TBarCodel1Lib.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" (<u>https://www.tec-it.com</u> ► Support ► Knowledge Base) for more information.

A.8 Additional FAQs on our Web Page

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

