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# 1 Introduction

MW6 lightweight MaxiCode 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.

MaxiCode is a fixed-sized 2D symbology created by the United Parcel Service, it can store about 93 characters of information and is primarily used for freight sortation and tracking.

# 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 MaxiCode ASP.NET web control displays the "MW6 Demo" on the top of MaxiCode barcode.

2. Copy "MW6.ASPNET.MaxiCode.dll" to the bin folder of the IIS server, for example, you can copy MW6.ASPNET.MaxiCode.dll to the folder "c:\Inetpub\wwwroot\bin".

3. Copy Demo.html, CreateImgVB.aspx, CreateImgCS.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 MaxiCode 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 MaxiCode 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 MaxiCode 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 CountryCode Property

Gets or sets the 3-digit country code.

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

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

**Remarks**

The default value is blank, if the "Data" property is properly formatted and begins with the 7 characters "[)><RS>01<GS>", this property will be automatically overridden.

**See Also**

Special Format Data

### 4.1.4 Data Property

Gets or sets the message to encode with MaxiCode .NET control.

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

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

**Remarks**

The default value is "12".

**See Also**

Special Format Data

### 4.1.5 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 MaxiCode .NET 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).

### 4.1.6 Mode Property

Gets or sets the encoding mode of the MaxiCode barcode.

```
[Visual Basic .NET]
Public Property Mode As enumMode
```

```
[C#]
public enumMode Mode {get; set;}
```

### 4.1.7 Orientation Property

Gets or sets the orientation of the MaxiCode barcode.

```
[Visual Basic .NET]
Public Property Orientation As enumOrientation
```

```
[C#]
public enumOrientation Orientation {get; set;}
```

### 4.1.8 Ratio Property

Gets or sets the ratio value which is used to enlarge or shrink the MaxiCode barcode.

[Visual Basic .NET]

```
Public Property Ratio As float
```

[C#]

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

**Remarks**

The default value is 1, a valid value must be between 0.7 and 3.

### 4.1.9 ServiceClass Property

Gets or sets the service class.

[Visual Basic .NET]

```
Public Property ServiceClass As String
```

[C#]

```
public string ServiceClass {get; set;}
```

**Remarks**

The default value is blank, if the "Data" property is properly formatted and begins with the 7 characters "[)><RS>01<GS>", this property will be automatically overridden.

**See Also**

Special Format Data

### 4.1.10 ZipCode Property

Gets or sets the zip code.

[Visual Basic .NET]

```
Public Property ZipCode As String
```

[C#]

```
public string ZipCode {get; set;}
```

**Remarks**

The default value is blank, if the "Data" property is properly formatted and begins with the 7 characters "[)><RS>01<GS>", this property will be automatically overridden.

**See Also**

Special Format Data

## 4.2 Methods

### 4.2.1 GetActualSize Method

Gets the actual size of the MaxiCode 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 MaxiCode barcode (in pixels).

*ActualHeight*

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

### 4.2.2 Render Method

Renders the MaxiCode 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 MaxiCode barcode.

### 4.2.3 SetSize Method

Sets the size of the image which contains the MaxiCode 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 the MaxiCode barcode, then use this method to set image size by adding surrounding white space around the MaxiCode barcode.

**See Also**

GetActualSize() Method

### 4.2.4 SetStructuredAppend Method

Specifies which symbol this is in a sequence and the total number of symbols in the sequence.

```
[Visual Basic .NET]
Public Sub SetStructuredAppend(ByVal AllowSA As Boolean, _
                               ByVal SymbolID As Integer, _
                               ByVal SymbolCount As Integer)
```

```
[C#]
public void SetStructuredAppend(bool AllowSA,
                                int SymbolID,
                                int SymbolCount);
```

**Parameters**

*AllowSA*

Indicates whether the structured append is allowed in the current MaxiCode barcode, if this is FALSE, the parameters *SymbolID* and *SymbolCount* are irrelevant.

*SymbolID*

Specifies which symbol this is in a sequence, the parameter must be between 1 and *SymbolCount*.

*SymbolCount*

Specifies the total number of symbols in the sequence, the maximum value is 26, which means that up to 26 symbols can be linked together using the structured append protocol.

**Remarks**

Don't call this method if you don't need the structured append feature.

## 4.3 Enumerations

### 4.3.1 Mode Enumeration

An enumeration type for all possible encoding mode values.

**Members**

| Name | Comment |
|---|---|
| mdMode2 | Mode 2 |
| mdMode3 | Mode 3 |
| mdMode4 | Mode 4 |
| mdMode5 | Mode 5 |

### 4.3.2 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 |

# 5 Special Format Data

If the "Data" property is properly formatted and begins with the 7 characters "[)><RS>01<GS>", Zipcode, Country and ServiceClass properties will be automatically overridden.

For example, let's set the "Data" property to the following value:

[)><RS>01<GS>9615238<GS>840<GS>001<GS>AIM, Inc<GS>634 Alpha Drive<GS>Pittsburgh<GS>PA<RS><EOT>

In this format, the identifier "[)><RS>01<GS>" is followed by a date (YY), in this example, it is "96".

The above data is encoded in a particular manner as follows:

1) The first 9 data characters [)><RS>01<GS>YY are extracted

2) The next 3 data elements separated by <GS>, representing respectively the zip code, country code and service class, are extracted and encoded in the primary message. In this example, they are 15238, 840 and 001, so Zipcode, Country and ServiceClass properties are automatically overridden.

3) The remaining string preceded with [)><RS>01<GS>YY is encoded in the secondary message. In this example, it is

[)><RS>01<GS>YYAIM, Inc<GS>634 Alpha Drive<GS>Pittsburgh<GS>PA<RS><EOT>

**Remarks:**

<RS>, <GS> and <EOT> indicate 3 characters with ASCII values 30, 29 and 4 respectively.

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