

How to generate barcode from service for windows service in VB.NET using ByteScout Barcode SDK

See how to generate barcode from service to have windows service in VB.NET

Sample source codes below will show you how to cope with a difficult task, for example, windows service in VB.NET. ByteScout Barcode SDK helps with windows service in VB.NET. ByteScout Barcode SDK is the fully featured library to generate barcodes. Supports QR Code, Code 39, Code 128, UPC, GS1, GS-128, PDF417, Datamatrix and many other barcode types. Includes various options for barcode generation to ensure output quality, add barcodes to new or existing pdf files and images.

This rich sample source code in VB.NET for ByteScout Barcode SDK includes the number of functions and options you should do calling the API to implement windows service. For implimentation of this functionality, please copy and paste code below into your app using code editor. Then compile and run your app. Tutorials are available along with installed ByteScout Barcode SDK if you'd like to dive deeper into the topic and the details of the API.

Trial version of ByteScout is available for free download from our website. This and other source code samples for VB.NET and other programming languages are available.

VB.NET - Program.vb

```
Imports System.Collections.Generic
Imports System.ServiceProcess
Imports System.Text

NotInheritable Class Program
    Private Sub New()
    End Sub
    '''

    ''' The main entry point for the application.
    '''

    Friend Shared Sub Main()
        Dim servicesToRun As ServiceBase() = New ServiceBase() {New
Service1()}
        ServiceBase.Run(servicesToRun)
    End Sub
End Class
```

```
Partial Class ProjectInstaller
    '''
    ''' Required designer variable.
    '''

    Private components As System.ComponentModel.IContainer = Nothing

    '''
    ''' Clean up any resources being used.
    '''

    ''' true if managed resources should be disposed; otherwise, false.
    Protected Overrides Sub Dispose(disposing As Boolean)
        If disposing AndAlso (components IsNot Nothing) Then
            components.Dispose()
        End If
        MyBase.Dispose(disposing)
    End Sub

    #Region "Component Designer generated code"
    '''
    ''' Required method for Designer support - do not modify
    ''' the contents of this method with the code editor.
    '''

    Private Sub InitializeComponent()
        Me.serviceProcessInstaller1 = New
System.ServiceProcess.ServiceProcessInstaller()
        Me.serviceInstaller1 = New System.ServiceProcess.ServiceInstaller()
        ,
        ' serviceProcessInstaller1
        ,
        Me.serviceProcessInstaller1.Account =
System.ServiceProcess.ServiceAccount.LocalSystem
        Me.serviceProcessInstaller1.Password = Nothing
        Me.serviceProcessInstaller1.Username = Nothing
        ,
        ' serviceInstaller1
        ,
        Me.serviceInstaller1.ServiceName = "Service1"
        ,
        ' ProjectInstaller
        ,
        Me.Installers.AddRange(New System.Configuration.Install.Installer()
{Me.serviceProcessInstaller1, Me.serviceInstaller1})

    End Sub
End Class
```

```
#End Region

Private serviceProcessInstaller1 As
System.ServiceProcess.ServiceProcessInstaller
Private serviceInstaller1 As System.ServiceProcess.ServiceInstaller
End Class
```

VB.NET - ProjectInstaller.vb

```
Imports System.Collections
Imports System.Collections.Generic
Imports System.ComponentModel
Imports System.Configuration.Install

Public Partial Class ProjectInstaller
    Inherits System.Configuration.Install.Installer
    Public Sub New()
        InitializeComponent()
    End Sub
End Class
```

VB.NET - Service1.Designer.vb

```
Partial Class Service1
    '''
    ''' Required designer variable.
    '''
    Private components As System.ComponentModel.IContainer = Nothing
    '''
    ''' Clean up any resources being used.
    '''
    ''' true if managed resources should be disposed; otherwise, false.
    Protected Overrides Sub Dispose(disposing As Boolean)
```

```

        If disposing AndAlso (components IsNot Nothing) Then
            components.Dispose()
        End If
        MyBase.Dispose(disposing)
    End Sub

    #Region "Component Designer generated code"

    '''
    ''' Required method for Designer support - do not modify
    ''' the contents of this method with the code editor.
    '''

    Private Sub InitializeComponent()
        Me.eventLog1 = New System.Diagnostics.EventLog()
        DirectCast(Me.eventLog1,
System.ComponentModel.ISupportInitialize).BeginInit()
        '
        ' Service1
        '
        Me.ServiceName = "Service1"
        DirectCast(Me.eventLog1,
System.ComponentModel.ISupportInitialize).EndInit()

    End Sub

    #End Region

    Private eventLog1 As System.Diagnostics.EventLog
End Class

```

VB.NET - Service1.vb

```

Imports System.IO
Imports System.ServiceProcess
Imports System.Timers
Imports Bytescout.BarCode

Public Partial Class Service1
    Inherits ServiceBase
    Private _timer As Timer = Nothing

    Public Sub New()
        InitializeComponent()

        If Not System.Diagnostics.EventLog.SourceExists("MySource") Then
            System.Diagnostics.EventLog.CreateEventSource("MySource",
" MyNewLog")
        End If
    End Sub

```

```

        eventLog1.Source = "MySource"
        eventLog1.Log = "MyNewLog"
    End Sub

    Protected Overrides Sub OnStart(args As String())
        eventLog1.WriteEntry("In OnStart")

        If _timer IsNot Nothing Then
            _timer.[Stop]()
            RemoveHandler _timer.Elapsed, AddressOf Timer_Elapsed
            _timer.Dispose()
        End If

        _timer = New Timer(5000)
        AddHandler _timer.Elapsed, AddressOf Timer_Elapsed
        _timer.Start()
    End Sub

    Protected Overrides Sub OnStop()
        eventLog1.WriteEntry("In OnStop.")

        If _timer IsNot Nothing Then
            _timer.[Stop]()
            RemoveHandler _timer.Elapsed, AddressOf Timer_Elapsed
            _timer.Dispose()
            _timer = Nothing
        End If
    End Sub

    Private Sub Timer_Elapsed(sender As Object, e As ElapsedEventArgs)
        Dim barcode As Barcode = Nothing

        Try
            ' Generate sample barcode value by random number
            Dim random As New Random()
            Dim barcodeValue As String = "(00)" & random.[Next]
            ().ToString("000000000000000000")

            ' Create Bytescout.BarCode object and setup the barcode
            barcode = New Barcode("demo", "demo")
            barcode.Symbology = SymbologyType.GS1_128
            barcode.Value = barcodeValue

            Dim outputDirectory As String = "c:\barcodes"
            If Not Directory.Exists(outputDirectory) Then
                Directory.CreateDirectory(outputDirectory)
            End If

            Dim fileName As String = barcodeValue & ".pdf"
            Dim filePath As String = Path.Combine(outputDirectory,
fileName)

            ' Save barcode to new PDF file
            barcode.DrawToNewPDF(filePath, 500, 500, 50, 50)

            ' Sending email message example:
            '
            System.Net.Mail.MailMessage message = new

```

```
System.Net.Mail.MailMessage();
'
'           message.To.Add("lucky person@online.microsoft.com");
'           message.Subject = fileName;
'           message.From = new
System.Net.Mail.MailAddress("From@online.microsoft.com");
'           message.Body = "This is the message body";
'           message.Attachments.Add(new
System.Net.Mail.Attachment(filePath));
'
'           System.Net.Mail.SmtpClient smtp = new
System.Net.Mail.SmtpClient("your_smtp_host");
'           smtp.Send(message);
'
'
'           eventLog1.WriteEntry("Generated " & fileName)
Catch exception As Exception
'           eventLog1.WriteEntry(exception.Message)
Finally
'           If barcode IsNot Nothing Then
'               barcode.Dispose()
'           End If
End Try
End Sub
End Class
```

FOR MORE INFORMATION AND FREE TRIAL:

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