

Create a Datamatrix symbol with cell height greater than 20 pixels

Description

Loftware does not support the ability to print datamatrix symbols with cell heights of more than 20 pixels, but the printer supports this natively.

Creating a label with a Datamatrix symbol and attempt to set the Cell Height to a value greater than 20. The Cell Height is automatically reset to 20.

The solution is to design a label combining the use of field level scripting and ZPL or IPL pass through.

Requirements

A printer that supports native printing of Datamatrix barcodes in IPL or ZPL language.

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Create a label with 5 text fields.

Field 1: This field must be named with a "pfield" prefix that designates this field as a Printer Language Pass Through field (Name: pfield1)

Note: The pass through field can be any variable field. I chose to use a datamatrix symbol in this case to make the intention of the pass through clear.

Field 2: This field will accept the data to be encoded in the datamatrix symbol (Name: Input)

Field 3: This field will accept the location in pixels of the symbology (Name: Location)

Field 4: This field will accept the size in pixels of the datamatrix cells (Name: CellHeight)

Field 5: This is the script field.

ZPL Script Example:

```
// Original Print to File ^FO70,115^BXN,20,200,0,0,6,_  
^FV12345678901234567890123456789012345678901234567890^FS
```

Go to [Online ZPL Viewer](#) to view the above ZPL print stream

```
var cellHeight =  
String(label.fields.field.(@name=='CellHeight')  
.@data);  
var input =  
String(label.fields.field.(@name=='Input').@dat  
a);  
var loc =  
String(label.fields.field.(@name=='Location').@  
data);  
var output = "^FO" + loc + "^BXN," + cellHeight  
+ ",200,0,0,6,_" + input + "^FS";  
label.fields.field.(@name=='pfield1').@data =  
output;
```

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Versions

Loftware version 10.x and higher

Environment

Any Supported Loftware Environment

Rate

IPL Script Example:

```
// Original Print to File:  
<STX>B0,datamatr;o2300,100;f3;h20;w20;i0;c17,200,0,0,0,1,1;d3,ABCDEF  
GHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNQRSTUUVWX;D39;<ETX>
```

Please note the field origin coordinate system for Intermec is rotated 90 degrees

```
var cellHeight =  
String(label.fields.field.(@name=='CellHeight')  
.@data);  
var input =  
String(label.fields.field.(@name=='Input').@dat  
a);  
var loc =  
String(label.fields.field.(@name=='Location').@  
data);  
var output = "<STX>B0,ptfield1;o" + loc +  
";f3;h20;w" +  
cellHeight + ";i0;c17,200,0,0,0,1,1;d3," +  
input + ";D39;<ETX>";  
label.fields.field.(@name=='ptfield1').@data =  
output;
```

Result

The label produced will have a datamatrix barcode of the size, location, and data specified during data entry.

Note: Print Preview, and Design will NOT properly represent the output in this situation.

Related Articles

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