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## What is Barcode

A barcode is an optical machine-readable representation of certain data. Originally barcodes systematically represented data by varying the widths and spacings of parallel lines, and may be referred to as linear or one-dimensional (1D). Later they evolved into rectangles, dots, hexagons and other geometric patterns in two dimensions (2D). Although 2D systems use a variety of symbols, they are generally referred to as barcodes as well.<sup>[1]</sup>

## How does Barcode reader work in ImageCapture Suite?

ImageCapture Suite is designed for web applications. So we provide two options for you to add barcode reading feature to your web application:

- Deploy the barcode module on the server side with the help of [Dynamic .NET TWAIN](#). The client machine needs to upload the documents to the server, and then the server performs barcode reading and returns the result to the client machine. Only Windows server is supported in this case. You can check out how barcode reading is done on [this demo page](#).
- Or you can deploy the barcode module on the client machine together with ImageCapture Suite. In this case, every time the client reads barcode, the result is returned locally. Compared to the last option, it's faster and it doesn't add load to your server which can be Windows, Linux, or even Mac etc.

In this document, we talk about the 2<sup>nd</sup> option - how to deploy barcode module on the client machine.

## Use Dynamsoft Barcode Reader in ImageCapture Suite

### Check Barcode Reader version and status

Before we use the barcode reader, we need to check and see whether the component has been installed on the client machine and whether it is the same version as deployed on the server. To do that, we can use the property [BarcodeVersion](#):

```
if (DWObject. BarcodeVersion!= '8, 2, 0, 0') {  
    //not installed or not version 8.2.0.0  
}  
else {  
    //installed and version is 8.2.0.0  
}
```

Ok, so what should we do if the component is not installed yet or need to be updated? We can deploy the component to the client from the server.

### Deploy Barcode Reader to your clients

To do this, we use the method [HTTPDownloadResource](#). It will download a zip file which contains the required files of the barcode reader and deploy the files to the client machine. If old files already exist, they will be replaced. After the deployment, the client should be able to use the component locally.

*\*The zip file contains the barcode DLLs (DynamicBarcode.dll & DynamicBarcode64.dll). You can find the zip file in the installation folder of ImageCapture Suite.*

For example, if you place the zip file under <http://yourServer/download/barcode.zip>, you can use the code below to download and deploy Barcode:

```
DWObject.HTTPDownloadResource("yourServer", "/download/barcode.zip", "barcode.zip");
```

**Note:** please make sure the client can access the zip file from the URL.

## Read Barcode

Below is a simple sample on how to read barcode with the method [ReadBarcode](#):

```
DWObject.ReadBarcode(DWObject.CurrentImageIndexInBuffer, 4); //Read CODE_39 barcode from the current image
var count = DWObject.BarcodeCount; //How many barcodes are detected.
for (i = 0; i < count; i++) {
    var text = DWObject.GetBarcodeText(i); //Get the text
    var x = DWObject.GetBarcodeInfo(0, i); //Get the x-coordinate
    var y = DWObject.GetBarcodeInfo(1, i); //Get the y-coordinate
    var type = DWObject.GetBarcodeInfo(2, i); //Get the barcode type
    var len = DWObject.GetBarcodeInfo(5, i); //Get the length of the barcode
}
```

We provide several different methods for reading barcode:

<a href="#">ReadBarcode</a>	<a href="#">ReadBarcodeEx</a>	<a href="#">ReadBarcodeEx1</a>
<a href="#">ReadBarcodeDirectly</a>	<a href="#">ReadBarcodeDirectlyEx</a>	<a href="#">ReadBarcodeDirectlyEx1</a>

## More Info

For more Barcode-related properties & methods, you can check out:  
<http://www.dynamsoft.com/Products/barcode-detection-decode.aspx>  
<http://www.dynamsoft.com/help/ICS/index.htm>

->**Methods->Barcode Related**

->**Properties-> Barcode Related**

References:

[1] <http://en.wikipedia.org/wiki/Barcode>