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store large data with macro pdf417 barcode in VB.NET with ByteScout Barcode SDK

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.

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Source Code Files:

CreateBarcode.VS2005.vbproj

```
<?xml version="1.0" encoding="utf-8"?>
<Project DefaultTargets="Build" xmlns="http://schemas.microsoft.com/developer/msbuild/2003">
  <PropertyGroup>
    <Configuration Condition="'$(Configuration)' == ''">Debug</Configuration>
    <Platform Condition="'$(Platform)' == ''">AnyCPU</Platform>
    <ProductVersion>8.0.50727</ProductVersion>
    <SchemaVersion>2.0</SchemaVersion>
    <ProjectGuid>{C5923180-C9F5-4116-AF72-A9E40DB13F42}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <StartupObject>Sub Main</StartupObject>
    <RootNamespace>CreateBarcode</RootNamespace>
    <AssemblyName>CreateBarcode</AssemblyName>
    <MyType>Console</MyType>
  </PropertyGroup>
```

```

<PropertyGroup Condition=" '$(Configuration)$(Platform)' == 'Debug|AnyCPU' ">
  <DebugSymbols>true</DebugSymbols>
  <DebugType>full</DebugType>
  <DefineDebug>true</DefineDebug>
  <DefineTrace>true</DefineTrace>
  <OutputPath>bin\Debug\</OutputPath>
  <DocumentationFile>CreateBarcode.xml</DocumentationFile>
  <NoWarn>42016,41999,42017,42018,42019,42032,42036,42020,42021,42022</NoWarn>
</PropertyGroup>
<PropertyGroup Condition=" '$(Configuration)$(Platform)' == 'Release|AnyCPU' ">
  <DebugType>pdbonly</DebugType>
  <DefineDebug>false</DefineDebug>
  <DefineTrace>true</DefineTrace>
  <Optimize>true</Optimize>
  <OutputPath>bin\Release\</OutputPath>
  <DocumentationFile>CreateBarcode.xml</DocumentationFile>
  <NoWarn>42016,41999,42017,42018,42019,42032,42036,42020,42021,42022</NoWarn>
</PropertyGroup>
<ItemGroup>
  <Reference Include="Bytescout.BarCode, Version=1.1.0.0, Culture=neutral, PublicKeyToken=f7dd1bd9d40a50eb,
    <SpecificVersion>False</SpecificVersion>
    <HintPath>c:\Program Files\Bytescout BarCode Generator SDK\net2.00\Bytescout.BarCode.dll</HintPath>
  </Reference>
  <Reference Include="System" />
  <Reference Include="System.Data" />
  <Reference Include="System.Deployment" />
  <Reference Include="System.Xml" />
</ItemGroup>
<ItemGroup>
</ItemGroup>
<ItemGroup>
</ItemGroup>
  <Import Include="Microsoft.VisualBasic" />
  <Import Include="System" />
  <Import Include="System.Collections" />
  <Import Include="System.Collections.Generic" />
  <Import Include="System.Data" />
  <Import Include="System.Diagnostics" />
</ItemGroup>
<ItemGroup>
  <Compile Include="Module1.vb" />
</ItemGroup>
<ItemGroup>
  <Content Include="InputData.txt">
    <CopyToOutputDirectory>Always</CopyToOutputDirectory>
  </Content>
</ItemGroup>
  <Import Project="$(MSBuildBinPath)\Microsoft.VisualBasic.targets" />
  <!-- To modify your build process, add your task inside one of the targets below and uncomment it.
    Other similar extension points exist, see Microsoft.Common.targets.
  <Target Name="BeforeBuild">
  </Target>
  <Target Name="AfterBuild">
  </Target>
  -->
</Project>

```

CreateBarcode.VS2008.vbproj

```

<?xml version="1.0" encoding="utf-8"?>
<Project DefaultTargets="Build" xmlns="http://schemas.microsoft.com/developer/msbuild/2003" ToolsVersion="3.5">
  <PropertyGroup>
    <Configuration Condition=" '$(Configuration)' == '' ">Debug</Configuration>
    <Platform Condition=" '$(Platform)' == '' ">AnyCPU</Platform>
    <ProductVersion>9.0.21022</ProductVersion>
    <SchemaVersion>2.0</SchemaVersion>
    <ProjectGuid>{C5923180-C9F5-4116-AF72-A9E40DB13F42}</ProjectGuid>
    <OutputType>Exe</OutputType>

```

```

<StartupObject>Sub Main</StartupObject>
<RootNamespace>CreateBarcode</RootNamespace>
<AssemblyName>CreateBarcode</AssemblyName>
<MyType>Console</MyType>
<OldToolsVersion>2.0</OldToolsVersion>
<TargetFrameworkVersion>v3.5</TargetFrameworkVersion>
</PropertyGroup>
<PropertyGroup Condition=" '$(Configuration)|$(Platform)' == 'Debug|AnyCPU' ">
  <DebugSymbols>>true</DebugSymbols>
  <DebugType>full</DebugType>
  <DefineDebug>>true</DefineDebug>
  <DefineTrace>true</DefineTrace>
  <OutputPath>bin\Debug\</OutputPath>
  <DocumentationFile>CreateBarcode.xml</DocumentationFile>
  <NoWarn>42016,41999,42017,42018,42019,42032,42036,42020,42021,42022</NoWarn>
</PropertyGroup>
<PropertyGroup Condition=" '$(Configuration)|$(Platform)' == 'Release|AnyCPU' ">
  <DebugType>pdbonly</DebugType>
  <DefineDebug>false</DefineDebug>
  <DefineTrace>true</DefineTrace>
  <Optimize>true</Optimize>
  <OutputPath>bin\Release\</OutputPath>
  <DocumentationFile>CreateBarcode.xml</DocumentationFile>
  <NoWarn>42016,41999,42017,42018,42019,42032,42036,42020,42021,42022</NoWarn>
</PropertyGroup>
<ItemGroup>
  <Reference Include="Bytescout.BarCode, Version=1.1.0.0, Culture=neutral, PublicKeyToken=f7dd1bd9d40a50eb,
    <SpecificVersion>False</SpecificVersion>
    <HintPath>c:\Program Files\Bytescout BarCode Generator SDK\net2.00\Bytescout.BarCode.dll</HintPath>
  </Reference>
  <Reference Include="System" />
  <Reference Include="System.Data" />
  <Reference Include="System.Deployment" />
  <Reference Include="System.Xml" />
</ItemGroup>
<ItemGroup>
</ItemGroup>
<ItemGroup>
  <Import Include="Microsoft.VisualBasic" />
  <Import Include="System" />
  <Import Include="System.Collections" />
  <Import Include="System.Collections.Generic" />
  <Import Include="System.Data" />
  <Import Include="System.Diagnostics" />
</ItemGroup>
<ItemGroup>
  <Compile Include="Module1.vb" />
</ItemGroup>
<ItemGroup>
  <Content Include="InputData.txt">
    <CopyToOutputDirectory>Always</CopyToOutputDirectory>
  </Content>
</ItemGroup>
<Import Project="$(MSBuildToolsPath)\Microsoft.VisualBasic.targets" />
<!-- To modify your build process, add your task inside one of the targets below and uncomment it.
  Other similar extension points exist, see Microsoft.Common.targets.
  <Target Name="BeforeBuild">
  </Target>
  <Target Name="AfterBuild">
  </Target>
-->
</Project>

```

CreateBarcode.VS2010.vbproj

```

<?xml version="1.0" encoding="utf-8"?>
<Project DefaultTargets="Build" xmlns="http://schemas.microsoft.com/developer/msbuild/2003" ToolsVersion="4.0">

```

```

<PropertyGroup>
  <Configuration Condition=" '$(Configuration)' == " ">Debug</Configuration>
  <Platform Condition=" '$(Platform)' == " ">AnyCPU</Platform>
  <ProductVersion>
  </ProductVersion>
  <SchemaVersion>2.0</SchemaVersion>
  <ProjectGuid>{C5923180-C9F5-4116-AF72-A9E40DB13F42}</ProjectGuid>
  <OutputType>Exe</OutputType>
  <StartupObject>Sub Main</StartupObject>
  <RootNamespace>CreateBarcode</RootNamespace>
  <AssemblyName>CreateBarcode</AssemblyName>
  <MyType>Console</MyType>
  <OldToolsVersion>3.5</OldToolsVersion>
  <TargetFrameworkVersion>v4.0</TargetFrameworkVersion>
</PropertyGroup>
<PropertyGroup Condition=" '$(Configuration)$(Platform)' == 'Debug|AnyCPU' ">
  <DebugSymbols>true</DebugSymbols>
  <DebugType>full</DebugType>
  <DefineDebug>true</DefineDebug>
  <DefineTrace>true</DefineTrace>
  <OutputPath>bin\Debug</OutputPath>
  <DocumentationFile>CreateBarcode.xml</DocumentationFile>
  <NoWarn>42016,41999,42017,42018,42019,42032,42036,42020,42021,42022</NoWarn>
</PropertyGroup>
<PropertyGroup Condition=" '$(Configuration)$(Platform)' == 'Release|AnyCPU' ">
  <DebugType>pdbonly</DebugType>
  <DefineDebug>>false</DefineDebug>
  <DefineTrace>true</DefineTrace>
  <Optimize>true</Optimize>
  <OutputPath>bin\Release</OutputPath>
  <DocumentationFile>CreateBarcode.xml</DocumentationFile>
  <NoWarn>42016,41999,42017,42018,42019,42032,42036,42020,42021,42022</NoWarn>
</PropertyGroup>
<ItemGroup>
  <Reference Include="Bytescout.BarCode, Version=1.1.0.0, Culture=neutral, PublicKeyToken=f7dd1bd9d40a50eb,
    <SpecificVersion>False</SpecificVersion>
    <HintPath>c:\Program Files\Bytescout BarCode Generator SDK\net2.00\Bytescout.BarCode.dll</HintPath>
  </Reference>
  <Reference Include="System" />
  <Reference Include="System.Data" />
  <Reference Include="System.Deployment" />
  <Reference Include="System.Drawing" />
  <Reference Include="System.Xml" />
</ItemGroup>
<ItemGroup>
</ItemGroup>
<ItemGroup>
</ItemGroup>
<ItemGroup>
  <Import Include="Microsoft.VisualBasic" />
  <Import Include="System" />
  <Import Include="System.Collections" />
  <Import Include="System.Collections.Generic" />
  <Import Include="System.Data" />
  <Import Include="System.Diagnostics" />
</ItemGroup>
<ItemGroup>
</ItemGroup>
<ItemGroup>
  <Compile Include="Module1.vb" />
</ItemGroup>
<ItemGroup>
</ItemGroup>
<ItemGroup>
  <Content Include="InputData.txt">
    <CopyToOutputDirectory>Always</CopyToOutputDirectory>
  </Content>
</ItemGroup>
<Import Project="$(MSBuildToolsPath)\Microsoft.VisualBasic.targets" />
<!-- To modify your build process, add your task inside one of the targets below and uncomment it.
  Other similar extension points exist, see Microsoft.Common.targets.
  <Target Name="BeforeBuild">
  </Target>
  <Target Name="AfterBuild">
  </Target>
-->
</Project>

```

InputData.txt

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Module1.vb

```
Imports System.Drawing
Imports System.Linq
Imports Bytescout.BarCode

Module Module1

    Sub Main()

        ' Load text file
        Dim textInput As String = System.IO.File.ReadAllText("InputData.txt")

        ' Split text into chunks
        Dim lstChunks = textInput.Split(New String() {Environment.NewLine}, StringSplitOptions.RemoveEmptyEntries)

        ' Create new barcode
        Using barcode As New Barcode("demo", "demo")

            ' Keep generated barcode images in the list
            Dim images As New List(Of Image)()

            ' Select Macro PDF417 barcode type
            barcode.Symbology = SymbologyType.MacroPDF417

            Dim macro417SegmentHelper As Macro417SegmentHelper = New Macro417SegmentHelper()
            macro417SegmentHelper.AddValue(lstChunks)

            ' Set FileID.
            ' FileID is a number from 0 to 899. It must be same for all barcodes in the set.
            barcode.Options.PDF417FileID = 123

            Dim ctr = 0
            Dim resImgName = ""
            For Each itmSegment As Macro417Segment In macro417SegmentHelper.GetAllSegments()
                ' create the first segment barcode so set SegmentIndex = 1
            
```

```

barcode.Options.PDF417SegmentIndex = itmSegment.SegmentIndex

' Set value
barcode.Value = itmSegment.SegmentValue

' set that this Is Not the last segment yet
barcode.Options.PDF417LastSegment = itmSegment.IsLastSegment

' Save barcode to image
ctr = ctr + 1
resImgName = {code}quot;img{ctr}.png"
barcode.SaveImage(resImgName, Imaging.ImageFormat.Png)

Console.WriteLine("{0}' generated!", resImgName)

Next

End Using

Console.ReadLine()

End Sub

Public Class Macro417SegmentHelper
' Declarations
Private Property lstValues As List(Of String) = New List(Of String)()

' Add segment value
Public Sub AddValue(ParamArray strValue As String())
Me.AddValue(strValue.ToList)
End Sub

Public Sub AddValue(ByVal strValue As List(Of String))
For Each item As String In strValue
lstValues.Add(item)
Next
End Sub

' Get all segment value
Public Function GetAllSegments() As List(Of Macro417Segment)
Dim lstRet = New List(Of Macro417Segment)()

For i As Integer = 0 To lstValues.Count - 1
Dim oSegment = New Macro417Segment With {
.SegmentValue = lstValues(i),
.SegmentIndex = i + 1,
.IsLastSegment = ((i + 1) = lstValues.Count)
}
lstRet.Add(oSegment)
Next

Return lstRet
End Function

End Class

Public Class Macro417Segment
Public Property SegmentValue As String
Public Property SegmentIndex As Integer
Public Property IsLastSegment As Boolean
End Class

End Module

```

VIDEO

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

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