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# 1 Introduction

MW6 PDF417 .NET CF package has three 100% managed code libraries for Pocket PC, Windows CE and Smartphone platforms, the libraries can generate PDF417 format pattern data and your applications can use this pattern data to render PDF417 barcode onto any device.

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.

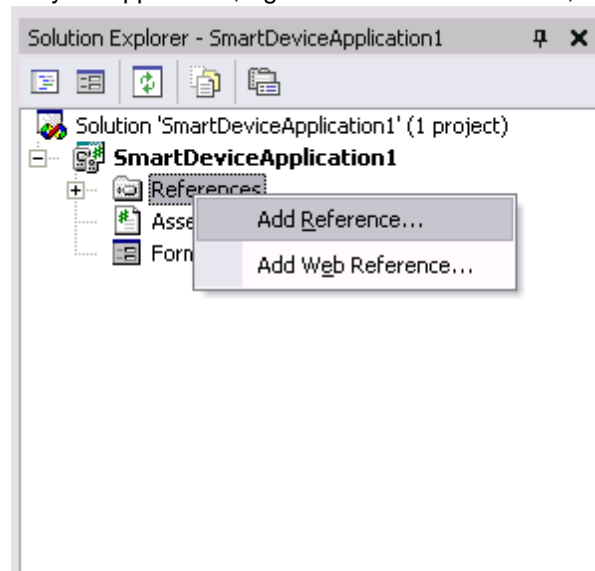
## 2 Installation

### 2.1 Trial Version

1. The trial version PDF417 .NET CF libraries append "MW6 Demo" to the string encoded with the PDF417 format.
2. After the installation for the trial version is finished, depending on your application platform, copy corresponding PDF417 .NET CF library file in VB.NET or C# demo sub folder of the destination folder (e.g. "C:\Program Files\MW6 .NET CF\PDF417\Platform\_Name") to your project folder.

Platform Name	Library Name
Pocket PC	MW6.PDF417PC.dll
Windows CE	MW6.PDF417CE.dll
Smartphone	MW6.PDF417SP.dll

3. In "Solution Explorer" for your application, right-click on "References", click on "Add Reference".



4. In "Add Reference" dialog, click on "Browse", locate PDF417 .NET CF library file for your platform, click on "Open" to return to "Add Reference" dialog, click on "OK". If a message box ("The reference MW6.PDF417XX.DLL may or may not be valid for the active platform...") pops up, click on "OK" and continue.
-

5. Add PDF417 .NET CF library related code to your application.

## 2.2 Full Version

1. Uninstall the trial version PDF417 .NET CF libraries if applicable.
2. Complete the installation for the full version PDF417 .NET CF libraries, copy the corresponding library .dll in VB.NET or C# demo project sub folder in the destination folder (e.g. "C:\Program Files\MW6 .NET Components\PDF417") to your project folder to replace the trial version PDF417 .NET CF libraries .dll file.

## 3 Reference Guide

### 3.1 Properties

#### 3.1.1 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.

#### 3.1.2 Data Property

Gets or sets the message to encode with PDF417 .NET CF library

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

```
Public Property Data As String
```

```
[C#]
```

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

#### Remarks

The default value is "1234".

#### 3.1.3 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;}
```

### 3.1.4 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 .NET CF library 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).

### 3.1.5 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;}
```

### 3.1.6 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.

---

### 3.1.7 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;}
```

## 3.2 Methods

### 3.2.1 GetPatternData Method

Gets the PDF417 barcode pattern matrix data.

[Visual Basic .NET]

```
Public Function GetPatternData(ByRef Buffer() As Char, _  
                               ByRef Size As Long, _  
                               ByRef Rows As Integer, _  
                               ByRef Columns As Integer) As Boolean
```

[C#]

```
public bool GetPatternData(ref char[] Buffer,  
                           ref long Size,  
                           ref int Rows,  
                           ref int Columns);
```

#### Parameters

##### *Buffer*

Pointer to a buffer that receives the character stream ('1's and '0's) storing the PDF417 barcode pattern matrix data row by row from the top left matrix corner, '1' indicates the narrow bar and '0' indicates the narrow space.

If the function fails and the variable pointed to by *Size* returns the required buffer size, in characters.

##### *Size*

[in/out] On input, specifies the size, in characters, of the *Buffer*. On output, receives the size, in characters, of the PDF417 barcode pattern matrix ('1's and '0's).

##### *Rows*

A pointer to the variable that receives the number of the rows for the pattern matrix.

##### *Columns*

A pointer to the variable that receives the number of the columns for the pattern matrix..

### Return Value

If the function succeeds, the return value is a nonzero value, otherwise the return value is zero.

### Remarks

You can use this method to obtain the PDF417 barcode pattern matrix data and render the PDF417 barcode onto any device such as the printer, only *Columns*, *Data*, *ErrorCorrectionLevel*, *HandleTilde*, *Mode*, *Rows* and *TruncateSymbol* properties affect the pattern matrix data output.

If you want to create a rotated barcode (90 degrees, 180 degrees or 270 degrees), rotate pattern matrix accordingly before you render the PDF417 barcode onto a device.

For 0-degree or 180-degree rotated PDF417 barcode, the ratio of the height to the width for the rectangles (the narrow bar and the narrow space) must be between 3 and 6.

For 90-degree or 270-degree rotated PDF417 barcode, the ratio of the width to the height for the rectangles (the narrow bar and the narrow space) must be between 3 and 6.

## 3.3 Enumerations

### 3.3.1 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

### 3.3.2 Mode Enumeration

An enumeration type for all possible encoding mode values.

#### Members

Name	Comment
mdBinary	Binary mode
mdText	Text mode

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mdAuto

Auto mode

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