

TBarCode .NET Barcodes in MS SQL Reporting Services

Version 1.0

Printing Barcodes with MS SQL Reporting Services

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Before Starting 4

4.1 MS SQL Reporting Services and TBarCode .NET

In the following Sample we will create a Reporting Services report with integrated barcode image using TBarCode .NET and Visual Studio .NET 2008

Basically you need to install TBarCode OCX/DLL/.NET on your system. You can download a free evaluation version of TBarCode directly from our web site:

http://www.tec-it.com

Additional you need the following applications installed:

- Microsoft SQL Server Reporting Services .
- Microsoft .NET Framework 1.1 or higher
- Microsoft Visual Studio .NET 2008 .





Sample 5

5.1 Creating the Reporting Project

• Open Visual Studio .NET 2008 and create a new report project

New Project									
Project types:		Templates:	[.NET Framework 3.5					
 → Visual Basic → Web → Smart Devi → Office → Database → Reporting → Test → WCF → WCF → Workflow ◆ Visual C# ◆ Visual C++ ◆ Other Project 1 ◆ Test Projects 	ce Types	Visual Studio installed templates Reports Application My Templates Search Online Templates							
A project for creati	A project for creating an application with a Windows user interface and a Report (.NET Framework 3.5)								
Name:	TBarCode_Reportin	gServices							
Location:	C:\Documents and S	Settings\My Documents\Visual Studio 2008\Projects 🛛 🛛 Browse							
Solution Name:	TBarCode_Reportin	gServices	Create director	y for solution					
			Add to Subversi	ion					
				ОК	Cancel				

- In the project wizard choose your database connection (in the sample the Northwind database is used).
- Open the automatically generated "Report1.rdlc" and design your report as you want.
- Insert an image object into your report at the position where you want to create the barcode in.

😚 TBarCodeReport - Microsoft Visual Studio																				
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5.2 Creating the Barcode

In this step we'll create the barcode. This sample creates a Code 128 barcode, but with TBarCode you're able to create over 100 different barcode types. A list of all supported barcode symbologies is available here: Barcode symbologies supported by TBarCode

5.2.1 Steps needed to create the barcode:

Open the Report1.rdlc in Visual Studio .NET 2008. In the menu select Report → Report . Properties...



- Open the References tab and add the following references:
 - TECIT.TBarCode
 - System.Drawing
 - System.Windows.Forms

🖀 Report Properties 🛛 🔀									
Ger	neral Layout Code References Data Output								
F	References:								
ſ	Assembly name								
	System.Drawing, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a	\mathbf{X}							
	TECIT.TBarCode, Version=9.3.1.0, Culture=neutral, PublicKeyToken=1b5f4306b234b83d								
	System.Windows.Forms, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089								
	*								
	Classes:								
Ιſ	Class name Instance name								
	TECIT.TBarCode.Barcode TBarCode								
	*								
OK Cancel Help									

Now you have to create an instance of TBarCode. Therefore add the following Class name:

TEC-IT.TBarCode.Barcode

For the Instance name you use:

TBarCode



In the next step you have to open the Code tab. Enter the function as specified below. The basic principle is to generate a barcode stream which is than shown in the image object.

FC-|T

```
Public Function CreateBarcode (ByVal code As String) As Byte()
       Dim nSize As System.Drawing.Size
       Dim byteArray As Byte()
      Dim stream As New System.IO.MemoryStream()
      ' Set the barcode data to encode
      TBarCode.Data = code
      ' Set the barcode symbology
      TBarCode.BarcodeType = TECIT.TBarCode.BarcodeType.Code128
      ' Set the size of the bounding rectangle of TBarCode
      nSize = TBarCode.CalculateOptimalBitmapSize(Nothing, 1, 1)
      TBarCode.BoundingRectangle = New System.Drawing.Rectangle(0, 0,
                             nSize.Width, nSize.Height)
      ' Create the barcode image
      TBarCode.DrawBitmap(nSize.Width, nSize.Height).Save(stream,
                              System.Drawing.Imaging.ImageFormat.Bmp)
       ' Set the stream position to the beginning of the stream.
       stream.Seek(0, System.IO.SeekOrigin.Begin)
       ' Read all Bytes from the stream.
      byteArray = New Byte(CType(stream.Length, Integer)) {}
      stream.Read(byteArray, 0, stream.Length)
      Return byteArray
  End Function
🚰 Report Properties
```

- General Layout Code References Data Output Custom code: Public Function CreateBarcode(ByVal code As String) As Byte() Dim nSize As System.Drawing.Size Dim byteArray As Byte() Dim stream As New System.IO.MemoryStream() ' Set the barcode data to encode TBarCode.Data = code 'Set the barcode symbology TBarCode.BarcodeType = TECIT.TBarCode.BarcodeType.Code128 'Set the size of the bounding rectangle of TBarCode nSize = TBarCode.CalculateOptimalBitmapSize(Nothing, 1, 1) TBarCode.BoundingRectangle = New System.Drawing.Rectangle(0, 0, nSize.Width,_ nSize.Height) ⁷Create the barcode image TBarCode.DrawBitmap(nSize.Width, nSize.Height).Save(stream, _ OK Cancel ٦ Help Г
- To use the specified assemblies you have to trust them. Therefore open the *Form* which was created with the project. Open this form in the *Code View* and add a *Load* function with the following lines:

```
Me.ReportViewer1.LocalReport.ExecuteReportInCurrentAppDomain(AppDomain.CurrentDomain.Evid
ence)
Me.ReportViewer1.LocalReport.AddTrustedCodeModuleInCurrentAppDomain("TECIT.TBarCode,
Version=9.3.1.0, Culture=neutral, PublicKeyToken=1b5f4306b234b83d")
Me.ReportViewer1.LocalReport.AddTrustedCodeModuleInCurrentAppDomain("System.Drawing,
Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f1ld50a3a")
Me.ReportViewer1.LocalReport.AddTrustedCodeModuleInCurrentAppDomain("System.Windows.Forms
, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b77a5c561934e089")
```

 Finally you have to change the settings of the image object in the report. Set the Source property to **Database** and the Value property to call the CreateBarcode.

For example: =Code.CreateBarcode(Fields!LastName.Value.ToString())





Contact and Support Information 6

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