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How to decode identification card information (pdf417) in VB.NET using ByteScout BarCode Reader SDK

What is ByteScout BarCode Reader SDK? It is the SDK for barcode decoding. Can read all popular types from Code 128, GS1, UPC and Code 39 to QR Code, Datamatrix, PDF417. Images, pdf, TIF images and live web camera are supported as input. Designed to handle documents with noise and defects. Includes optional splitter and merger for pdf and tiff based on barcodes. Batch mode is optimized for high performance with multiple threads. Decoded values can be exported to XML, JSON, CSV or into custom data format.

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Source Code Files:

Module1.vb

```
Imports System.IO
Imports Bytescout.BarCodeReader

Module Module1

    Sub Main()

        ' Replace barcode input file path here
        Const InputFile As String = "InputBarcodeImage.jpg"

        Console.WriteLine("Reading barcode(s) from image {0}", Path.GetFullPath(InputFile))
```

```

Dim reader As New Reader()
reader.RegistrationName = "demo"
reader.RegistrationKey = "demo"

' Set barcode type to find
reader.BarcodeTypesToFind.PDF417 = True

'-----
' NOTE: We can read barcodes from specific page to increase performance .
' For sample please refer to "Decoding barcodes from PDF by pages" program.
'-----

' Read barcodes
Dim barcodes As FoundBarcode() = reader.ReadFrom(InputFile)

If barcodes.Length > 0 Then

    Dim barcode As FoundBarcode = barcodes(0)

    ' Get specific fields

    Dim identificationCard As IdentificationCard = barcode.Metadata

    If Not identificationCard Is Nothing Then

        Console.WriteLine("ID Numer: " + identificationCard.IdNumber)
        Console.WriteLine("First Name: " + identificationCard.Name.First)
        Console.WriteLine("Middle Name: " + identificationCard.Name.Middle)
        Console.WriteLine("Last Name: " + identificationCard.Name.Last)
        Console.WriteLine("Sex: " + identificationCard.Sex.ToString())
        Console.WriteLine("Date Of Birth: " + identificationCard.DateOfBirth)
        Console.WriteLine("Address: " + identificationCard.Address.ToString())

        If TypeOf identificationCard Is DriversLicense Then
            Dim driverLicense As DriversLicense = identificationCard

            Console.WriteLine("Vehicle Class: " + driverLicense.Jurisdiction.VehicleClass)
            Console.WriteLine("Endorsement Codes: " + driverLicense.Jurisdiction.EndorsementCodes)
            Console.WriteLine("Restriction Codes: " + driverLicense.Jurisdiction.RestrictionCodes)
        End If

    Else
        Console.WriteLine("Could not retrieve AAMVA data from this barcode. Raw value: " + Environment.NewLine)
    End If

    ' ... Or get the full information as JSON
    Console.WriteLine(Environment.NewLine + Environment.NewLine + "-----" + Environment.NewLine)

    Dim jsonString = reader.ExportFoundBarcodesToJSON()
    Console.WriteLine(jsonString)

Else
    Console.WriteLine("No barcodes found!")
End If

' Cleanup
reader.Dispose()

Console.WriteLine("Press any key to exit..")
Console.ReadKey()

End Sub

End Module

```

```

<?xml version="1.0" encoding="utf-8"?>
<Project Sdk="Microsoft.NET.Sdk">
  <PropertyGroup>
    <OutputType>Exe</OutputType>
    <TargetFramework>netcoreapp2.0</TargetFramework>
    <EnableDefaultCompileItems>>false</EnableDefaultCompileItems>
    <GenerateAssemblyCompanyAttribute>>false</GenerateAssemblyCompanyAttribute>
    <GenerateAssemblyConfigurationAttribute>>false</GenerateAssemblyConfigurationAttribute>
    <GenerateAssemblyFileVersionAttribute>>false</GenerateAssemblyFileVersionAttribute>
    <GenerateAssemblyInformationalVersionAttribute>>false</GenerateAssemblyInformationalVersionAttribute>
    <GenerateAssemblyProductAttribute>>false</GenerateAssemblyProductAttribute>
    <GenerateAssemblyTitleAttribute>>false</GenerateAssemblyTitleAttribute>
    <GenerateAssemblyVersionAttribute>>false</GenerateAssemblyVersionAttribute>
    <GenerateAssemblyCopyrightAttribute>>false</GenerateAssemblyCopyrightAttribute>
    <GenerateAssemblyTrademarkAttribute>>false</GenerateAssemblyTrademarkAttribute>
    <GenerateAssemblyCultureAttribute>>false</GenerateAssemblyCultureAttribute>
    <GenerateAssemblyDescriptionAttribute>>false</GenerateAssemblyDescriptionAttribute>
  </PropertyGroup>
  <ItemGroup>
    <Compile Include="Module1.vb" />
  </ItemGroup>
  <ItemGroup>
    <PackageReference Include="Microsoft.Windows.Compatibility" Version="2.0.0" />
  </ItemGroup>
  <ItemGroup>
    <Reference Include="Bytescout.BarCodeReader">
      <SpecificVersion>False</SpecificVersion>
      <HintPath>c:\Program Files\Bytescout Bar Code Reader SDK\netcoreapp2.0\Bytescout.BarCodeReader.dll</HintPath>
    </Reference>
  </ItemGroup>
</Project>

```

ReadIdentificationCardInformation.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>{75D64BA4-2691-4BBA-A89D-B575EE05AB63}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <StartupObject>ReadIdentificationCardInformation.Module1</StartupObject>
    <RootNamespace>ReadIdentificationCardInformation</RootNamespace>
    <AssemblyName>ReadIdentificationCardInformation</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>ReadIdentificationCardInformation.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>ReadIdentificationCardInformation.xml</DocumentationFile>
    <NoWarn>42016,41999,42017,42018,42019,42032,42036,42020,42021,42022</NoWarn>
  </PropertyGroup>

```

```

<ItemGroup>
  <Reference Include="Bytescout.BarCodeReader, Version=8.20.0.1340, Culture=neutral, PublicKeyToken=f7dd1bd
    <SpecificVersion>False</SpecificVersion>
    <HintPath>C:\Program Files\Bytescout BarCode Reader SDK\net2.0\Bytescout.BarCodeReader.dll</HintPath>
  </Reference>
  <Reference Include="System" />
  <Reference Include="System.Data" />
  <Reference Include="System.Deployment" />
  <Reference Include="System.Drawing" />
  <Reference Include="System.Xml" />
</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>
<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>

```

ReadIdentificationCardInformation.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>{75D64BA4-2691-4BBA-A89D-B575EE05AB63}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <StartupObject>ReadIdentificationCardInformation.Module1</StartupObject>
    <RootNamespace>ReadIdentificationCardInformation</RootNamespace>
    <AssemblyName>ReadIdentificationCardInformation</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>ReadIdentificationCardInformation.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>ReadIdentificationCardInformation.xml</DocumentationFile>
    <NoWarn>42016,41999,42017,42018,42019,42032,42036,42020,42021,42022</NoWarn>

```

```

</PropertyGroup>
<ItemGroup>
  <Reference Include="Bytescout.BarCodeReader, Version=8.20.0.1340, Culture=neutral, PublicKeyToken=f7dd1bd
    <SpecificVersion>False</SpecificVersion>
    <HintPath>C:\Program Files\Bytescout BarCode Reader SDK\net3.50\Bytescout.BarCodeReader.dll</HintPath>
  </Reference>
  <Reference Include="System" />
  <Reference Include="System.Data" />
  <Reference Include="System.Deployment" />
  <Reference Include="System.Drawing" />
  <Reference Include="System.Xml" />
</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>
<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>

```

ReadIdentificationCardInformation.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>{75D64BA4-2691-4BBA-A89D-B575EE05AB63}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <StartupObject>ReadIdentificationCardInformation.Module1</StartupObject>
    <RootNamespace>ReadIdentificationCardInformation</RootNamespace>
    <AssemblyName>ReadIdentificationCardInformation</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>ReadIdentificationCardInformation.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>
  </PropertyGroup>

```

```
<DocumentationFile>ReadIdentificationCardInformation.xml</DocumentationFile>
<NoWarn>42016,41999,42017,42018,42019,42032,42036,42020,42021,42022</NoWarn>
</PropertyGroup>
<ItemGroup>
  <Reference Include="Bytescout.BarCodeReader, Version=8.20.0.1340, Culture=neutral, PublicKeyToken=f7dd1bd
  <SpecificVersion>False</SpecificVersion>
  <HintPath>C:\Program Files\Bytescout BarCode Reader SDK\net4.0\Bytescout.BarCodeReader.dll</HintPath>
</Reference>
  <Reference Include="System" />
  <Reference Include="System.Data" />
  <Reference Include="System.Deployment" />
  <Reference Include="System.Drawing" />
  <Reference Include="System.Xml" />
</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>
<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>
```

VIDEO

<https://www.youtube.com/watch?v=EARSPJFIJMU>

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