



**TEC-IT**

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# TBarCode .NET

## Barcodes in MS SQL Reporting Services

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Version 1.0.1

### Printing Barcodes with MS SQL Reporting Services

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## 4 Before Starting

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### 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 SDK on your system. You can download a free evaluation version of TBarCode directly from our web site:

<http://www.tec-it.com/download/tbarcode/windows/Download.aspx>

From the SDK we will use the TBarCode .NET component.

Additional you need the following applications installed:

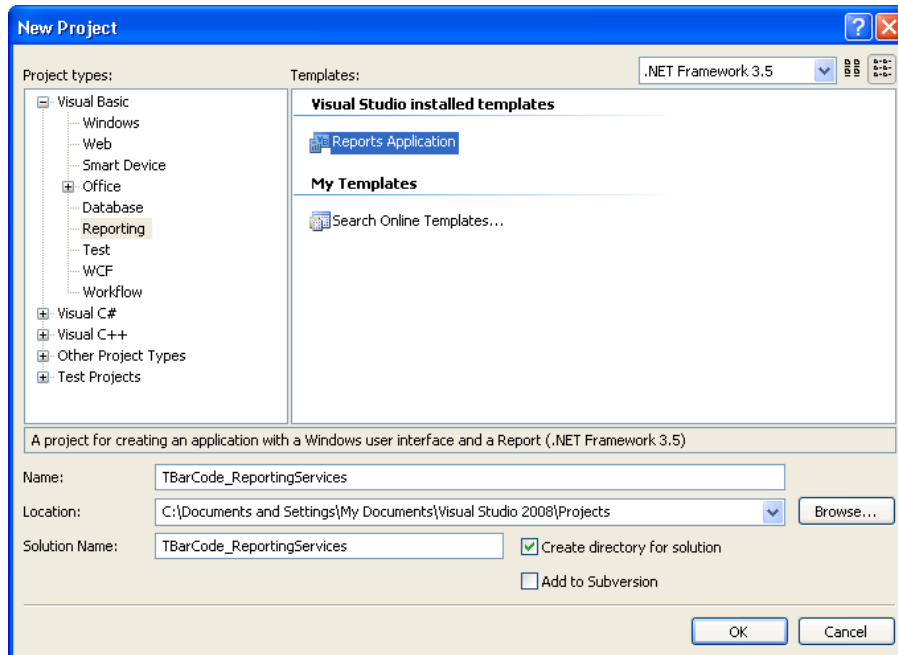
- Microsoft SQL Server – Reporting Services
- Microsoft .NET Framework 3.5 or higher
- Microsoft Visual Studio .NET 2008



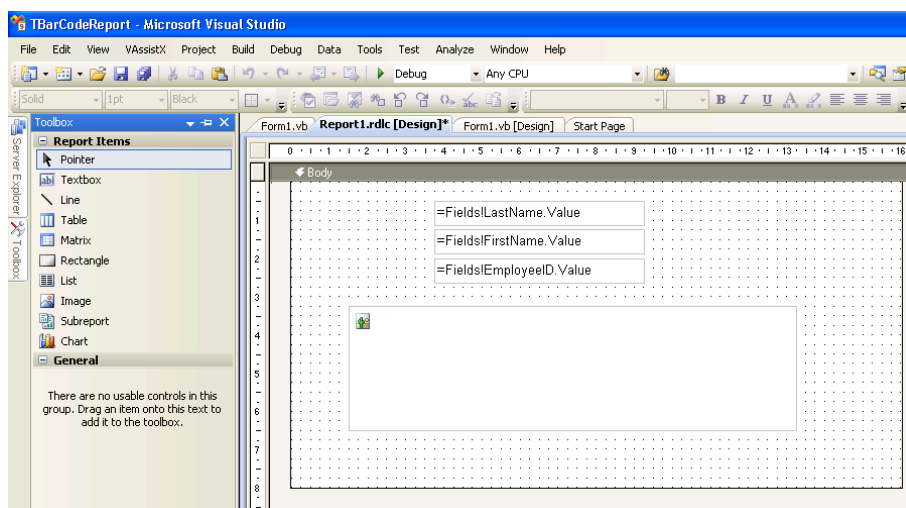
## 5 Sample

### 5.1 Creating the Reporting Project

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



- 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.

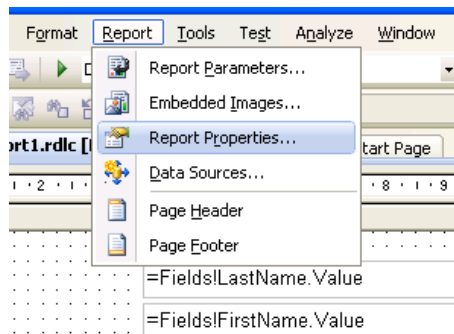


## 5.2 Creating the Barcode

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](#)

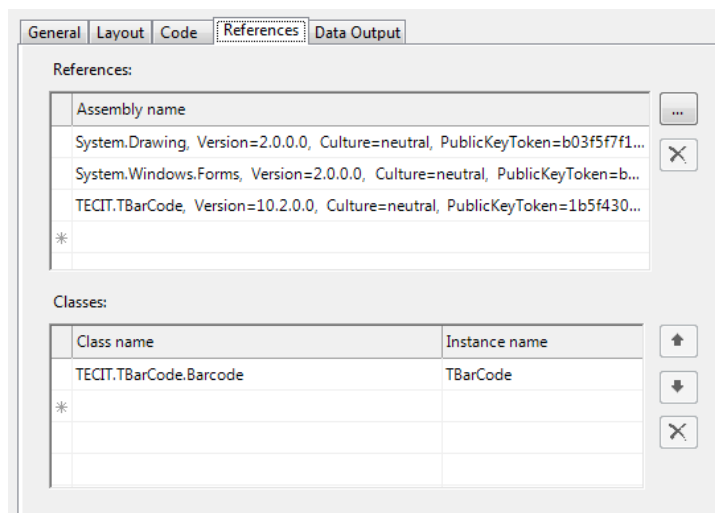
### 5.2.1 Steps needed to create the barcode:

- 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



- 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 then shown in the image object.

```
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 initial default size
    TBarCode.BoundingBox = New System.Drawing.Rectangle (0, 0, 200, 150)

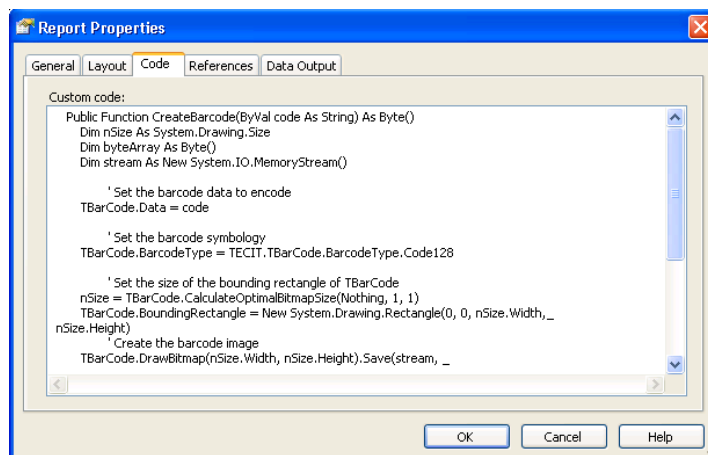
    ' calculate pixel accurate width (for screen resolution)
    nSize = TBarCode.CalculateOptimalBitmapSize(Nothing, 1, 1)
    TBarCode.BoundingBox = New System.Drawing.Rectangle(0, 0, _
        nSize.Width, nSize.Height)

    ' Create the barcode image (BMP) and write to stream
    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
```



- 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.Evidence)
Me.ReportViewer1.LocalReport.AddTrustedCodeModuleInCurrentAppDomain("TECIT.TBarCode, Version=10.2.0.0, Culture=neutral, PublicKeyToken=1b5f4306b234b83d")
Me.ReportViewer1.LocalReport.AddTrustedCodeModuleInCurrentAppDomain("System.Drawing, Version=2.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a")
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())
```



## 6 Contact and Support Information

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