

## How to print with crystal reports in Visual Basic 6 and ByteScout Barcode SDK

The tutorial shows how to print with crystal reports in Visual Basic 6

Print with crystal reports is easy to implement in Visual Basic 6 if you use these source codes below. Want to print with crystal reports in your Visual Basic 6 app? ByteScout Barcode SDK is designed for it. ByteScout Barcode SDK is the robust library (Software Development Kit) that is designed for automatic generation of high-quality barcodes for printing, electronic documents and pdf. All popular barcode types are supported from Code 39 and Code 129 to QR Code, UPC, GS1, GS-128, Datamatrix, PDF417, Maxicode and many others. Provides support for full customization of fonts, colors, output and printing sizes. Special tools are included to verify output quality and printing quality. Can add generated barcode into new or existing documents, images and PDF.

This rich sample source code in Visual Basic 6 for ByteScout Barcode SDK includes the number of functions and options you should do calling the API to print with crystal reports. Follow the instructions from the scratch to work and copy the Visual Basic 6 code. You can use these Visual Basic 6 sample examples in one or many applications.

ByteScout Barcode SDK free trial version is available on our website. Visual Basic 6 and other programming languages are supported.

FOR MORE INFORMATION AND FREE TRIAL:

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Source Code Files:

## BarcodePrint.vbp

```
Type=Exe
Reference=*\\G{00020430-0000-0000-C000-000000000046}#2.0#0#C:\\Windows\\system32\\stdole2.t
Object={C4847593-972C-11D0-9567-00A0C9273C2A}#8.0#0; crviewer.dll
Reference=*\\G{2A75196C-D9EB-4129-B803-931327F72D5C}#2.8#0#C:\\Program Files\\Common Files
Reference=*\\G{B4741C00-45A6-11D1-ABEC-00A0C9274B91}#8.5#0#C:\\Program Files\\Seagate Sof
Reference=*\\G{420B2830-E718-11CF-893D-00A0C9054228}#1.0#0#C:\\Windows\\system32\\schrund
Form=Form1.frm
Module=Module1; Module1.bas
Form=Form2.frm
IconForm="Form1"
Startup="Form2"
HelpFile=""
ExeName32="BarcodePrint.exe"
Command32=""
Name="Project1"
HelpContextID="0"
CompatibleMode="0"
MajorVer=1
MinorVer=0
RevisionVer=0
AutoIncrementVer=0
ServerSupportFiles=0
CompilationType=0
OptimizationType=0
FavorPentiumPro(tm)=0
CodeViewDebugInfo=0
NoAliasing=0
BoundsCheck=0
OverflowCheck=0
FlPointCheck=0
FDIVCheck=0
UnroundedFP=0
StartMode=0
Unattended=0
Retained=0
ThreadPerObject=0
MaxNumberOfThreads=1
```

## Form1.frm

```
VERSION 5.00
Object = "{C4847593-972C-11D0-9567-00A0C9273C2A}#8.0#0"; "crviewer.dll"
Begin VB.Form Form1
```

```

Caption           = "Barcode Print Preview"
ClientHeight      = 8865
ClientLeft        = 120
ClientTop         = 450
ClientWidth       = 13890
LinkTopic         = "Form1"
ScaleHeight       = 8865
ScaleWidth        = 13890
StartupPosition   = 3  'Windows Default
WindowState        = 2  'Maximized
Begin VB.PictureBox PictureBox1
    AutoSize       = -1  'True
    Height         = 1695
    Left          = 2640
    ScaleHeight    = 1635
    ScaleWidth     = 11835
    TabIndex       = 2
    Top           = 7440
    Visible        = 0   'False
    Width         = 11895
End
Begin CRVIEWERLibCtl.CRViewer CRViewer1
    Height         = 6495
    Left          = 2520
    TabIndex       = 1
    Top           = 120
    Width         = 15975
    DisplayGroupTree= -1  'True
    DisplayToolbar = -1  'True
    EnableGroupTree = -1  'True
    EnableNavigationControls= -1  'True
    EnableStopButton= -1  'True
    EnablePrintButton= -1  'True
    EnableZoomControl= -1  'True
    EnableCloseButton= -1  'True
    EnableProgressControl= -1  'True
    EnableSearchControl= -1  'True
    EnableRefreshButton= -1  'True
    EnableDrillDown = -1  'True
    EnableAnimationControl= -1  'True
    EnableSelectExpertButton= 0   'False
    EnableToolbar   = -1  'True
    DisplayBorder   = -1  'True
    DisplayTabs     = -1  'True
    DisplayBackgroundEdge= -1  'True
    SelectionFormula= ""
    EnablePopupMenu = -1  'True
    EnableExportButton= 0   'False
    EnableSearchExpertButton= 0   'False
    EnableHelpButton= 0   'False
End
Begin VB.CommandButton Command2
    Caption        = "Generate Crystal Report"
    BeginProperty Font
        Name       = "Times New Roman"
        Size       = 14.25
        Charset    = 0
        Weight     = 700
        Underline  = 0   'False
        Italic     = 0   'False
    EndProperty

```

```

        Strikethrough = 0 'False
    EndProperty
    Height = 1095
    Left = 120
    TabIndex = 0
    Top = 7080
    Visible = 0 'False
    Width = 1695
End
Begin VB.Image Image1
    Height = 1695
    Left = 2640
    Stretch = -1 'True
    Top = 9240
    Visible = 0 'False
    Width = 11895
End
End
Attribute VB_Name = "Form1"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False
'DEFINITION:
'need to write the simple app showing insertion of generated images(will provide the d
'generates images in png, bmp, gif formats) into Crystal Report 8.5 in Visual Basic 6

'Add REFERENCE Microsoft Scripting Runtime
Public cn As ADODB.Connection
Public crx As New CRAXDRT.Application

Dim rpt As CRAXDRT.Report 'Variable for Report
Dim db As CRAXDRT.Database 'variable for Report Database
Dim crTab As CRAXDRT.DatabaseTable 'Variable for Report Database Table
Dim rs As New ADODB.Recordset
Dim WithEvents sect As CRAXDRT.Section 'Variable for Sector of Report
Attribute sect.VB_VarHelpID = -1

Dim pic1 As String 'Stores Image path
Dim h, w As Double 'Stores Height and width

Private Sub Command6_Click()
    Unload Me
End Sub
Private Sub sect_Format(ByVal pFormattingInfo As Object)
    Dim fso As New FileSystemObject 'Variable for Files, Folders add, edit, delete etc

    Dim bmp As StdPicture 'store .bmp file's memory or buffer
    Dim gif As StdPicture 'store .gif file's memory or buffer
    Dim ext As String 'store Extension of image file

    pic1 = sect.ReportObjects.Item("Field2").Value 'gets and stores image path

    'check for image available or not
    If fso.FileExists(pic1) = False Then
        MsgBox "File not found"
        Exit Sub
    End If

    ext = Right(pic1, 3) 'gets and stores extension of image

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'checks for particular extension and loads it to picturebox control
If ext = "png" Then
    PngPictureLoad pic1, Picture1, True
ElseIf ext = "bmp" Then
    Picture1.Picture = LoadPicture(pic1)
ElseIf ext = "gif" Then
    Image1.Picture = LoadPicture(pic1)
    Picture1.Picture = LoadPicture(pic1)
End If

If ext = "png" Then
    PngPictureLoad pic1, Picture1, True 'It loads file to Picture box control, the method
    With sect.ReportObjects 'it refers to section of Report
        pic1 = .Item("Field2").Value 'It gets and stores Image path
        Call pic_size 'It will get the size of image the method 'pic_size' is defined below
        'Set .Item(3).FormattedPicture = Image1.Picture 'It will load Image or picture to Crystal
        Set .Item(3).FormattedPicture = Picture1.Picture 'It will load Image or picture to Crystal
        .Item(3).Width = w 'It will set width of Image
        .Item(3).Height = h 'It will set height of Image
    End With
ElseIf ext = "bmp" Then
    Image1.Picture = LoadPicture(pic1) 'It loads file to Picture box control
    With sect.ReportObjects 'it refers to section of Report
        pic1 = .Item("Field2").Value 'It gets and stores Image path
        Call pic_size 'It will get the size of image the method 'pic_size' is defined below
        Set bmp = LoadPicture(.Item("Field2").Value) 'It will load Image or picture to Crystal
        Set .Item(3).FormattedPicture = bmp 'It will load Image or picture to Crystal
        .Item(3).Width = w 'It will set width of Image
        .Item(3).Height = h 'It will set height of Image
    End With
ElseIf ext = "gif" Then
    Image1.Picture = LoadPicture(pic1) 'It loads file to Picture box control
    With sect.ReportObjects 'it refers to section of Report
        pic1 = .Item("Field2").Value 'It gets and stores Image path
        Call pic_size 'It will get the size of image the method 'pic_size' is defined below
        Set gif = LoadPicture(.Item("Field2").Value) 'It will load Image or picture to Crystal
        Set .Item(3).FormattedPicture = gif 'It will load Image or picture to Crystal
        .Item(3).Width = w 'It will set width of Image
        .Item(3).Height = h 'It will set height of Image
    End With
End If
End Sub

Public Sub Command2_Click()
    Call conn 'Calls Conn method to connect with Database which is defined below
    Dim rpt_path, pwd As String 'rpt_path stores Report Path and pwd stores Password of Database
    pwd = Chr(10) & "crystal_report" 'It gets and stores Password of Database
    rpt_path = App.path & "\Report2.rpt" 'It gets and stores Report Path
    Set appl = New CRAXDRT.Application 'sets Crystal Report as Application to "appl" variable
    Set rpt = appl.OpenReport(rpt_path) 'sets Report path to rpt variable

    'below loop tells Crystal Report to follow Database
    For Each crTab In rpt.Database.Tables
        crTab.Location = App.path & "\temp.mdb"
        crTab.SetSessionInfo "", pwd
    Next

```

```

Set sect = Nothing 'sect variable gets blank
Set sect = rpt.Sections("Section5") 'sect variable gets Section of CR
rpt.DisplayProgressDialog = True 'It shows Progressbar to display CR

If rs.State = 1 Then rs.Close 'Checks if rs is open then it will close 'RS->Records
rs.Open "SELECT * FROM test", cn, 1, 1 'rs open with new query
rpt.Database.SetDataSource rs, 3, 1 'sets rs to Crystal Report

'Check if rs has no record then it will display message that no files to load
If rs.RecordCount <= 0 Then
    MsgBox "NO Files To Load", vbInformation
    Exit Sub
End If

CRViewer1.ReportSource = rpt 'CRViewer control gets which report to display
CRViewer1.ViewReport 'It will Display Report
CRViewer1.Zoom 1 'Crystal Report Zoom 100%
pic1 = rs.Fields(1).Value 'gets and stores Image path
End Sub

'Method to create connection with Database
Public Sub conn()
On Error GoTo checkErr
Dim path As String
path = App.path & "\temp.mdb"
Set cn = New ADODB.Connection
cn.Provider = "Microsoft.Jet.OLEDB.4.0"
cn.ConnectionString = path
cn.Properties("Jet OLEDB:Database Password") = "crystal_report"

cn.Open
OpenDatabase = True
Exit Sub
checkErr:
MsgBox Err.Description, vbExclamation, Err.Number
End Sub

Private Sub Form_Load()
Call conn 'It will call Conn method to establish connection with Database
End Sub

Private Sub Form_Resize()
'setting Crystal Report to Form
CRViewer1.Top = 0
CRViewer1.Left = 0
CRViewer1.Height = ScaleHeight
CRViewer1.Width = ScaleWidth
End Sub

Private Sub Form_Unload(Cancel As Integer)
If cn.State = 1 Then cn.Close 'close connection
If rs.State = 1 Then rs.Close 'close recordset
End Sub

'This method loads image to picturebox control and then sets height and width of image
Private Sub pic_size()
Dim ext As String
ext = Right(pic1, 3)
If ext = "png" Then
    'PngImageLoad pic1, Image1
    PngPictureLoad pic1, Picture1, False

```

```

ElseIf ext = "bmp" Then
    'Image1.Picture = LoadPicture(pic1)
    Picture1.Picture = LoadPicture(pic1)
ElseIf ext = "gif" Then
    'Image1.Picture = LoadPicture(pic1)
    Picture1.Picture = LoadPicture(pic1)
End If

'h = Image1.Height
'w = Image1.Width
h = Picture1.Height
w = Picture1.Width
'MsgBox "Height : " & h & vbCrLf & "Width : " & w
End Sub

```

Form2.frm

```

VERSION 5.00
Begin VB.Form Form2
    Caption           = "Barcode Printing Application"
    ClientHeight      = 1905
    ClientLeft        = 120
    ClientTop         = 450
    ClientWidth       = 4185
    ControlBox        = 0 'False
    LinkTopic         = "Form2"
    ScaleHeight       = 1905
    ScaleWidth        = 4185
    StartupPosition   = 3 'Windows Default
Begin VB.CommandButton Command4
    Cancel            = -1 'True
    Caption           = "E&XIT"
    BeginProperty Font
        Name           = "Times New Roman"
        Size           = 14.25
        Charset        = 0
        Weight         = 700
        Underline       = 0 'False
        Italic         = 0 'False
        Strikethrough   = 0 'False
    EndProperty
    Height            = 1455
    Left              = 2880
    TabIndex          = 1
    Top               = 240
    Width             = 975
End
Begin VB.CommandButton cmd_gen_cr_with_barcodes
    Caption           = "Generate Crystal Report with Barcodes"
    BeginProperty Font

```

```

        Name           = "Times New Roman"
        Size           = 14.25
        Charset         = 0
        Weight          = 700
        Underline       = 0 'False
        Italic          = 0 'False
        Strikethrough    = 0 'False
    EndProperty
    Height             = 1455
    Left               = 120
    TabIndex           = 0
    Top                = 240
    Width              = 2415
End
End
Attribute VB_Name = "Form2"
Attribute VB_GlobalNameSpace = False
Attribute VB_Creatable = False
Attribute VB_PredeclaredId = True
Attribute VB_Exposed = False
'Variable Declaration
'Dim pic1 As String 'Stores Image path
'Dim h, w As Double 'Stores Height and width of Image

'Dim bmp_path As String
'Dim png_path As String

Private Sub cmd_gen_cr_with_barcodes_Click()
Form1.Command2_Click
Form1.Show
End Sub

Private Sub Command4_Click()
Unload Me
End Sub
Private Sub Form_Load()
Call conn 'It will call Conn method to establish connection with Database
End Sub
'Method to insert path of images to database
Private Sub insert_into_DB()
Dim query As String

'Delete old Data clears Database
If rs.State = 1 Then rs.Close
query = "delete * from test"
rs.Open query, cn, 1, 1

'Insert Data to Database
num1 = 1
If rs.State = 1 Then rs.Close
query = "insert into test values(" & num1 & ", '" & bmp_path & "')"
rs.Open query, cn, 1, 1

If rs.State = 1 Then rs.Close
query = "insert into test values(" & num1 & ", '" & png_path & "')"
rs.Open query, cn, 1, 1
End Sub

'Method to create connection with Database
Public Sub conn()

```



```
On Error GoTo checkErr 'Error Handler
Dim path As String
path = App.path & "\temp.mdb"
Set cn = New ADODB.Connection
cn.Provider = "Microsoft.Jet.OLEDB.4.0"
cn.ConnectionString = path
cn.Properties("Jet OLEDB:Database Password") = "crystal_report"
cn.Open
OpenDatabase = True
Exit Sub
checkErr:
MsgBox Err.Description, vbExclamation, Err.Number
End Sub
```

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## VIDEO

<https://www.youtube.com/watch?v=REnj3A-oSPI>

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