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1 Introduction

MW6 lightweight PDF417 ASP.NET component is a 100% managed code web control which can add professional quality 2D barcode images to your ASP.NET web pages hosted on the IIS server.

PDF417 is a multi-row, variable-length symbology offering high data capacity and error-correction capability, it is capable of encoding 1100 bytes, 1800 ASCII characters, or 2700 digits.

Every PDF417 symbol is composed of a stack of rows, from a minimum of 3 to a maximum of 90 rows, a PDF417 symbol character consists 17 modules arranged into 4 bars and 4 spaces.

2 Create IIS Mapping

If you install IIS after installing the .NET Framework, IIS will not be properly mapped to ASP.NET, you will experience unexpected behavior, you must repair IIS mappings to ASP.NET.

At the command prompt, type the following, and then press ENTER:

```
"<Windir>\Microsoft.NET\Framework\<Version>\aspnet_regiis.exe" -i
```

Where <WinDir> is the windows folder (e.g. "c:\windows" or "c:\winnt") and <Version> is the version number of the .NET Framework (e.g. "v2.0.50727").

3 Installation and Testing

1. The trial version PDF417 ASP.NET web control appends "MW6 Demo" to the string encoded with the PDF417 format.
2. Copy "MW6.ASPNET.PDF417.dll" to the bin folder of the IIS server, for example, you can copy MW6.ASPNET.PDF417.dll to the folder "c:\inetpub\wwwroot\bin".
3. Copy Demo.html, CreatelmVB.aspx, CreatelmCS.aspx and Show.aspx to a folder of the IIS server where Active Server Pages are enabled, for example, you can create one folder "C:\inetpub\wwwroot\MyFolder" and copy those 4 files to this folder.
4. Enter the URL of Demo.html to your browser for verifying whether PDF417 ASP.NET web control is working or not, for example, you can enter <http://localhost/MyFolder/Demo.html> for testing it on the IIS server itself.

4 Reference Guide

4.1 Properties

4.1.1 BackColor Property

Gets or sets the background color of the PDF417 barcode.

[Visual Basic .NET]

Public Property BackColor As Color

```
[C#]  
public Color BackColor {get; set;}
```

Remarks

The default value is white color.

4.1.2 BarColor Property

Gets or sets the color of the PDF417 barcode.

```
[Visual Basic .NET]  
Public Property BarColor As Color
```

```
[C#]  
public Color BarColor {get; set;}
```

Remarks

The default value is black color.

4.1.3 Columns Property

Gets or sets the preferred number of the columns for the PDF417 barcode.

```
[Visual Basic .NET]  
Public Property Columns As Integer
```

```
[C#]  
public int Columns {get; set;}
```

Remarks

Typically this property value should be between 3 and 30.

4.1.4 Data Property

Gets or sets the message to encode with PDF417 ASP.NET control

```
[Visual Basic .NET]  
Public Property Data As String
```

```
[C#]  
public string Data {get; set;}
```

Remarks

The default value is "1234".

4.1.5 ErrorCorrectionLevel Property

Gets or sets the error correction level of the PDF417 barcode.

[Visual Basic .NET]

```
Public Property ErrorCorrectionLevel As enumECLevel
```

[C#]

```
public enumECLevel ErrorCorrectionLevel {get; set;}
```

4.1.6 HandleTilde Property

Gets or sets a boolean flag indicating whether to process the tilde character "~" or not.

[Visual Basic .NET]

```
Public Property HandleTilde As Boolean
```

[C#]

```
public bool HandleTilde {get; set;}
```

Remarks

If this property is set to TRUE, non-printable characters can be passed to PDF417 ASP.NET web control by using the tilde character, "~dNNN" represents the ASCII character encoded by the 3 digits NNN, for example, "~d010" represents the character LF (line feed).

4.1.7 Mode Property

Gets or sets the encoding mode of the PDF417 barcode.

[Visual Basic .NET]

```
Public Property Mode As enumMode
```

[C#]

```
public enumMode Mode {get; set;}
```

4.1.8 NarrowBarWidth Property

Gets or sets the narrow bar width in centimeters.

[Visual Basic .NET]

```
Public Property NarrowBarWidth As float
```

[C#]

```
public float NarrowBarWidth {get; set;}
```

Remarks

The default value is 0.07, internally our PDF417 ASP.NET control converts narrow bar width from centimeters to pixels based on the device resolution, round up or round down float pixel value to the nearest integer.

The centimeter to pixel conversion formula is :

$$size_in_pixels = size_in_centimeters * device_resolution / 2.54$$

For example, if you render barcode on computer screen and the screen resolution is 96dpi.

(1) Set NarrowBarWidth property to 0.04, $size_in_pixels = 0.04 * 96 / 2.54 = 1.5118$, round up 1.5118 to 2, so actual narrow bar width is 2 pixels.

(2) Set NarrowBarWidth property to 0.06, $size_in_pixels = 0.06 * 96 / 2.54 = 2.2677$, round down 2.2677 to 2, so actual narrow bar width is 2 pixels.

(3) Set NarrowBarWidth property to 0.07, $size_in_pixels = 0.07 * 96 / 2.54 = 2.6456$, round up 2.6456 to 3, so actual narrow bar width is 3 pixels.

Different NarrowBarWidth property values might end up with same narrow bar width in pixels due to performing rounding operations.

4.1.9 Orientation Property

Gets or sets the orientation of the PDF417 barcode.

[Visual Basic .NET]

```
Public Property Orientation As enumOrientation
```

[C#]

```
public enumOrientation Orientation {get; set;}
```

4.1.10 Rows Property

Gets or sets the preferred number of the rows for the PDF417 barcode.

[Visual Basic .NET]

```
Public Property Rows As Integer
```

[C#]

```
public int Rows {get; set;}
```

Remarks

Typically this property value should be between 3 and 90.

4.1.11 TruncateSymbol Property

Gets or sets a boolean flag indicating whether the right side of the PDF417 barcode should be removed or not.

```
[Visual Basic .NET]
```

```
Public Property TruncateSymbol As Boolean
```

```
[C#]
```

```
public bool TruncateSymbol {get; set;}
```

4.1.12 Y2XRatio Property

Gets or sets the ratio of the height of the row to the width of the narrow element.

```
[Visual Basic .NET]
```

```
Public Property Y2XRatio As float
```

```
[C#]
```

```
public float Y2XRatio {get; set;}
```

Remarks

The default value is 3.0, typically this property value is between 3 and 6.

4.2 Methods

4.2.1 GetActualSize Method

Gets the actual size of the PDF417 barcode which is rendered onto the computer screen.

```
[Visual Basic .NET]
```

```
Public Sub GetActualSize(ByRef ActualWidth As Integer, ByRef ActualHeight As Integer)
```

```
[C#]
```

```
public void GetActualSize(ref int ActualWidth, ref int ActualHeight);
```

Parameters

ActualWidth

A pointer to the variable that receives the width of the PDF417 barcode (in pixels).

ActualHeight

A pointer to the variable that receives the height of the PDF417 barcode (in pixels).

4.2.2 Render Method

Renders the PDF417 barcode onto the device such as a computer monitor or a printer.

[Visual Basic .NET]

```
Public Sub Render(ByVal renderG As Graphics, ByVal p As Point)
```

[C#]

```
public void Render(Graphics renderG, Point p);
```

Parameters

renderG

Graphics object to be used for rendering.

p

Stores the coordinates (in pixels) of the top-left corner of the PDF417 barcode.

4.2.3 SetSize Method

Sets the size of the image which contains the PDF417 barcode.

[Visual Basic .NET]

```
Public Sub SetSize(ByVal Width As Integer, ByVal Height As Integer)
```

[C#]

```
public void SetSize(int Width, int Height);
```

Parameters

Width

The width, in pixels, of the image.

Height

The height, in pixels, of the image.

Remarks

First call `GetActualSize()` method to obtain the actual size of PDF417 barcode, then use this method to set image size by adding surrounding white space around the PDF417 barcode.

See Also

`GetActualSize()` Method

4.3 Enumerations

4.3.1 ECLevel Enumeration

An enumeration type for all possible error correction level values.

Members

Name	Comment
ecl_0	Error Correction Level 0
ecl_1	Error Correction Level 1
ecl_2	Error Correction Level 2
ecl_3	Error Correction Level 3
ecl_4	Error Correction Level 4
ecl_5	Error Correction Level 5
ecl_6	Error Correction Level 6
ecl_7	Error Correction Level 7
ecl_8	Error Correction Level 8

4.3.2 Mode Enumeration

An enumeration type for all possible encoding mode values.

Members

Name	Comment
mdBinary	Binary mode
mdText	Text mode
mdAuto	Auto mode

4.3.3 Orientation Enumeration

An enumeration type for all possible orientation values.

Members

Name	Comment
or0	0 Degree
or90	90 Degrees
or180	180 Degrees
or270	270 Degrees

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