Manual for MW6 Crystal Reports UFL

Title page 1

Use this page to introduce the product

by MW6 Technologies, Inc.

*This is "Title Page 1" - you may use this page to introduce
your product, show title, author, copyright, company logos,
etc.*

*This page intentionally starts on an odd page, so that it is on
the right half of an open book from the readers point of view.
This is the reason why the previous page was blank (the
previous page is the back side of the cover)*

Manual for MW6 Crystal Reports UFL

Special thanks to:

All the people who contributed to this document, to mum and dad and grandpa, to my sisters and brothers and mothers in law, to our secretary Kathrin, to the graphic artist who created this great product logo on the cover page (sorry, don't remember your name at the moment but you did a great work), to the pizza service down the street (your daily Capricciosas saved our lives), to the copy shop where this document will be duplicated, and and and...

Last not least, we want to thank EC Software who wrote this great help tool called HELP & MANUAL which printed this document.

Table of Contents

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Foreword

This is just another title page
placed between table of contents
and topics

Top Level Intro

This page is printed before a new
top-level chapter starts

Part

I

1   How to Use It

1. For 32-bit version of Crystal Reports, unzip UFL_32.ZIP and put CRUFLOneD.dll in SysWow64 folder (64-bit version of Windows OS) or system32 folder (32-bit version of Windows OS). Run the following command as "**Run as administrator**", and the **ver_num** is the version number for 32-bit version of .NET framework.

   C:\Windows\Microsoft.NET\Framework**ver_num**\RegAsm.exe /codebase C:\Windows \SysWow64\CRUFLOneD.dll

		Name ^	Date modified	Type	Size
		URTInstallPath_GAC	2017-03-11 4:47 PM	File folder	
		v1.0.3705	2016-09-24 4:09 AM	File folder	
		v1.1.4322	2016-09-24 4:09 AM	File folder	
		v2.0.50727	2017-06-15 10:06 ...	File folder	
		v3.0	2016-09-24 5:36 AM	File folder	
		v3.5	2017-03-11 4:30 PM	File folder	
		v4.0.30319	2017-07-15 9:00 AM	File folder	
		VJSharp	2016-03-12 3:19 PM	File folder	

Windows > Microsoft.NET > Framework >
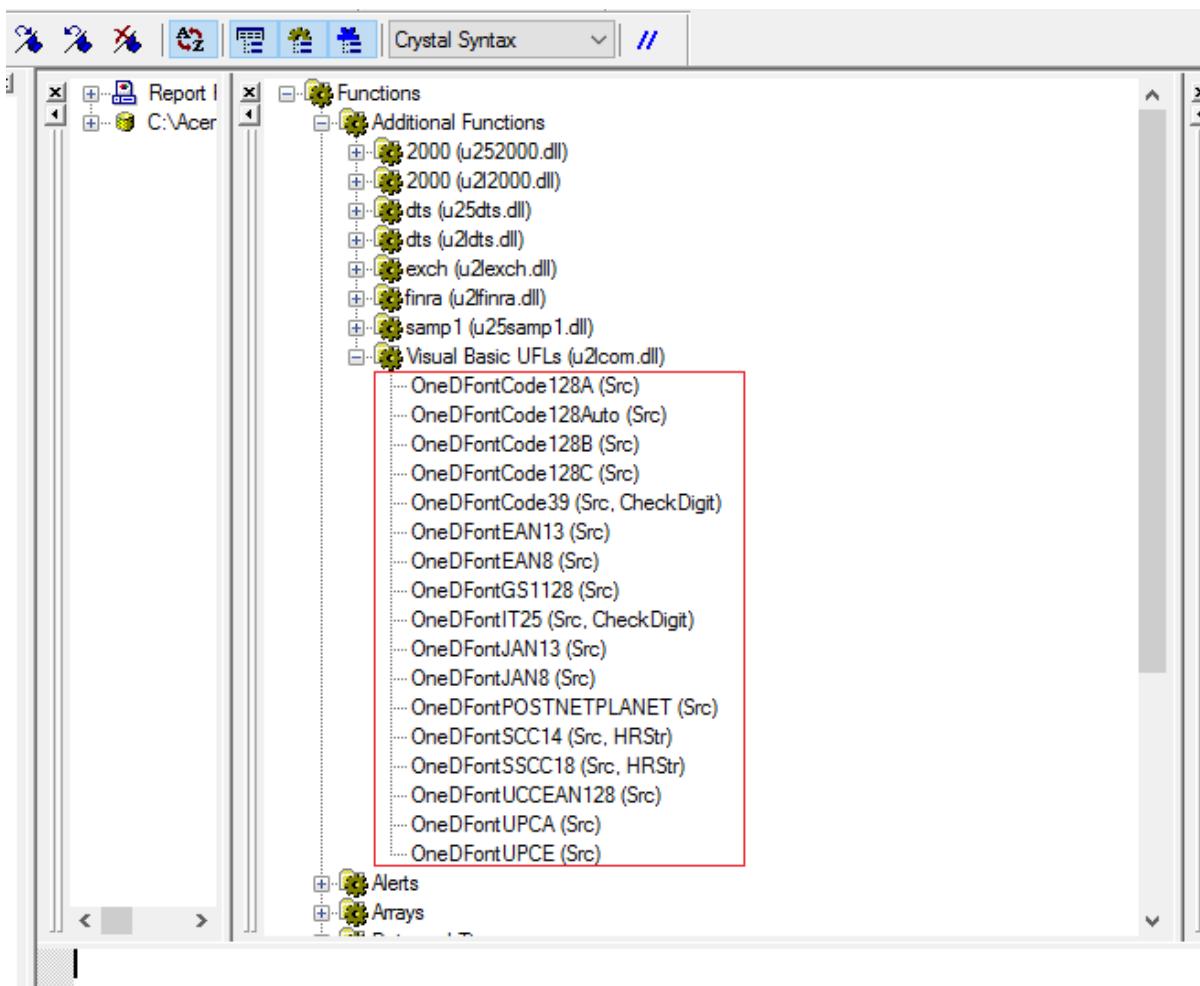
2. For 64-bit version of Crystal Reports, unzip UFL_64.ZIP and put CRUFLOneD.dll in system32 folder. Run the following command as "**Run as administrator**", and the **ver_num** is the version number for 64-bit version of .NET framework.

   C:\Windows\Microsoft.NET\Framework64**ver_num**\RegAsm.exe /codebase C:\Windows \System32\CRUFLOneD.dll

Windows > Microsoft.NET > Framework64 >

		Name ^	Date modified	Type	Size
		v2.0.50727	2017-06-15 10:06 ...	File folder	
		v3.0	2016-09-24 5:36 AM	File folder	
		v3.5	2016-09-24 5:36 AM	File folder	
		v4.0.30319	2017-07-15 9:00 AM	File folder	
		sbscmp10.dll	2016-07-16 5:43 AM	Application extens...	9 KB
		sbscmp20_mscorwks.dll	2016-07-16 5:43 AM	Application extens...	9 KB
		sbscmp20_perfcounter.dll	2016-07-16 5:43 AM	Application extens...	9 KB
		SharedReg12.dll	2016-07-16 5:43 AM	Application extens...	9 KB
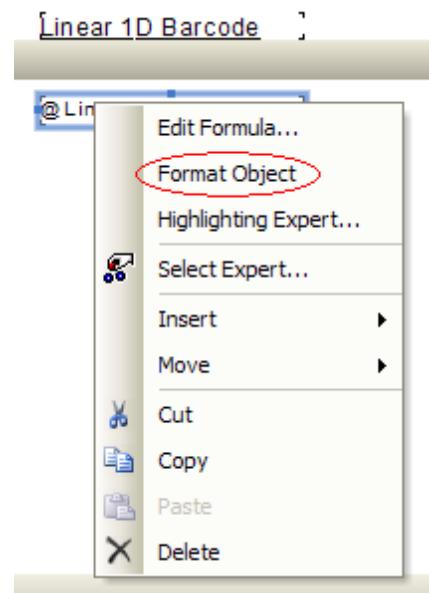
3. Open up Crystal Reports, go to "**Field Explorer**", right click on "**Formula Fields**", click on "**New**", enter "**Linear 1D Barcode**", select an appropriate encoder function and pass a table field to that function, then click "**Save**" and close this window.
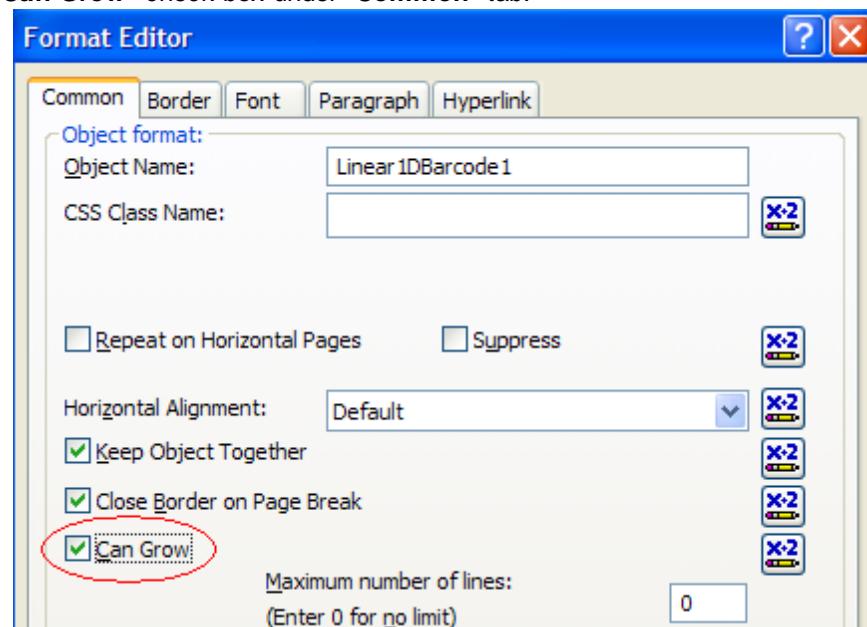
4. Click on the formula field "**Linear 1D Barocde**" and drag it on the report.
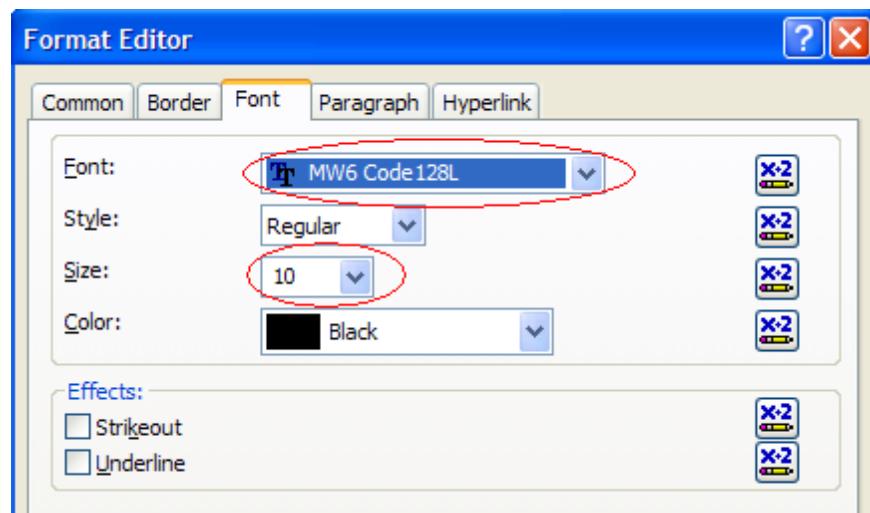
5. Right-click "**@Linear 1D Barcode**" and choose "**Format Object**".

Linear 1D Barcode

@Lin...

Edit Formula...

Format Object

Highlighting Expert...

Select Expert...

Insert   ▶

Move   ▶

Cut

Copy

Paste

Delete

6. Toggle on "**Can Grow**" check box under "**Common**" tab.

Format Editor

Common | Border | Font | Paragraph | Hyperlink

Object format:

Object Name: Linear1DBarcode1

CSS Class Name:

☐ Repeat on Horizontal Pages   ☐ Suppress

Horizontal Alignment: Default

☑ Keep Object Together

☑ Close Border on Page Break

☑ Can Grow

Maximum number of lines:
(Enter 0 for no limit)   0
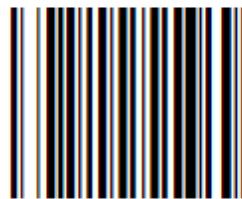
7. Click "**Font**" tab, choose one corresponding font as the font name. For example, if you wish to create Code128 barcode, choose one of 6 available code128 fonts as the font option, and also you could change the font size to meet your barcode sizing requirements.

8. Run the report.
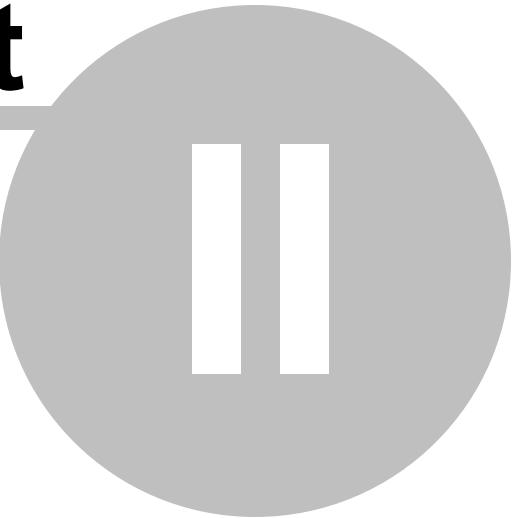
Linear 1D Barcode

Top Level Intro

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top-level chapter starts

Part

II

2 Functions

2.1 OneDFontCode39 Function

Encodes a string using Code39 format.

Public Function OneDFontCode39(ByVal Src As String, ByVal CheckDigit As Boolean) As String

Parameters

Src

String to be encoded using Code39 format.

Check Digit

Indicates whether a check digit character should be inserted into barcode string.

Return Value

Code39 format barcode string.

2.2 OneDFontCode128Auto Function

Encodes a string using Code128 (Auto) format.

Public Function OneDFontCode128Auto(ByVal Src As String) As String

Parameters

Src

String to be encoded using Code128 (Auto) format.

Return Value

Code128 (Auto) format barcode string.

2.3 OneDFontUCCEAN128 Function

Encodes a string using UCC/EAN128 format.

Public Function OneDFontUCCEAN128(ByVal Src As String) As String

Parameters

Src

String to be encoded using UCC/EAN128 format.

Return Value

UCC/EAN128 format barcode string.

2.4 OneDFontCode128A Function

Encodes a string using Code128 (Set A) format.

Public Function OneDFontCode128A(ByVal Src As String) As String

Parameters

Src

String to be encoded using Code128 (Set A) format.

Return Value

Code128 (Set A) format barcode string.

2.5 OneDFontCode128B Function

Encodes a string using Code128 (Set B) format.

Public Function OneDFontCode128B(ByVal Src As String) As String

Parameters

Src

String to be encoded using Code128 (Set B) format.

Return Value

Code128 (Set B) format barcode string.

2.6 OneDFontCode128C Function

Encodes a string using Code128 (Set C) format.

Public Function OneDFontCode128C(ByVal Src As String) As String

Parameters

Src

String to be encoded using Code128 (Set C) format.

Return Value

Code128 (Set C) format barcode string.

2.7 OneDFontEAN13 Function

Encodes a string using EAN13 format.

Public Function OneDFontEAN13(ByVal Src As String) As String

Parameters

Src

    String to be encoded using EAN13 format.

Return Value

EAN13 format barcode string.

2.8   **OneDFontEAN8 Function**

Encodes a string using EAN8 format.

Public Function OneDFontEAN8(ByVal Src As String) As String

Parameters

Src

    String to be encoded using EAN8 format.

Return Value

EAN8 format barcode string.

2.9   **OneDFontGS1128 Function**

Encodes a string using GS1 128 format.

Public Function OneDFontGS1128(ByVal Src As String) As String

Parameters

Src

    String to be encoded using GS1 128 format. For example, (01)12345678901234(3103)123456

Return Value

GS1 128 format barcode string.

2.10   **OneDFontJAN13 Function**

Encodes a string using JAN13 format.

Public Function OneDFontJAN13(ByVal Src As String) As String

Parameters

Src

    String to be encoded using JAN13 format.

Return Value

JAN13 format barcode string.

2.11 **OneDFontJAN8 Function**

Encodes a string using JAN8 format.

Public Function OneDFontJAN8(ByVal Src As String) As String

Parameters

Src

String to be encoded using JAN8 format.

Return Value

JAN8 format barcode string.

2.12 **OneDFontUPCA Function**

Encodes a string using UPC-A format.

Public Function OneDFontUPCA(ByVal Src As String) As String

Parameters

Src

String to be encoded using UPC-A format.

Return Value

UPC-A format barcode string.

2.13 **OneDFontUPCE Function**

Encodes a string using UPC-E format.

Public Function OneDFontUPCE(ByVal Src As String) As String

Parameters

Src

String to be encoded using UPC-E format.

Return Value

UPC-E format barcode string.

2.14 OneDFontIT25 Function

Encodes a string using Interleaved 2 of 5 format.

Public Function OneDFontIT25(ByVal Src As String, ByVal CheckDigit As Boolean) As String

Parameters

Src

String to be encoded using Interleaved 2 of 5 format.

Check Digit

Indicates whether a check digit character should be inserted into barcode string.

Return Value

Interleaved 2 of 5 format barcode string.

2.15 OneDFontPOSTNETPLANET Function

Encodes a string using Postnet / Planet format.

Public Function OneDFontPOSTNETPLANET(ByVal Src As String) As String

Parameters

Src

String to be encoded using Postnet / Planet format.
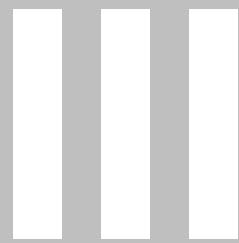
Return Value

Postnet / Planet format barcode string.

Top Level Intro

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# Part III
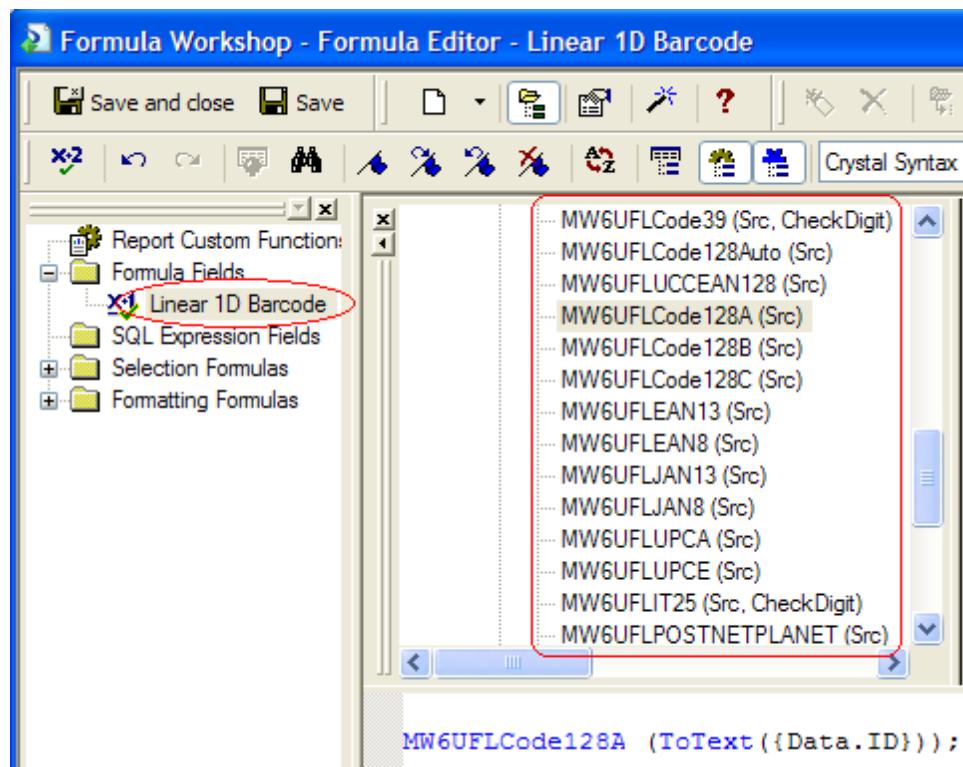
3   Legacy UFL

Since our Crystal Reports' UFL DLLs are based on the latest .NET technologies, they might not work properly for some earlier versions of Windows and/or Crystal Reports (e.g. XP and Crystal Reports 9.0), please use this **Legacy UFL** instead.

3.1   How to Use It
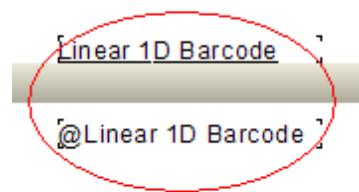
1. Go to the folder where u2lcom.dll is located and copy CRUFLMW6.dll there, and this folder varies depending on your version of Crystal Reports. If you are running a 64 bit version of Windows OS such as Windows Vista 64 bit or Windows 7 64 bit, you may need to look in "*C:\Program Files (x86)"* rather than *"C:\Program Files"* folder.

Version	Folder
Crystal Reports 14 (CR2011)	C:\Program Files\Common Files\Business Objects\3.0\bin
Crystal Reports 12 (CR2008)	C:\Program Files\Common Files\Business Objects\3.0\bin or C:\Program Files\Business Objects\BusinessObjects Enterprise 12.0 \win32_x86
Crystal Reports 11 R2 (XI R2)	C:\Program Files\Business Objects\common\3.5\bin
Crystal Reports 11 (XI)	C:\Program Files\Common Files\Business Objects\3.0\bin
Crystal Reports.Net 10.2	C:\Program Files\Common Files\Business Objects\2.7\Bin
Crystal Reports 10	C:\Program Files\Common Files\Crystal Decisions\2.5\bin
Crystal Reports 9	C:\Program Files\Common Files\Crystal Decisions\2.0\bin
Crystal Reports for Visual Studio 2003	C:\Program Files\Common Files\Crystal Decisions\1.1\bin
Crystal Reports.Net 1.0	C:\Program Files\Common Files\Crystal Decisions\1.0\bin
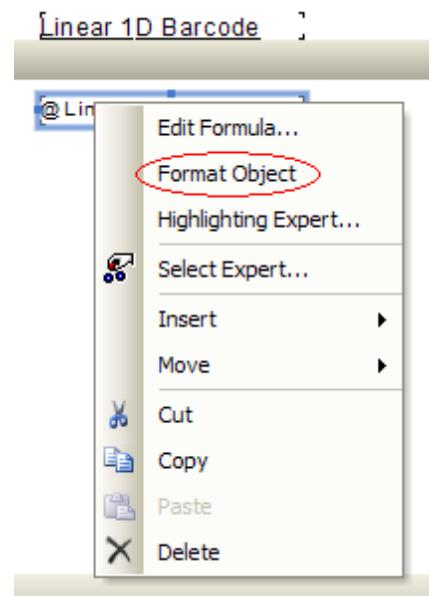
2. For Windows Vista or above, you need to use an elevated Command Prompt to run *regsvr32.exe* command, click "**Start"** > "**All Programs**" > "**Accessories**", right-click "**Command Prompt**", and then click "**Run**" as administrator.

3. For 32-bit version Windows OS, run "regsvr32 CRUFLMW6.dll" to register it and move to the step 5.

4. For 64-bit version Windows OS, run "C:\windows\SysWOW64\regsvr32 CRUFLMW6.dll" to register it.

5. Open up Crystal Reports, go to "**Field Explorer**", right click on "**Formula Fields**", click on "**New**", enter "**Linear 1D Barcode**", select an appropriate encoder function and pass a table field to that function, then click "**Save**" and close this window.
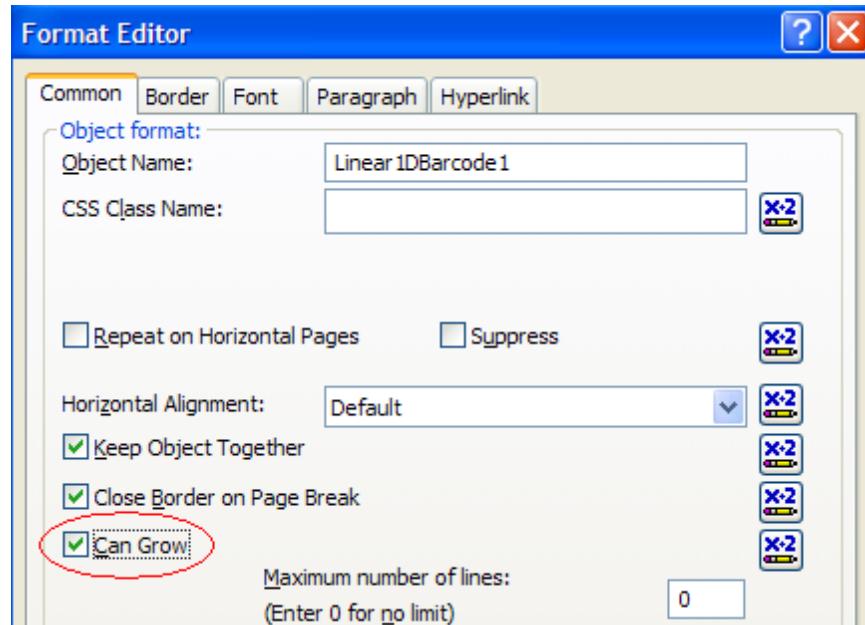
6. Click on the formula field "**Linear 1D Barocde**" and drag it on the report.
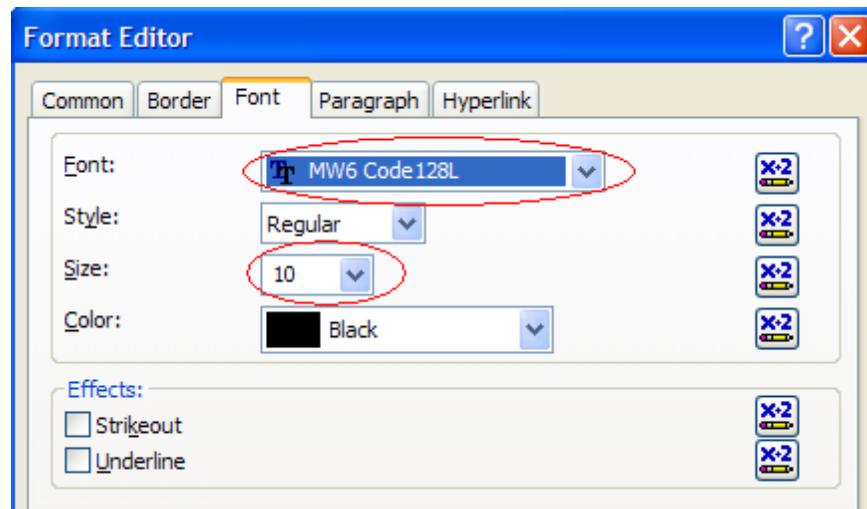
7. Right-click "**@Linear 1D Barcode**" and choose "**Format Object**".

Linear 1D Barcode

@ Lin
- Edit Formula...
- Format Object
- Highlighting Expert...
- Select Expert...
- Insert ▶
- Move ▶
- ✂ Cut
- 📋 Copy
- 📋 Paste
- ✕ Delete

8. Toggle on "**Can Grow**" check box under "**Common**" tab.

Format Editor

| Common | Border | Font | Paragraph | Hyperlink |

Object format:

Object Name: Linear 1DBarcode 1

CSS Class Name: [   ] X·2

☐ Repeat on Horizontal Pages   ☐ Suppress   X·2

Horizontal Alignment: Default   X·2
☑ Keep Object Together   X·2
☑ Close Border on Page Break   X·2
☑ Can Grow   X·2
        Maximum number of lines:
        (Enter 0 for no limit)   0

9. Click "**Font**" tab, choose one corresponding font as the font name. For example, if you wish to create Code128 barcode, choose one of 6 available code128 fonts as the font option, and also you could change the font size to meet your barcode sizing requirements.

10.Run the report.

Linear 1D Barcode

3.2   How to Distribute It

For the distribution purpose, you need to distribute a few appropriate MW6 font ttf file(s), Crystal Reports UFL (CRUFLMW6.dll), Crystal Reports Runtime (u2lcom.dll) and VB Runtime DLL (msvbvm60. dll), VB Runtime DLL already exists on most PCs and it can be found in the system folder.

3.3   Functions

3.3.1   Code39 Function

Encodes a string using Code39 format.

Public Function Code39(ByVal Src As String, ByVal CheckDigit As Boolean) As String

Parameters

Src

String to be encoded using Code39 format.

Check Digit

Indicates whether a check digit character should be inserted into barcode string.

Return Value

Code39 format barcode string.

3.3.2 Code128Auto Function

Encodes a string using Code128 (Auto) format.

Public Function Code128Auto(ByVal Src As String) As String

Parameters

Src

String to be encoded using Code128 (Auto) format.

Return Value

Code128 (Auto) format barcode string.

3.3.3 UCCEAN128 Function

Encodes a string using UCC/EAN128 format.

Public Function UCCEAN128(ByVal Src As String) As String

Parameters

Src

String to be encoded using UCC/EAN128 format.

Return Value

UCC/EAN128 format barcode string.

3.3.4 Code128A Function

Encodes a string using Code128 (Set A) format.

Public Function Code128A(ByVal Src As String) As String

Parameters

Src

String to be encoded using Code128 (Set A) format.

Return Value

Code128 (Set A) format barcode string.

3.3.5   Code128B Function

Encodes a string using Code128 (Set B) format.

Public Function Code128B(ByVal Src As String) As String

Parameters

Src

> String to be encoded using Code128 (Set B) format.

Return Value

Code128 (Set B) format barcode string.

3.3.6   Code128C Function

Encodes a string using Code128 (Set C) format.

Public Function Code128C(ByVal Src As String) As String

Parameters

Src

> String to be encoded using Code128 (Set C) format.

Return Value

Code128 (Set C) format barcode string.

3.3.7   EAN13 Function

Encodes a string using EAN13 format.

Public Function EAN13(ByVal Src As String) As String

Parameters

Src

> String to be encoded using EAN13 format.

Return Value

EAN13 format barcode string.

3.3.8   EAN8 Function

Encodes a string using EAN8 format.

Public Function EAN8(ByVal Src As String) As String

Parameters

Src

    String to be encoded using EAN8 format.

Return Value

EAN8 format barcode string.

3.3.9 GS1_128 Function

Encodes a string using GS1 128 format.

Public Function GS1_128(ByVal Src As String) As String

Parameters

Src

    String to be encoded using GS1 128 format. For example, (01)12345678901234(3103)123456

Return Value

GS1 128 format barcode string.

3.3.10 JAN13 Function

Encodes a string using JAN13 format.

Public Function JAN13(ByVal Src As String) As String

Parameters

Src

    String to be encoded using JAN13 format.

Return Value

JAN13 format barcode string.

3.3.11 JAN8 Function

Encodes a string using JAN8 format.

Public Function JAN8(ByVal Src As String) As String

Parameters

Src

    String to be encoded using JAN8 format.

Return Value

JAN8 format barcode string.

3.3.12 UPCA Function

Encodes a string using UPC-A format.

Public Function UPCA(ByVal Src As String) As String

Parameters

Src

    String to be encoded using UPC-A format.

Return Value

UPC-A format barcode string.

3.3.13 UPCE Function

Encodes a string using UPC-E format.

Public Function UPCE(ByVal Src As String) As String

Parameters

Src

    String to be encoded using UPC-E format.

Return Value

UPC-E format barcode string.

3.3.14 IT25 Function

Encodes a string using Interleaved 2 of 5 format.

Public Function IT25(ByVal Src As String, ByVal CheckDigit As Boolean) As String

Parameters

Src

    String to be encoded using Interleaved 2 of 5 format.

CheckDigit

    Indicates whether a check digit character should be inserted into barcode string.

Return Value

Interleaved 2 of 5 format barcode string.

3.3.15 POSTNETPLANET Function

Encodes a string using Postnet / Planet format.

Public Function POSTNETPLANET(ByVal Src As String) As String

Parameters

Src

String to be encoded using Postnet / Planet format.

Return Value

Postnet / Planet format barcode string.

Endnotes 2... (after index)

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