

Creating a Label with a Barcode

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This document will outline how to include a 1 dimensional barcode into a label.

Please be familiar with *Label Printing Basics* before reading this document.

Begin by downloading and installing a barcode font such as *IDAutomationHC39M Free Version*.

In the example shown here, the Serial Number will be printed as a barcode.

In *VSReport Designer*, modify the template as desired. Select the Serial Number field and change the font to a custom font. Note: *VSReport Designer* will not accept a barcode font.

Text will also have to be modified for the barcode to be read correctly: the text must begin and end with the * character. For example,



will not be read by a barcode scanner



will be read as 123 by a barcode scanner

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The screenshot shows a barcode label creation software interface. The left pane displays a design grid with a header section containing a 'Part number' field and a 'Serial number' field. The 'Serial number' field contains a formula: `IIf([Fixed Serial Number] = "", TRIM([Incremental Serial Number]))" & TRIM([Fixed Serial Number]) & "-" &`. The right pane is a 'Field Properties' window with a list of properties and their values. A red arrow points from the text 'Select the Serial Number field' to the 'Text' property in the 'Field Properties' window, which is also circled in red. The 'Text' property value is `IIf([Fixed Serial Number] = "", TRIM([Incremental Serial Number]))" & TRIM([Fixed Serial Number]) & "-" &`. A tooltip for the 'Text' property is visible at the bottom of the window, stating: 'Returns or sets the Field name.'

Header

Part number: [DUT Part Number]

Serial number: IIf([Fixed Serial Number] = "", TRIM([Incremental Serial Number]))" & TRIM([Fixed Serial Number]) & "-" &

Page Header

Wavelength IIf([Wavelength 2] <> End A End B End A End B

Fiber	IL	Refl.	IL	Refl.	IL	Refl.	IL	Refl.
-------	----	-------	----	-------	----	-------	----	-------

Detail

Fiber	IL	Refl.	IL	Refl.	IL	Refl.	IL	Refl.
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Page Footer

Footer

Field Properties

Property	Value
Check Box	0 - vsrNoCheckBox
Font	Atlanta
Force Page Break	0 - vsrNone
ForeColor	0x00000000
Format	
Height	600
Hide Duplicates	False
Left	1350
Line Slant	0 - vsrLSNoLine
Line Spacing	0
Line Width	0
Link Target	
Margin Bottom	0
Margin Left	0
Margin Right	0
Margin Top	0
Picture	
Picture Align	0 - vsrPALeft Top
RTF	False
Running Sum	0 - vsrNoRunningSum
Subreport	
Tag	
Text	IIf([Fixed Serial Number] = "", TRIM([Incremental Serial Number]))" & TRIM([Fixed Serial Number]) & "-" &

Select the Serial Number field

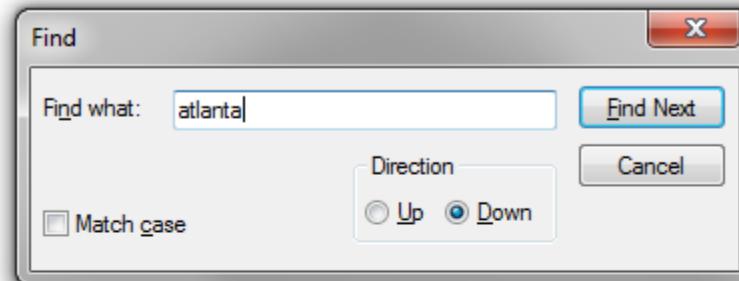
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The text may be difficult to modify in *VSReport Designer*. The .xml file will have to be edited directly in *Notepad* so it may be preferable to modify the text there as well.

Save the template and open the .xml file in *Notepad*.

Search for the custom font.

```
<Section>1</Section>
<Text>[DUT Part Number]</Text>
<Calculated>-1</Calculated>
<Left>1170</Left>
<Width>4785</Width>
<Height>270</Height>
<Align>6</Align>
<CanGrow>-1</CanGrow>
<CanShrink>-1</CanShrink>
<Font>
  <Size>9.75</Size>
</Font>
</Field>
<Field>
  <Name>fldSerialNumber</Name>
  <Section>1</Section>
  <Text>IIF([Fixed Serial Number] = "", TRIM([Incremental Serial Number]), "*" & TRIM([Fi
" & TRIM([Incremental Serial Number] & "*"))</Text>
  <Calculated>-1</Calculated>
  <Left>1350</Left>
  <Top>270</Top>
  <Width>5865</Width>
  <Height>600</Height>
  <Align>6</Align>
  <CanGrow>-1</CanGrow>
  <CanShrink>-1</CanShrink>
  <Font>
    <Name>Atlanta</Name>
```



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Modify the `<text>` field to include the * character before and after the serial number.

Before:

```
<Text>IIf([Fixed Serial Number] = "", TRIM([Incremental Serial  
Number]), TRIM([Fixed Serial Number]) & " - " &  
TRIM([Incremental Serial Number]))</Text>
```

After:

```
<Text>IIf([Fixed Serial Number] = "", TRIM([Incremental Serial  
Number]), "*" & TRIM([Fixed Serial Number]) & " - " &  
TRIM([Incremental Serial Number] & "*"))</Text>
```

Modify the `` field to the barcode font.

Before:

```
<Name>Atlanta</Name>
```

After:

```
<Name>IDAutomationHC39M Free Version</Name>
```

Save the .xml file. Note: if you open/save the template file in *VSReport Designer*, the barcode font will revert to the default font and you will have to repeat the above step.

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Final notes:

- Barcode fonts can affect the formatting around them. You may need to preview and test print some labels to fine-tune the formatting and spacing.
- Every time you modify the template in *VSReport Designer*, you must go back and modify the font to the barcode font in *Notepad*.
- Currently MS12001 cannot incorporate 2 dimensional barcodes such as QR codes.
- A future release of MS12001 or equivalent program will have better barcode integration including 2 dimensional barcodes.

For further assistance, please email support@jgoptics.com