

How to decode identification card information (pdf417) in C# using ByteScout BarCode Reader SDK

ByteScout BarCode Reader SDK is the SDK for reading of barcodes from PDF, images and live camera or video. Almost every common type like Code 39, Code 128, GS1, UPC, QR Code, Datamatrix, PDF417 and many others are supported. Supports noisy and defective images and docs. Includes optional documents splitter and merger for pdf and tiff based on found barcodes. Batch mode is supported for superior performance using multiple threads. Decoded values are easily exported to JSON, CSV, XML and to custom format.

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[visit www.Bytescout.com](http://www.Bytescout.com)

Source Code Files:

Program.cs

```
using System;
using System.IO;
using Bytescout.BarCodeReader;

namespace ReadIdentificationCardInformation
{
    class Program
    {
        // Replace barcode input file path here
        const string InputFile = "InputBarcodeImage.jpg";

        static void Main()
```

```

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

    Reader reader = 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
    FoundBarcode[] barcodes = reader.ReadFrom(InputFile);

    if(barcodes.Length > 0)
    {
        FoundBarcode barcode = barcodes[0];

        // Get specific fields:

        IdentificationCard identificationCard = barcode.Metadata as IdentificationCard;

        if (identificationCard != null)
        {
            Console.WriteLine("ID Number: " + 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);
            Console.WriteLine("Date Of Birth: " + identificationCard.DateOfBirth);
            Console.WriteLine("Address: " + identificationCard.Address);

            if (identificationCard is DriversLicense)
            {
                DriversLicense driverLicense = (DriversLicense)identificationCard;

                Console.WriteLine("Vehicle Class: " + driverLicense.Jurisdiction.VehicleClass);
                Console.WriteLine("Endorsement Codes: " + driverLicense.Jurisdiction.EndorsementCodes);
                Console.WriteLine("Restriction Codes: " + driverLicense.Jurisdiction.RestrictionCodes);
            }
        }
        else
        {
            Console.WriteLine("Could not retrieve AAMVA data from this barcode. Raw value: \r\n" + barcode.Value)
        }

        // ... or get the full information as JSON:
        Console.WriteLine("\n\n-----\n");

        string jsonString = reader.ExportFoundBarcodesToJSON();
        Console.WriteLine(jsonString);
    }
    else
    {
        Console.WriteLine("No barcodes found!");
    }

    // Cleanup
    reader.Dispose();

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

```

ReadIdentificationCardInformation.NETCore.csproj

```
<?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="Program.cs" />
  </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>
```

ReadIdentificationCardInformation.VS2005.csproj

```
<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>{C664E764-C424-4CD5-AF69-F6B05FB17BA8}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <RootNamespace>ReadIdentificationCardInformation</RootNamespace>
    <AssemblyName>ReadIdentificationCardInformation</AssemblyName>
  </PropertyGroup>
  <PropertyGroup Condition=" '$(Configuration)|$(Platform)' == 'Debug|AnyCPU' ">
    <DebugSymbols>true</DebugSymbols>
    <DebugType>full</DebugType>
    <Optimize>>false</Optimize>
    <OutputPath>bin\Debug</OutputPath>
    <DefineConstants>DEBUG;TRACE</DefineConstants>
    <ErrorReport>prompt</ErrorReport>
    <WarningLevel>4</WarningLevel>
  </PropertyGroup>
  <PropertyGroup Condition=" '$(Configuration)|$(Platform)' == 'Release|AnyCPU' ">
    <DebugType>pdbonly</DebugType>
    <Optimize>true</Optimize>
    <OutputPath>bin\Release</OutputPath>
    <DefineConstants>TRACE</DefineConstants>
    <ErrorReport>prompt</ErrorReport>
    <WarningLevel>4</WarningLevel>
  </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\net2.00\Bytescout.BarCodeReader.dll</HintPath>
</Reference>
  <Reference Include="System" />
  <Reference Include="System.Data" />
  <Reference Include="System.Drawing" />
  <Reference Include="System.Xml" />
</ItemGroup>
<ItemGroup>
  <Compile Include="Program.cs" />
</ItemGroup>
<Import Project="$(MSBuildBinPath)\Microsoft.CSharp.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.csproj

```

<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>{C664E764-C424-4CD5-AF69-F6B05FB17BA8}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <RootNamespace>ReadIdentificationCardInformation</RootNamespace>
    <AssemblyName>ReadIdentificationCardInformation</AssemblyName>
    <OldToolsVersion>2.0</OldToolsVersion>
    <TargetFrameworkVersion>v3.5</TargetFrameworkVersion>
  </PropertyGroup>
  <PropertyGroup Condition="'$(Configuration)|$(Platform)' == 'Debug|AnyCPU' ">
    <DebugSymbols>true</DebugSymbols>
    <DebugType>full</DebugType>
    <Optimize>>false</Optimize>
    <OutputPath>bin\Debug</OutputPath>
    <DefineConstants>DEBUG;TRACE</DefineConstants>
    <ErrorReport>prompt</ErrorReport>
    <WarningLevel>4</WarningLevel>
  </PropertyGroup>
  <PropertyGroup Condition="'$(Configuration)|$(Platform)' == 'Release|AnyCPU' ">
    <DebugType>pdbonly</DebugType>
    <Optimize>true</Optimize>
    <OutputPath>bin\Release</OutputPath>
    <DefineConstants>TRACE</DefineConstants>
    <ErrorReport>prompt</ErrorReport>
    <WarningLevel>4</WarningLevel>
  </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.Drawing" />
    <Reference Include="System.Xml" />
  </ItemGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
  </ItemGroup>

```

```

</ItemGroup>
<Import Project="$(MSBuildToolsPath)\Microsoft.CSharp.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.csproj

```

<?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>{C664E764-C424-4CD5-AF69-F6B05FB17BA8}</ProjectGuid>
    <OutputType>Exe</OutputType>
    <RootNamespace>ReadIdentificationCardInformation</RootNamespace>
    <AssemblyName>ReadIdentificationCardInformation</AssemblyName>
    <OldToolsVersion>3.5</OldToolsVersion>
    <TargetFrameworkVersion>v4.0</TargetFrameworkVersion>
  </PropertyGroup>
  <PropertyGroup Condition="'$(Configuration)|$(Platform)' == 'Debug|AnyCPU' ">
    <DebugSymbols>>true</DebugSymbols>
    <DebugType>full</DebugType>
    <Optimize>>false</Optimize>
    <OutputPath>bin\Debug</OutputPath>
    <DefineConstants>DEBUG;TRACE</DefineConstants>
    <ErrorReport>prompt</ErrorReport>
    <WarningLevel>4</WarningLevel>
  </PropertyGroup>
  <PropertyGroup Condition="'$(Configuration)|$(Platform)' == 'Release|AnyCPU' ">
    <DebugType>pdbonly</DebugType>
    <Optimize>>true</Optimize>
    <OutputPath>bin\Release</OutputPath>
    <DefineConstants>TRACE</DefineConstants>
    <ErrorReport>prompt</ErrorReport>
    <WarningLevel>4</WarningLevel>
  </PropertyGroup>
  <ItemGroup>
    <Reference Include="Bytescout.BarCodeReader">
      <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.Drawing" />
    <Reference Include="System.Xml" />
  </ItemGroup>
  <ItemGroup>
    <Compile Include="Program.cs" />
  </ItemGroup>
  <Import Project="$(MSBuildToolsPath)\Microsoft.CSharp.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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