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# TBarCode OCX

## Using TBarCode OCX in Navision

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Version 9.0

### Navision Tutorial

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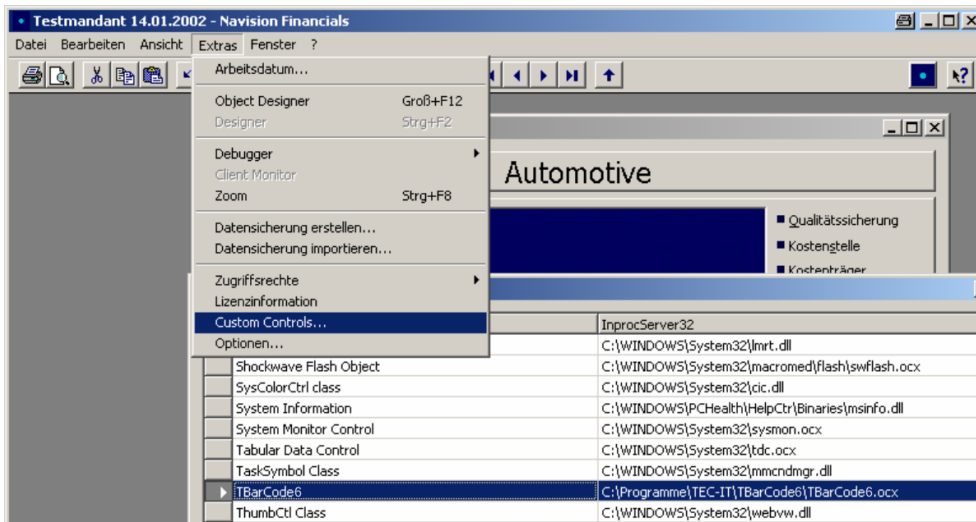
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## 2 Deploying TBarCode OCX into Navision Reports

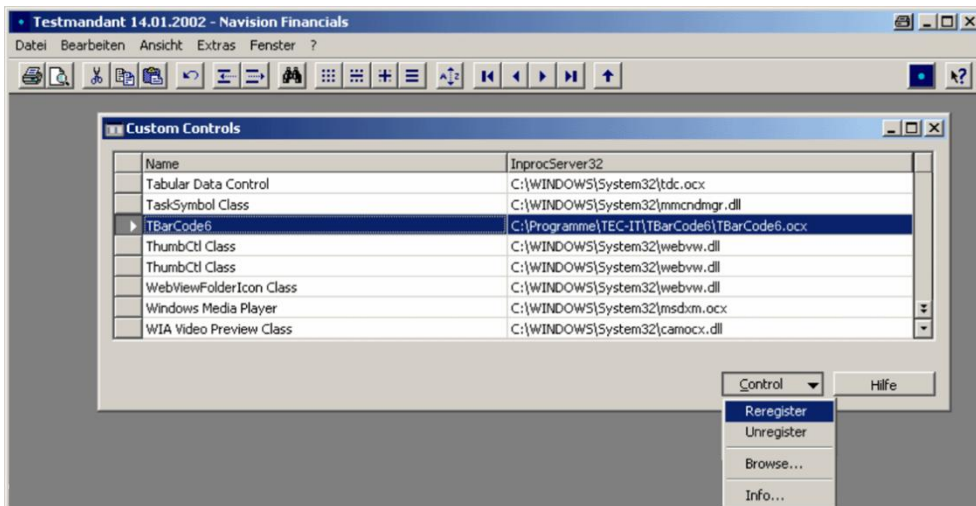
Note: the descriptive text in this documentation is in English but the field names are in German (due to the German source) – please contact our [support@tec-it.com](mailto:support@tec-it.com) if you have questions...

### 2.1 Insert TBarCode

Within Navision use Custom Controls to insert **TBarCode OCX**<sup>1</sup>:



Search for **TBarCode9 OCX** and Reregister<sup>2</sup> (optional - but can help in case of troubles):

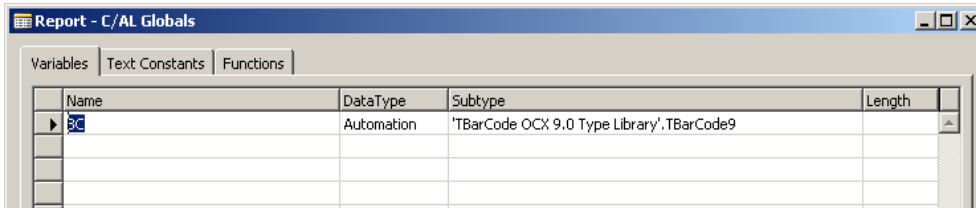


<sup>1</sup> The screen shot contains an earlier version of TBarCode (file name should be TBarCode9.ocx)

<sup>2</sup> The screen shot contains an earlier version of TBarCode (name should be TBarCode9)

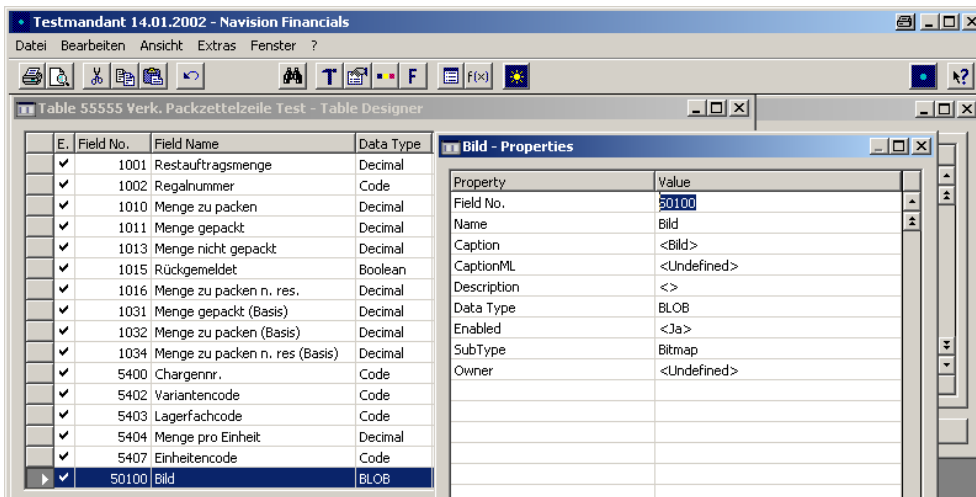
Add a global variable of data type *automation* with subtype *'TBarCode OCX 9.0 Type Library'.TBarCode9*.

Make sure that the sub class is *TBarCode9* as shown in the screen shot.

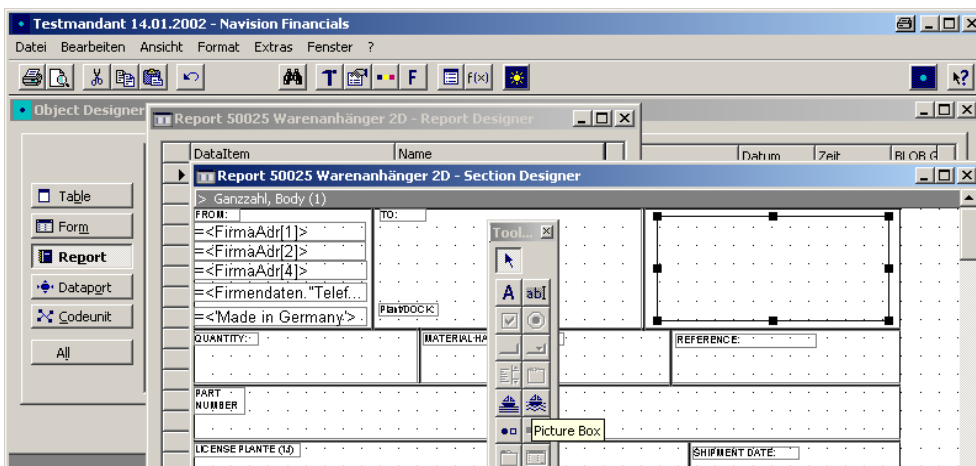


## 2.2 Table and Report Configuration

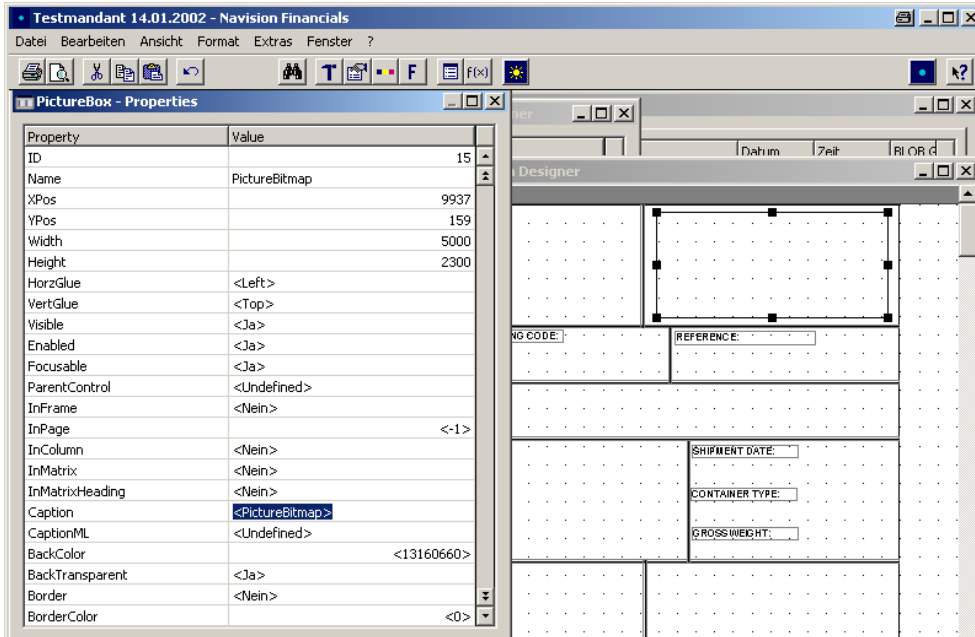
First we need a table field, which acts as source for the barcode image. Add a field of data type *"BLOB"* and SubType *"Bitmap"*. The bitmap will be generated dynamically afterwards.



The barcode is insert into the report through a Picture Box. Create a report and insert a field as Picture Box:



The properties of this field will be set as follows:



The source for the PictureBox must be the BLOB data field we have added above. For the property *"SourceExpr."* enter the source in the format *TableName.FieldName*

In our sample we use:

```
"Verk. Packzettelzeile".Bild

Tablename .... "Verk. Packzettelzeile"
Field name ... "Anzahl pro Paket"
Field name ... "Verk. Packzettelzeile"."Nr."
```

## 2.3 Program Code

The barcode is generated dynamically during runtime of the report in *OnAfterGetRecord()*

### 2.3.1.1 Create Barcode Object

```
OnInitReport()
CREATE (BC); // create TBarcode object instance
```

### 2.3.1.2 Generate Barcode, Update Picture Box

```
OnAfterGetRecord()

// generate bar code bitmap file (function definition see below)

CreateBarcodeBitmap;

// load generated bar code image to the picture object in the report
// Syntax: TableName.ImageFieldName.IMPORT(BarcodeImagePath,FALSE);
// Syntax: TableName.CALCFIELDS(ImageFieldName);
// in our sample this would look as follows:
// (the path to the temporary bitmap file is stored in the global variable FileNameBmp)

"Verk. Packzettelzeile".Bild.IMPORT(FileNameBmp,FALSE);
"Verk. Packzettelzeile".CALCFIELDS(Bild);
```

### 2.3.1.3 Create Barcode Bitmap Function

```

CreateBarcodeBitmap()

// set temp file name

FileNameBmp      := 'C:\Windows\Temp\TecItBitmap.bmp';
BC.Refresh;

// create linear (1D) barcode of type Code 128

BC.BarCode       := 20;           // set bar code type to Code 128
BC.EscapeSequences := TRUE;       // decode Escape sequences in input data
BC.Text          := TA;           // set bar code data
// get optimum bar code width (Pixels) for linear code types
pxWidth          := BC.CountModules;
pxHeight         := 96;           // height in Pixels (96 = 23.81 mm)

// create 2D barcode of type PDF417

BC.BarCode       := 55;           // set bar code type to PDF417
BC.EscapeSequences := TRUE;       // decode Escape sequences in input data
BC.Text          := TA;           // set bar code data
// get optimum bar code width (Pixels) for PDF417 code types
pxWidth          := ROUND( ( BC.CountModules / BC.CountRows ),1,'<');
pxHeight         := ROUND( ( 3 * BC.CountRows ),1,'<');

// adjust horizontal, vertical resolution in DPI

nXRes := 96;
nYRes := 96;

// save bar code to bitmap file (BMP format)

BC.SaveImage(FileNameBmp, 0, pxWidth, pxHeight, nXRes, nYRes);

```

### 2.3.1.4 Clear Blob field

```

OnPostDataItem()
CLEAR("Verk. Packzettelzeile".Bild);

```

### 2.3.1.5 Delete Barcode Object

```

OnPostReport()
CLEAR(BC); // delete TBarcode object instance

```

### 2.3.1.6 Format PDF417 Barcode Data (optional)

```

// pre format bar code data (optional)

FormatBarcodeData ()
CLEAR(TA); // TA = the bar code data string (which is formatted)
TA := TA + '['>';
TA := TA + '\x1E'; // 030 = RS
TA := TA + '06';
TA := TA + '\x1D'; // 029 = GS
TA := TA + 'P';
TA := TA + "Verk. Packzettelzeile"."Nr."; // article #
TA := TA + '\x1D'; // 029 = GS
TA := TA + 'Q';
TA := TA + FORMAT("Verk. Packzettelzeile"."Anzahl pro Paket"); // Menge
TA := TA + '\x1D'; // 029 = GS...
TA := TA + '10GT'; // Gross Weight
TA := TA + '\x1E'; // 030 = RS
TA := TA + '\x04'; // 004 = EOT

```

## 3 Contact and Support Information

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Many thanks to Mr. Klein / Wielpütz / <http://www.wielpuetz.de> for his source code and print screens.

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