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How to decode AAMVA data from pdf417 barcode in VB.NET using ByteScout BarCode Reader SDK

What is ByteScout BarCode Reader SDK? It is the barcode decoder with support for code 39, code 128, QR Code, Datamatrix, GS1, PDF417 and all other popular barcodes. Can read barcodes from images, pdf, tiff documents and live web camera. Supports noisy and damaged documents, can split and merge pdf and tiff documents based on barcodes. Can export barcode decoder results to XML, JSON, CSV and into custom data structures.

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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

```

ReadAAMVAInformation.NETCore.vbproj

```

<?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 BarCode Reader SDK\netcoreapp2.0\Bytescout.BarCodeReader.dll</HintPath>
    </Reference>
  </ItemGroup>
</Project>

```

ReadAAMVAInformation.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\net.2.0\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>

```

ReadAAMVAInformation.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>

```

ReadAAMVAInformation.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>
    <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=EARS PJF IJMU>

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