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1 Introduction

MW6 Barcode DLL for SAP R/3 is compatible with SAPgui, SAPsprint and SAPlpd, it allows you to print over 100 different barcodes including Code 39, Code 128, GS1-128, EAN 13, EAN 8, UPC-A, UPC-E, Royal Mail 4 State, USPS OneCode, Deutsche Post Identcode, Deutsche Post Leitcode, Japan Postal Code, PDF417, Micro PDF417, DataMatrix, MaxiCode, Aztec, QRCode, Micro QRCode, CodaBlock-F, Code 16K and Code 49 virtually on any windows printer from SAP R/3 system, please check out this page for the complete list of featured barcodes.

Our Barcode DLL is a cost-effective way to provide the barcode solution for SAP R/3 system, no special hardware such as barcode font or barcode printer is required.

You can easily embed the print controls supported by our Barcode DLL in SAPscript, SmartForms and ABAP to print barcodes.

2 Installation and Setup

2.1 Install MW6 Barcode DLL for SAP R/3

You have to install our Barcode DLL on both server (SAPSprint folder) and client (SAPlpd folder) PCs if you have one of the following scenarios:

1. You want to print barcodes onto a LOCL printer with server printing SAPSprint.

2. You want to print barcodes onto a virtual PDF printer with server printing SAPSprint.

2.1.1 Demo Version

Follow the instructions listed below to install the demo version of MW6 Barcode DLL for SAP R/3:

1. Unzip MW6BarcodeDLL.ZIP

2. Run Setup.exe, depending on which file (SAPlpd.exe, SAPsprint.exe or SAPWin.dll) is involved in printing barcodes, choose the folder where that specific file is located as the installation destination folder (e.g. "C:\Program Files\SAP\FrontEnd\SAPgui\saplpd", "C:\Program Files\SAP\SAPSprint", "C:\Program Files\SAP\FrontEnd\SAPgui\"). 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.

2.1.2 Full Version

Follow the instructions listed below to install the full version of MW6 Barcode DLL for SAP R/3:

1. Uninstall the demo version software package if applicable.

2. Unzip full version software package .ZIP file.

3. Run Setup.exe, depending on which file (SAPlpd.exe, SAPsprint.exe or SAPWin.dll) is involved in printing barcodes, choose the folder where that specific file is located as the installation destination folder (e.g. "C:\Program Files\SAP\FrontEnd\SAPgui\saplpd", "C:\Program Files\SAP\SAPSprint",

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"C:\Program Files\SAP\FrontEnd\SAPgui\"). 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.

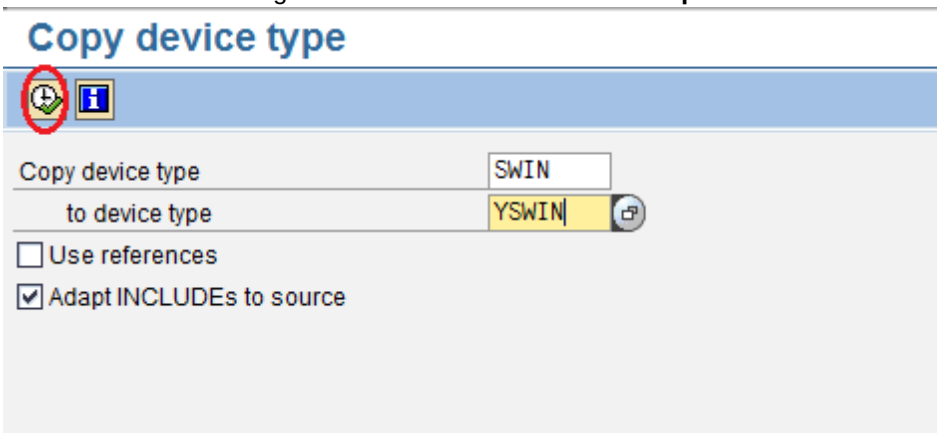
2.2 Create A New Device Type

In order to use windows printer to print barcodes from SAP R/3 system, a new device type same as "SWIN" (Rel.4.x/SAPlpd 4.09 + ONLY!) is needed, if you want to use SWINCF to print barcodes, please check out the SAP Note **1079665**.

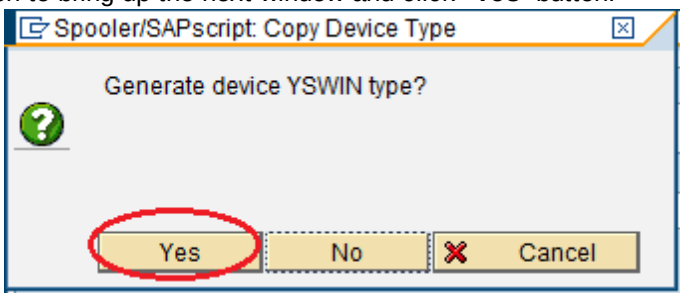
Follow the instructions listed below to create a new device type:

(1) Start transaction SPAD.

(2) Select "**Utilities**" > "**For device types**" > "**Copy device type**", then select the device type "SWIN (Rel.4.x/SAPlpd 4.09 + ONLY!)" or "SWIN (Windows printing via SAPlpd)" for "**Copy device type**", please don't choose "SAPWIN". Enter a name that begins with Y or Z. (e.g. YSWIN) for "**to device type**" and choose the default settings for "**User references**" and "**Adapt INCLUDEs to source**" fields.

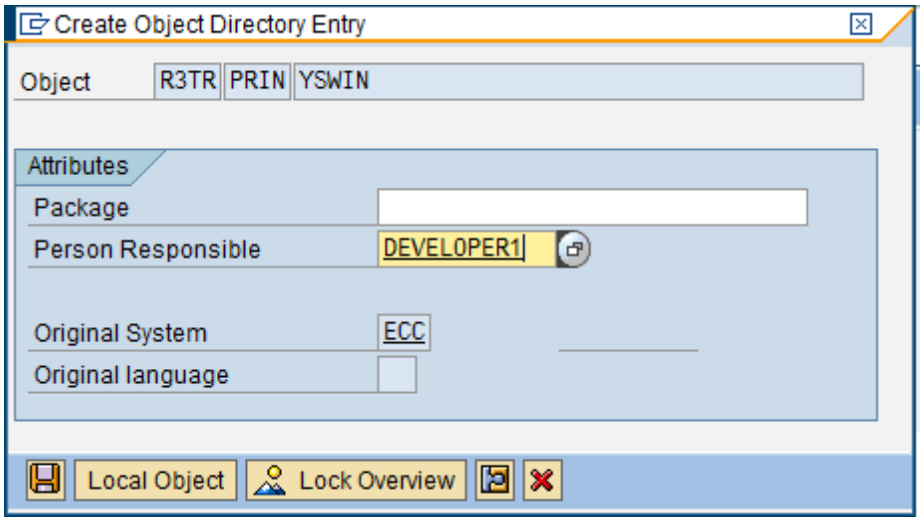


(3) Click "**Execute**" icon to bring up the next window and click "**Yes**" button.

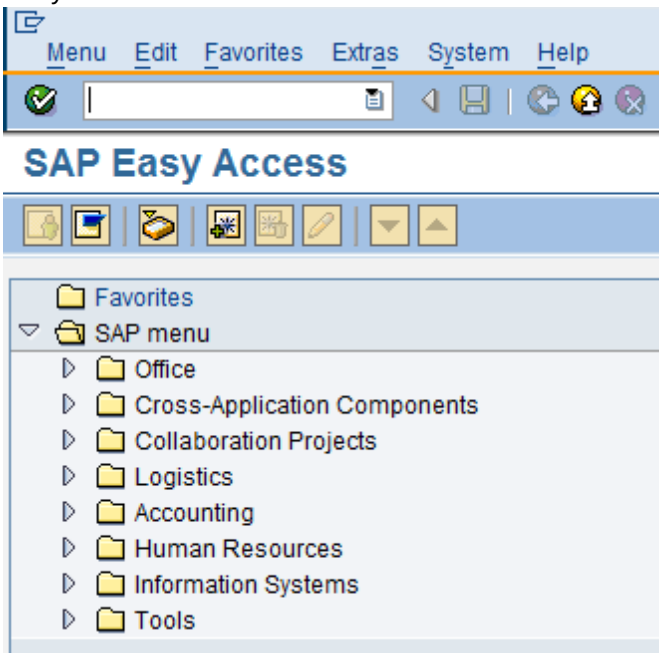


(4) If you want to create a local object, click "**Local Object**" button, otherwise you need to specify a package.

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(5) Hit  a few times until you can see the main menu window.



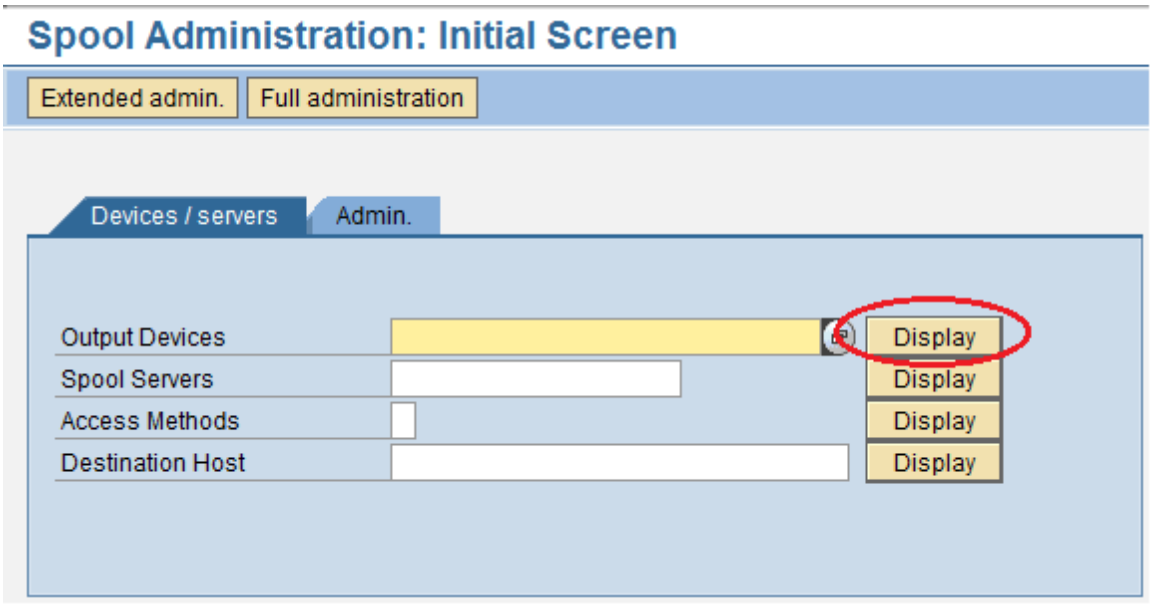
2.3 Create A New Output Device

Follow the instructions listed below to assign a printer to a new output device:

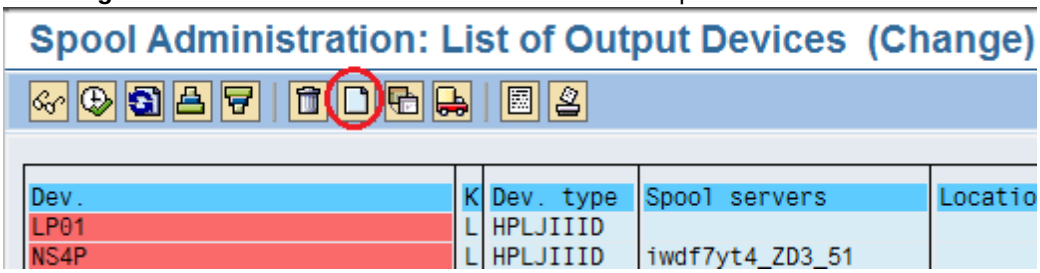
(1) Start transaction SPAD.

(2) Select "**Devices / servers**" tab > click "**Display**" button

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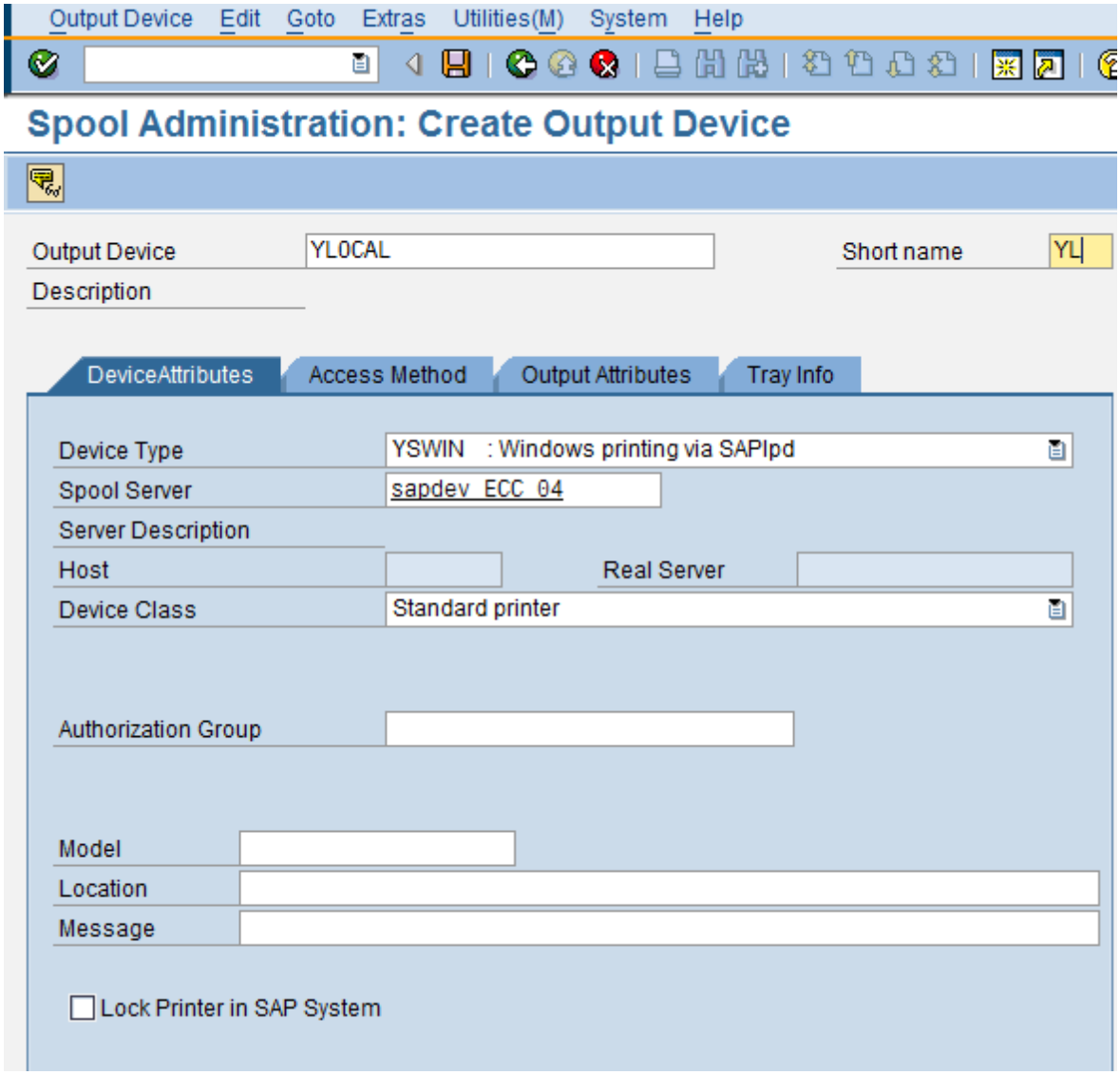


(3) Click "**Change**" icon > click "**Create**" icon to create a new output device



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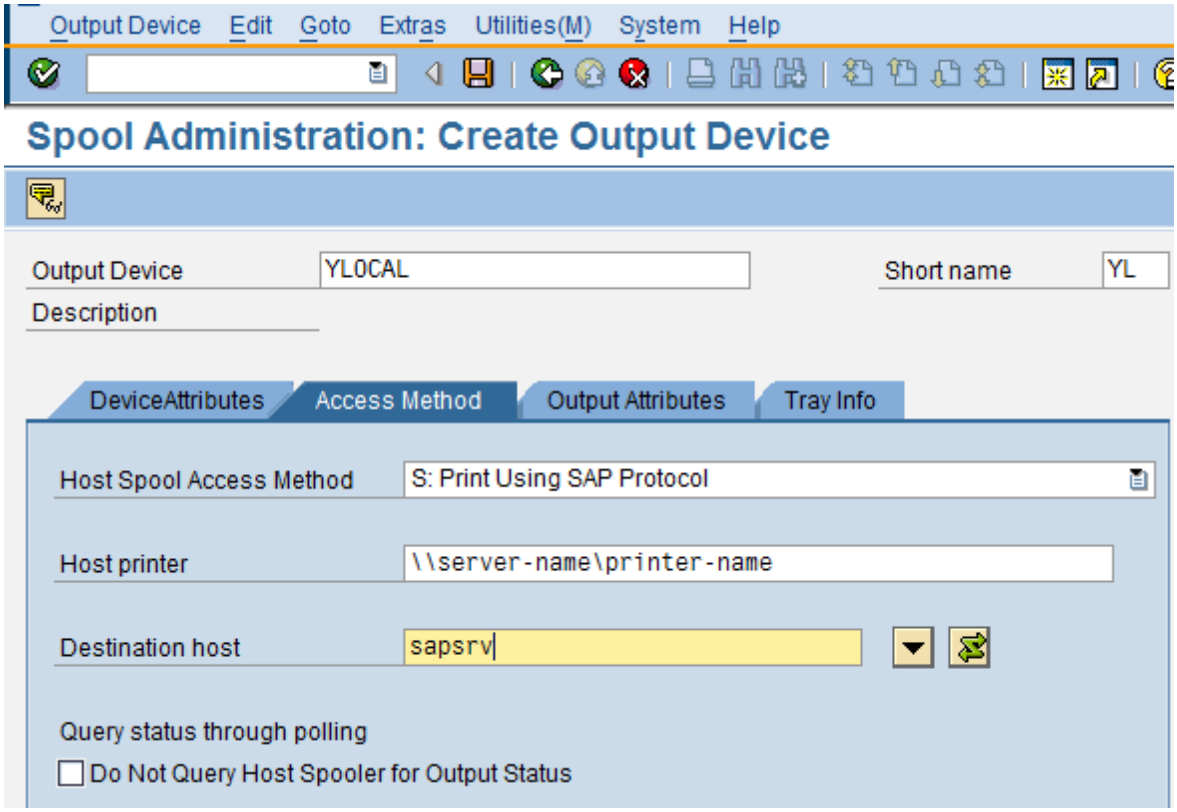
2.3.1 Device Attributes



Field Name	Description
Device Type	Choose a predefined device type (e.g. YSWIN)
Spool Server	Select a SAP spool server, which is only required when host spool access method "S" is chosen.
Device Class	Irrelevant field
Authorization Group	Irrelevant field
Model	Irrelevant field
Location	Irrelevant field
Message	Irrelevant field

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2.3.2 Host Spool Access Method



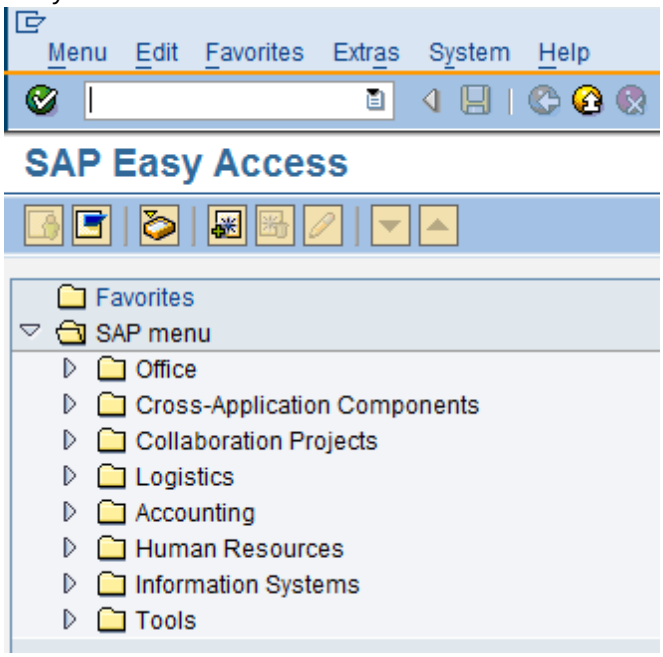
Field Name	Description
Host Spool Access Method	(1) Choose "**S: Print Using SAP Protocol**" if a print server with SAPlpd or SAPsprint is used to print barcodes. (2) Choose "**F: Printing on Frontend Computer**" if SAPlpd and SAP GUI are used together to print barcodes, SAP GUI sends print job to SAPlpd, SAPlpd is started automatically and forwards the print data stream to the Windows print manager. (3) Choose "**G: Frontend Printing with Control Tech**", only SAP GUI is involved in printing barcodes, SAPlpd is not used.
Host printer	Enter the name of a local printer or shared network printer to print barcodes, If you want to use the windows default printer, simply enter "__default". If you want to use a shared network printer, enter a name something like "\\server-name\printer-name"
Destination host	The name of host system where SAPlpd or SAPsprint is running to print barcodes, it is only required for host spool access method "S: Print using SAP protocol"

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2.3.3 Save Settings

(1) Save all settings by clicking  icon.

(2) Hit  a few times until you can see the main menu window.

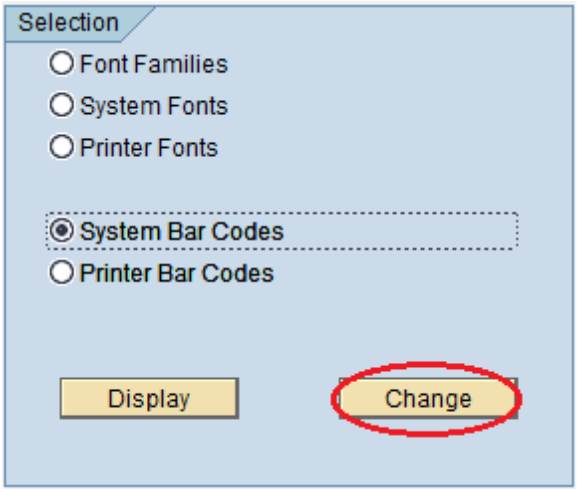


2.4 Create A New System Bar Code

Follow the instructions listed below to create a new system bar code:

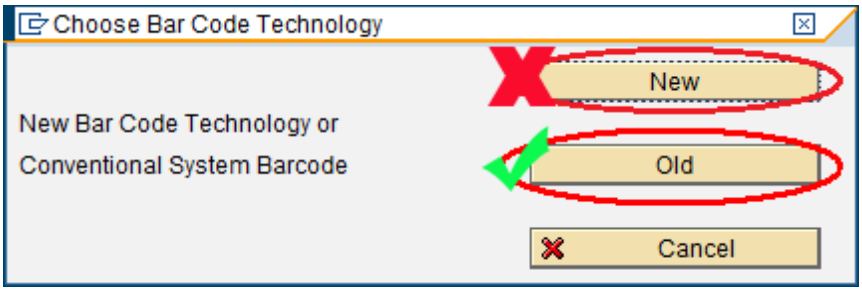
(1) Start transaction SE73.

(2) Select "**System Bar Codes**" > click "**Change**" button.

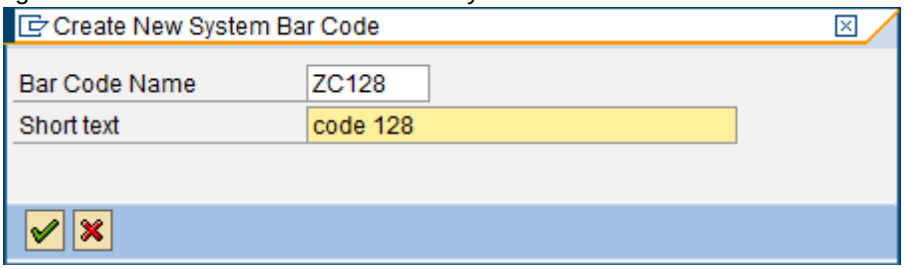


(3) If "**Choose Bar Code Technology**" window pops up, click "**Old**" button instead of "**New**" button. Otherwise ignore this step and go to the step 4.

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(4) Enter a name into "**Bar Code Name**" field and a brief description into "**Short text**" field, the bar code name must begin with **Z** to avoid the conflict between your bar codes and the SAP bar codes.



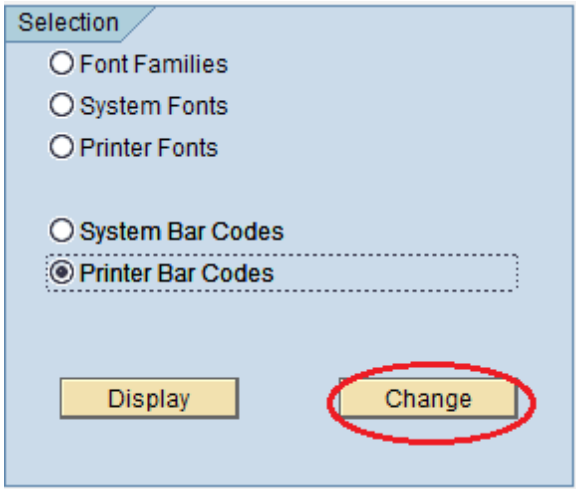
(5) Choose the default settings for the remaining dialogs.

2.5 Create A New Printer Bar Code

Follow the instructions listed below to create a new printer bar code:

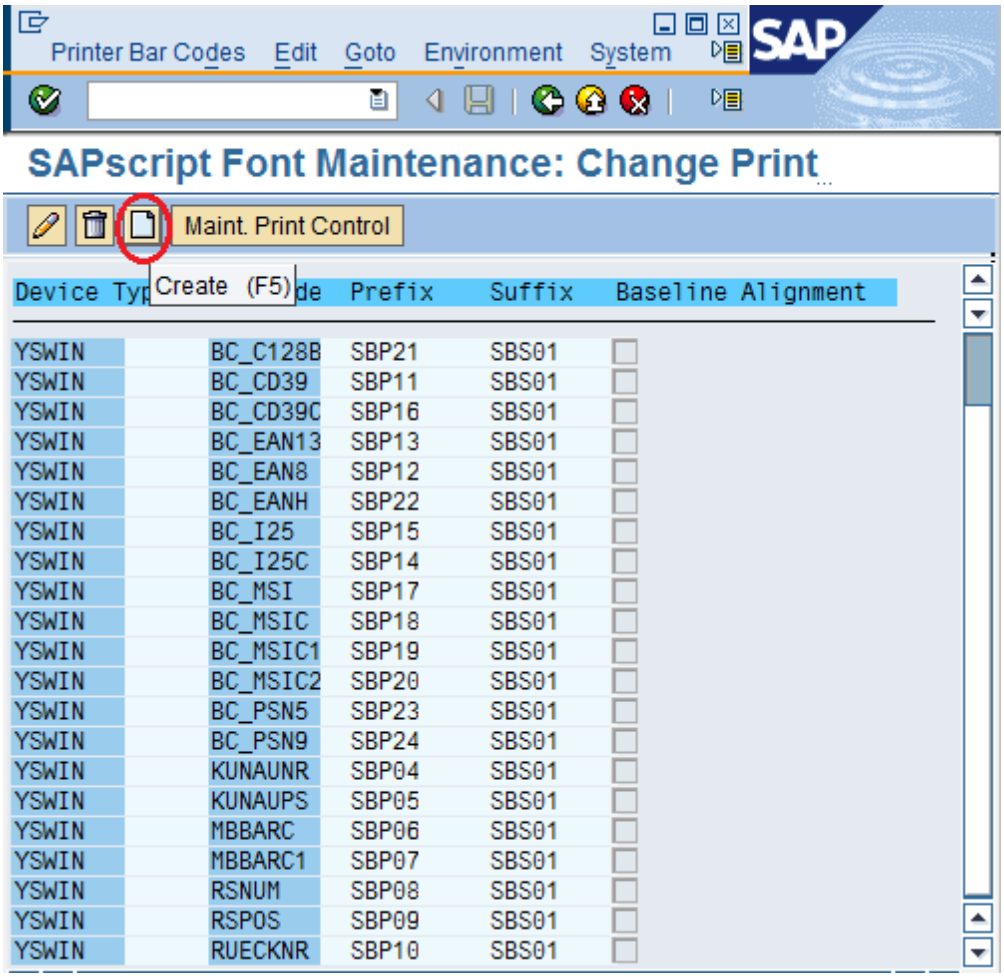
(1) Start transaction SE73.

(2) Select "**Printer Bar Codes**" > click "**Change**"

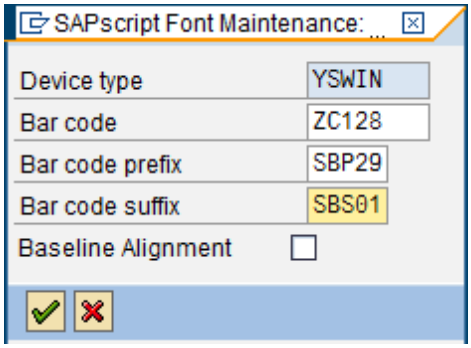


(3) In the next window, select the device type (e.g. YSWIN) which you previously defined, click "**Create**" icon to create a new printer barcode.

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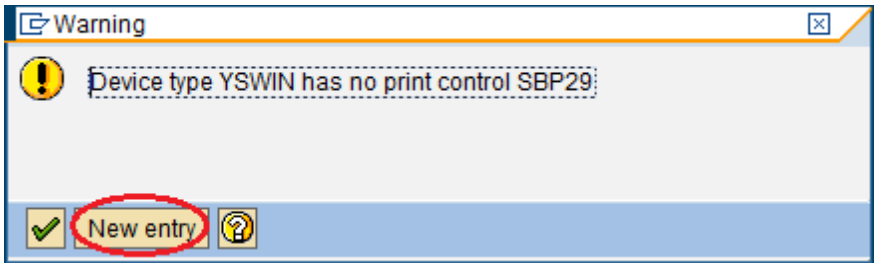


(4) Enter some appropriate data into "**Bar code**", "**Bar code prefix**" and "**Bar code suffix**" fields, "**Bar code**" field value could be a system bar code which you previously defined via "Create A System Bar Code"

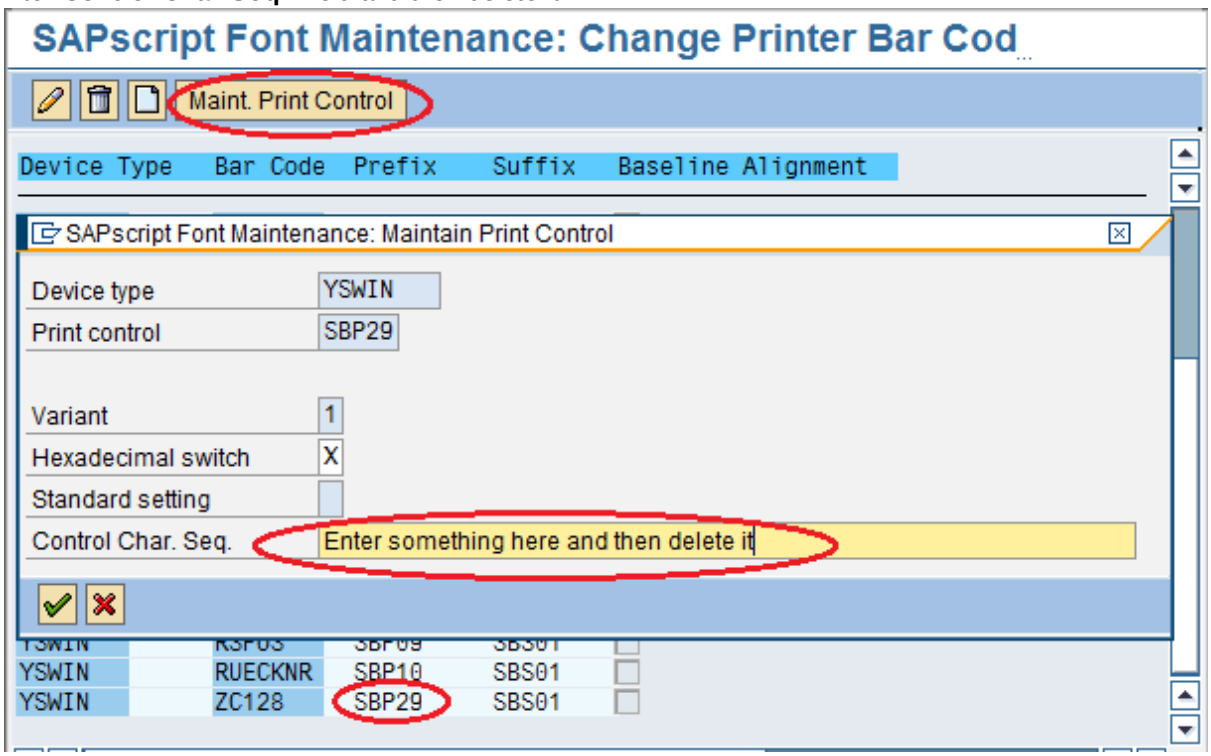


(5) Click "**New entry**" if the following dialog pops up, you need to edit "**Bar code prefix**" print control (e.g. SBP29) later by putting valid control character sequence there via "Edit A Print Control"

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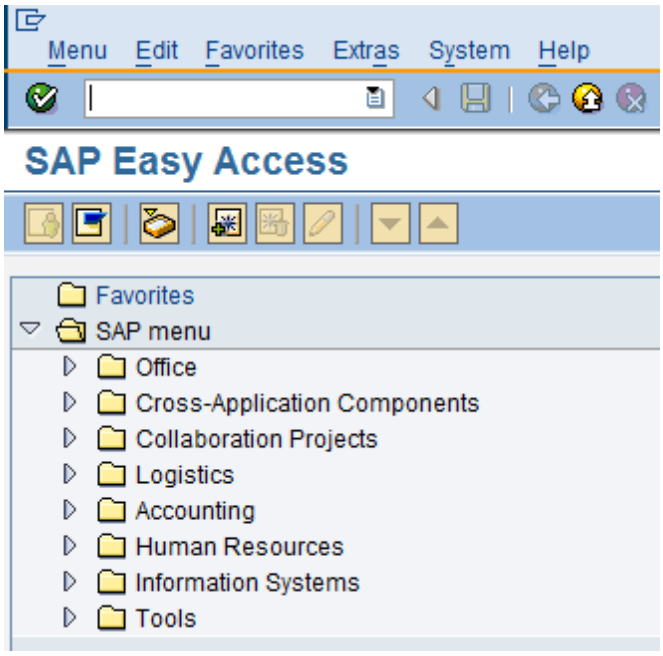
(6) In order to make new defined print control work properly, you must make it dirty by clicking it (e.g. SBP29) and clicking "**Maint. Print Control**" to bring up a new dialog where you could enter something into "**Control Char Seq.**" field and then delete it.



(7) Save all settings by clicking icon.

(8) Hit a few times until you can see the main menu window.

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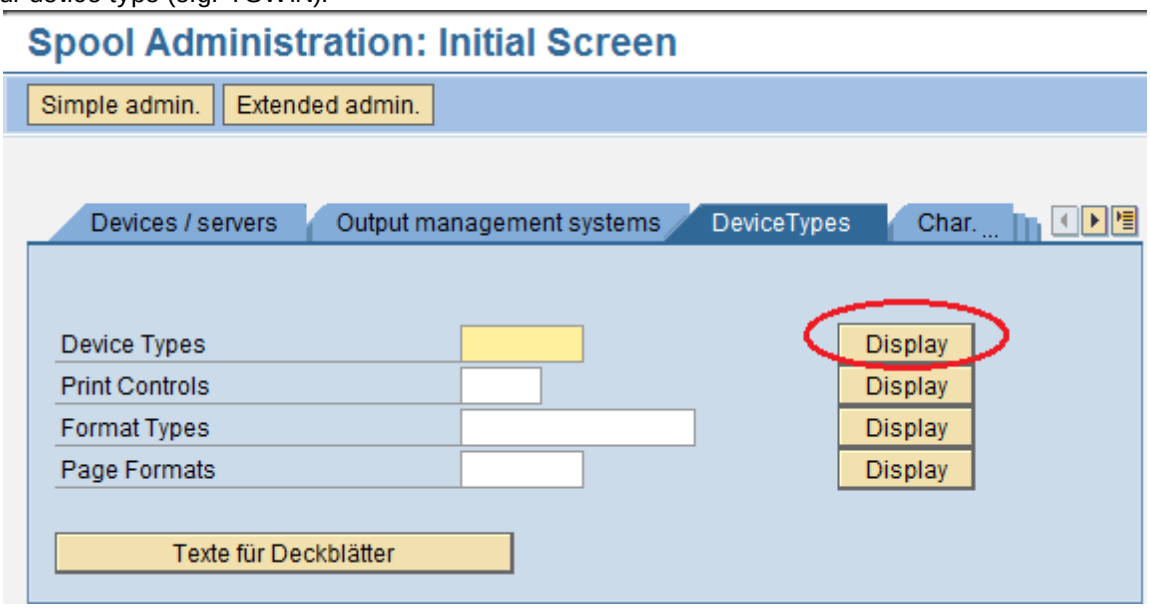


2.6 Edit A Print Control

Follow the instructions listed below to edit a print control

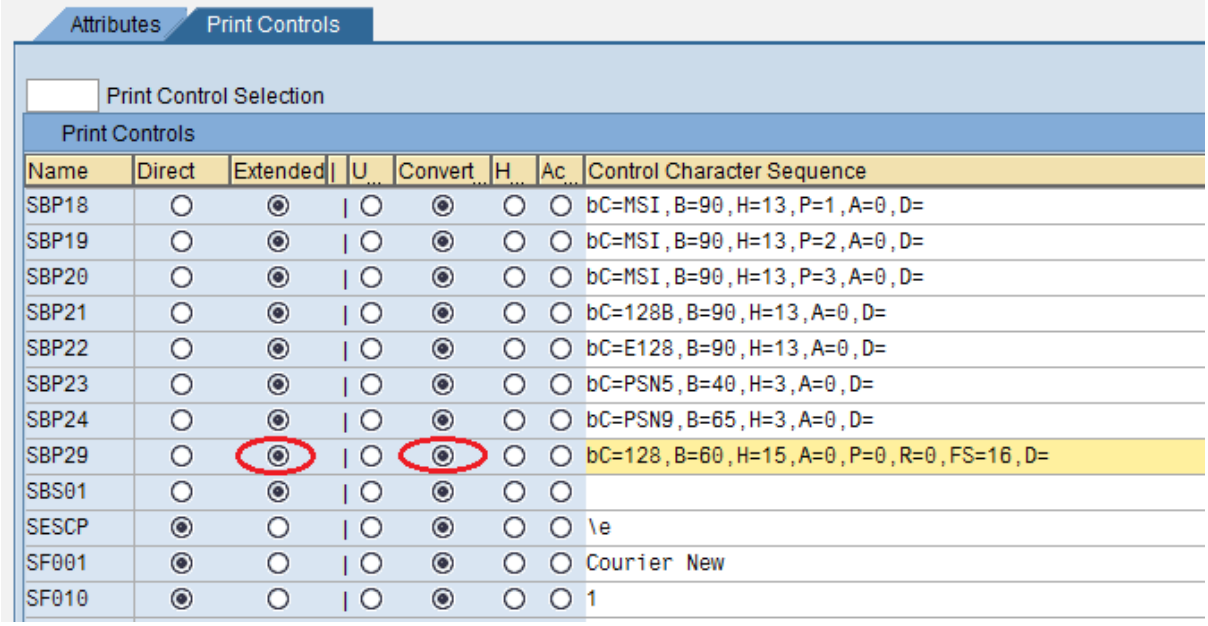
(1) Start transaction SPAD.

(2) Click "**Full administration**" button > click "**DeviceTypes**" tab, click "**Display**" button to choose your device type (e.g. YSWIN).



(3) Click "**Print controls**" tab > click "**Change**" icon, enter a control character sequence (e.g. bC=128,B=60,H=15,A=0,P=0,R=0,FS=16,D=) to define a print control, in this case, it is SBP29.

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Attributes | Print Controls

Print Control Selection

Print Controls

Name	Direct	Extended	|	U...	Convert...	H...	Ac...	Control Character Sequence
SBP18	○	◉	|	○	◉	○	○	bC=MSI,B=90,H=13,P=1,A=0,D=
SBP19	○	◉	|	○	◉	○	○	bC=MSI,B=90,H=13,P=2,A=0,D=
SBP20	○	◉	|	○	◉	○	○	bC=MSI,B=90,H=13,P=3,A=0,D=
SBP21	○	◉	|	○	◉	○	○	bC=128B,B=90,H=13,A=0,D=
SBP22	○	◉	|	○	◉	○	○	bC=E128,B=90,H=13,A=0,D=
SBP23	○	◉	|	○	◉	○	○	bC=PSN5,B=40,H=3,A=0,D=
SBP24	○	◉	|	○	◉	○	○	bC=PSN9,B=65,H=3,A=0,D=
SBP29	○	◉	|	○	◉	○	○	bC=128,B=60,H=15,A=0,P=0,R=0,FS=16,D=
SBS01	○	◉	|	○	◉	○	○	
SESCP	◉	○	|	○	◉	○	○	\e
SF001	◉	○	|	○	◉	○	○	Courier New
SF010	◉	○	|	○	◉	○	○	1

- For print-control prefix (e.g. SBP29), ensure that "**Extended**" and "**Converted**" radio buttons are clicked, if "**Direct**" radio button is clicked instead, SAP R/3 will not be able to print barcodes.

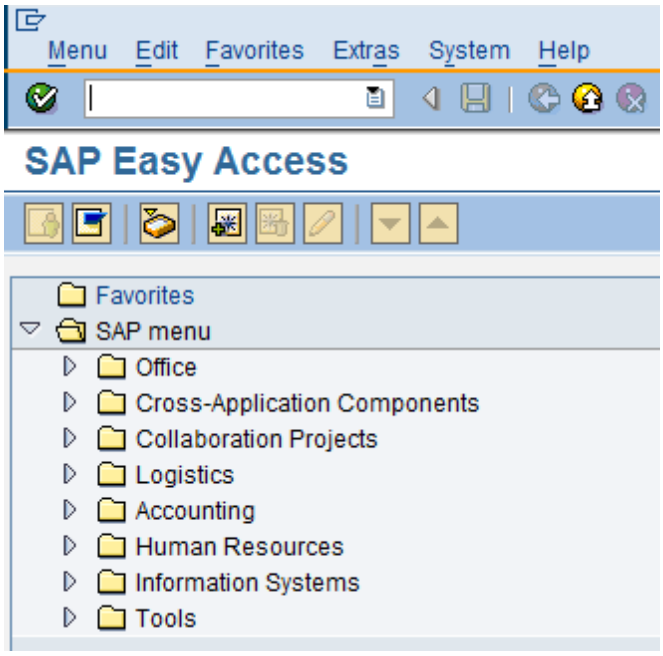
- For print-control suffix SBS01:
  - ✓ For SAP 4.6, ECC 5.0 or ECC 6.0, ensure that "**Extended**" and "**Converted**" radio buttons are clicked and "**Control Character Sequence**" field is empty.

  - ✓ For SAP 4.7, ensure that "**Direct**" and "**Hex**" radio buttons are clicked and 1B is entered in the "**Control Character Sequence**" field.

(4) Save all settings by clicking icon.

(5) Hit a few times until you can see the main menu window.

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2.7 Test Printing Barcodes

Follow the instructions listed below to test printing barcodes after the previous steps are finished:

(1) Start transaction SPAD.

(2) Select "**Utilities**" > "**For device types**" > "**Test data (SAPscript)**"

(3) Print the predefined document **SAPSCRIPT-BARCODETEST**, specify **ST** as the document ID and **EN** or **DE** as the language.

(4) If you want to test printing rotated barcodes, choose **SAPSCRIPT-BARCODETEST2**.

The test document is usually available only in client 000.

3 How to Print Barcodes in SAP R/3

3.1 Print Barcodes in SAPScript

3.1.1 Use Print Control

Here's a handy SAPScript code snippet to print barcodes using a print control.

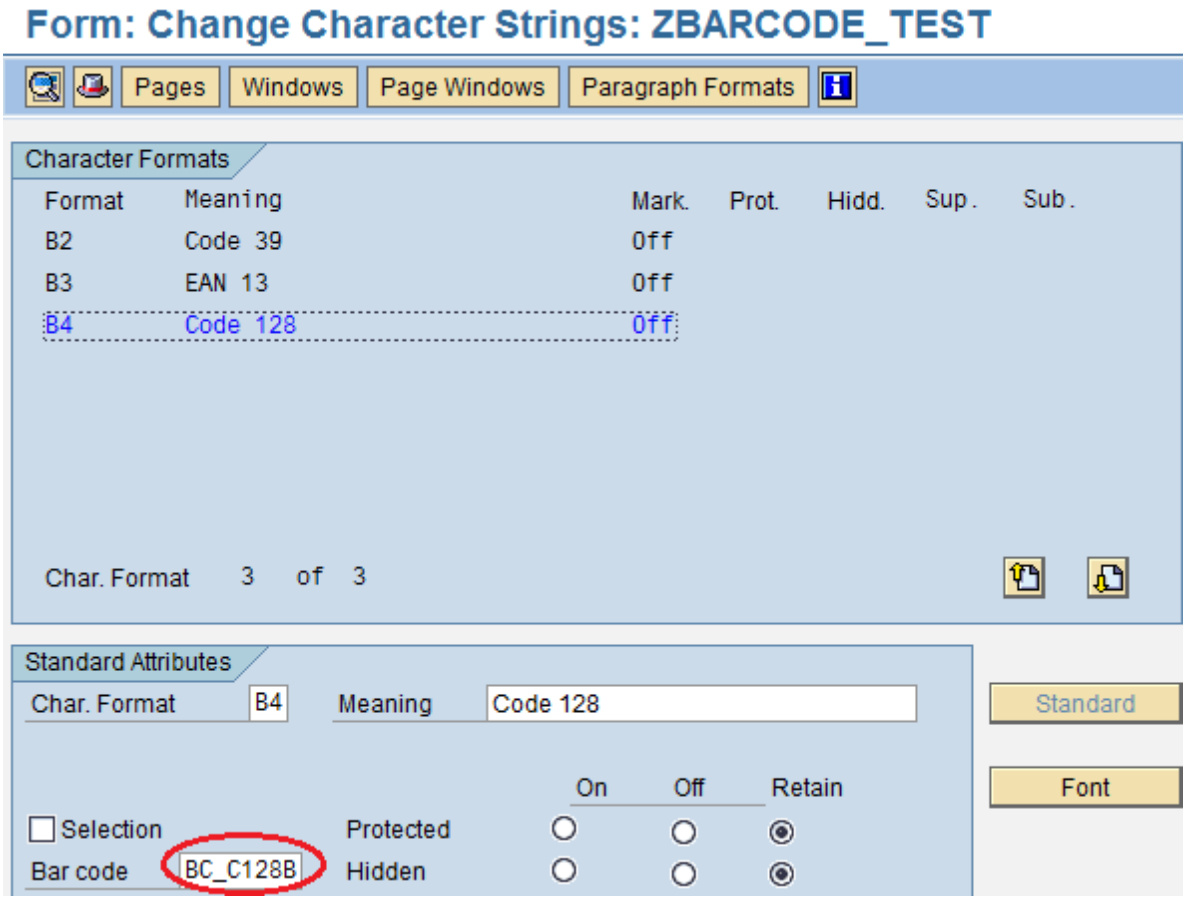
```
/
/ : PROTECT
/   Print Barcodes Here (This text line is needed before the barcode print-control prefix)
/ : PRINT-CONTROL SBP29
```

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```
=  1234ABCDEF
/: PRINT-CONTROL SBS01
/: ENDPROTECT
/
```

3.1.2 Use Character Format

1. Create a new character format.



2. In your SAPScript code, assign a new created character format to a barcode string:

```
/
/: PROTECT
/   Code 128
/  <B4>12345678</>
/: ENDPROTECT
/
```

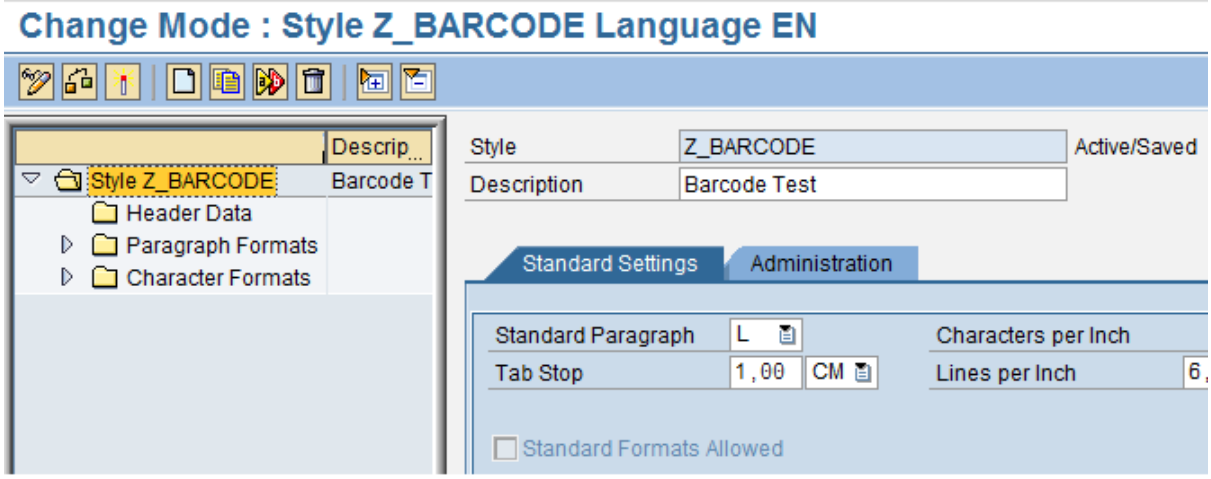
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3.2 Print Barcodes in Smart Form

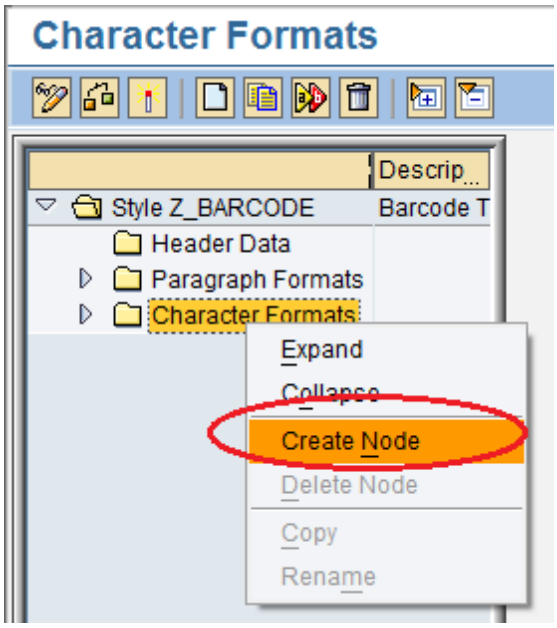
Follow the instructions listed below to print barcodes in a Smart Form:

(1) Start transaction SMARTFORMS.

(2) Copy the style "SYSTEM" to a local one "Z_BARCODE", save and then activate it.

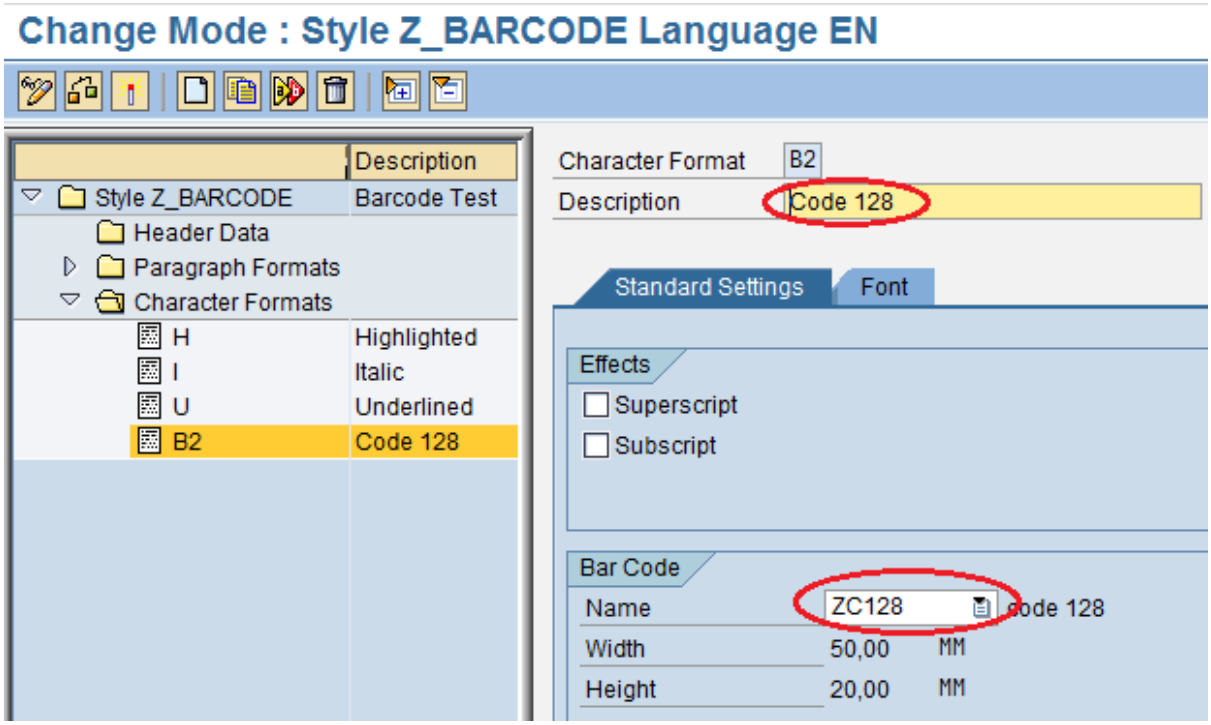


(3) Right click "**Character Formats**" and choose "**Create Node**".

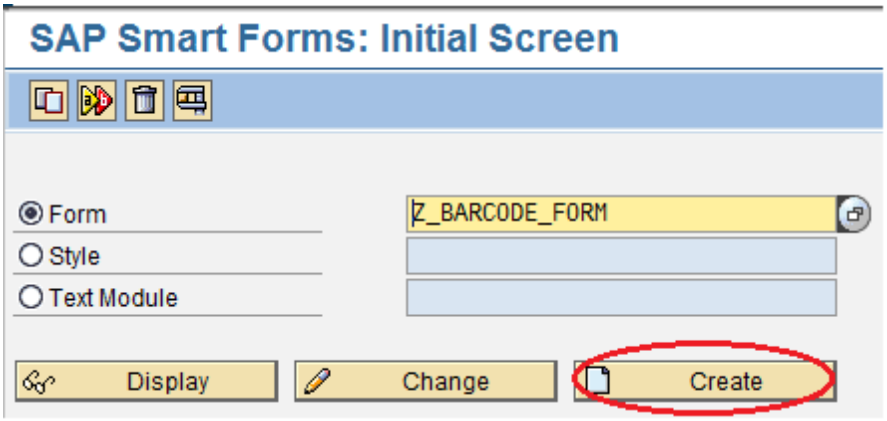


(4) Enter a name and a brief description into "**Character Format**" and "**Description"** fields respectively, choose a system barcode (e.g. ZC128) from the list, save and then activate it.

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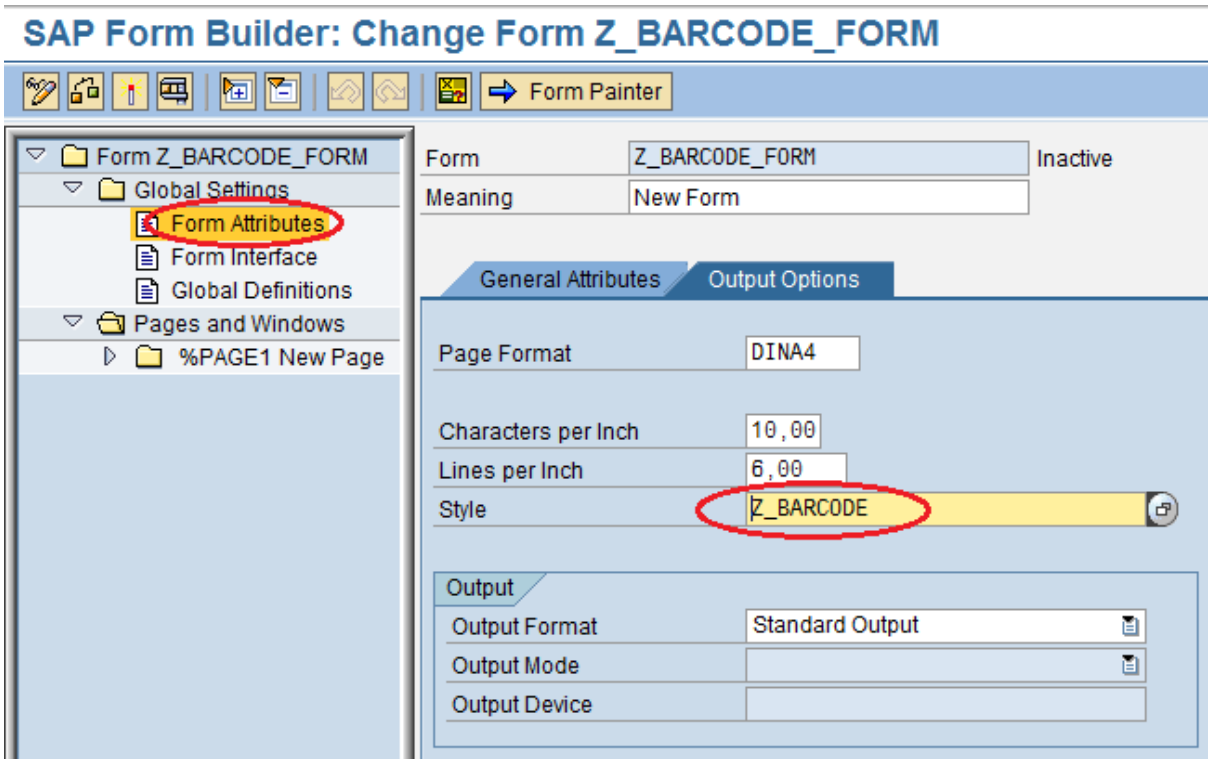


(5) Create a new form.

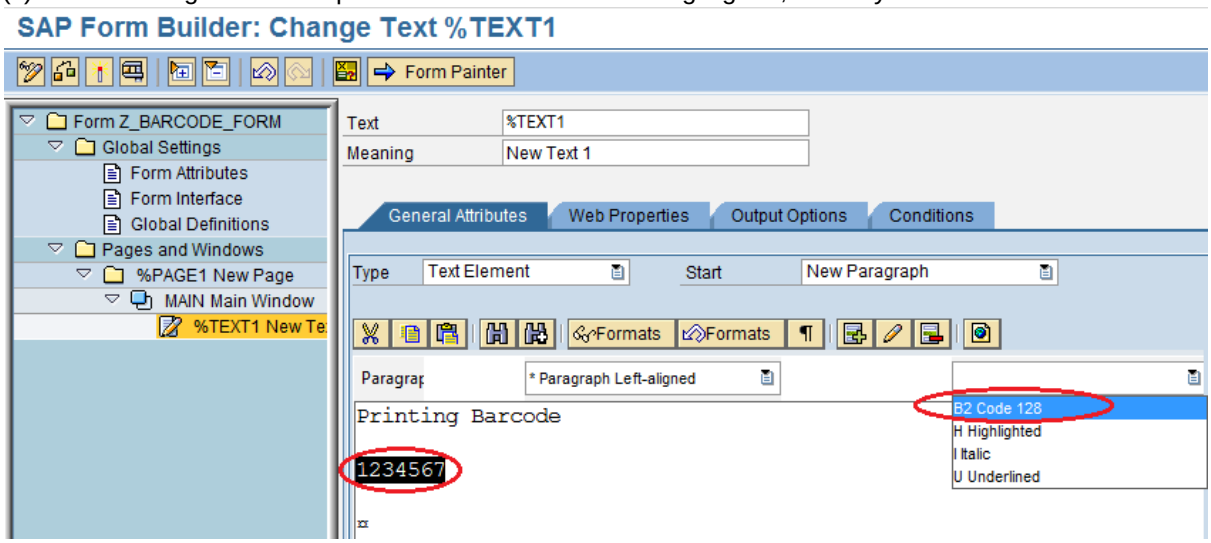


(6) Click "**Form Attributes**" and select "**Output Options**", choose Z_BARCODE as style.

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(7) Insert a string or SAPScript variable into the form and highlight it, select your character format.



(8) Save and then activate it.

3.3 Print Barcodes in ABAP

Here's a handy ABAP code snippet to print barcodes in SAP R/3.

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```
REPORT  Z_BARCODE_ABAP.

NEW-PAGE NO-HEADING PRINT ON LINE-SIZE 80.

WRITE: /'Test printing a barcode'.

FORMAT COLOR OFF INTENSIFIED OFF.

WRITE: /.

* Start printing a barcode
* Use a print-control prefix
PRINT-CONTROL FUNCTION 'SBP29'.

* Insert a barcode string
* Use NO-GAP to remove trailing blanks
WRITE: '12345678' NO-GAP.

* Stop printing a barcode
* Use a print-control suffix
PRINT-CONTROL FUNCTION 'SBS01'.

WRITE: /.
```

4 Print Control Parameters

4.1 Common Commands

4.1.1 B Command

This command is used to specify the barcode width in millimeters (MMs).

For example, if the barcode width is 65 MMs, the **B command** is B=65.

Remarks:
An example of control character sequence:
bC=128, R=0, B=65, H=20, X=0, P=0, BT=0, A=0, FS=15, D=

See Also:
Edit A Print Control

4.1.2 C Command

This command is used to specify the barcode type.

Command	Barcode Description	Allow Bearer Bars?	Allow Supplement 2 or 5?	Sample Barcode String
C=11	Code 11			
C=128	Code 128			1234ABCD+/
C=128A	Code 128 (Set A)			
C=128B	Code 128 (Set B)			
C=128C	Code 128 (Set C)			

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C=25DL	Data Logic 2/5	Yes		
C=25I	Interleaved 2 of 5 Barcode	Yes		
C=25IATA	IATA 2 of 5 Barcode	Yes		
C=25IND	Industrial 2 of 5 Barcode	Yes		
C=25M	Matrix 2 of 5 Barcode	Yes		
C=39	Code 39			1234ABCD
C=39E	Code 39 Extended			
C=93	Code 93			
C=APR	Australia Postal Routing			
C=APRD	Australia Postal Redirection			
C=APRP	Australia Postal Reply Paid			
C=APSC	Australia Postal Standard Customer			
C=AZ	Aztec			
C=C16K	Code 16K			
C=C32	Code 32 or Italian Pharmacode			
C=C49	Code 49			
C=CBF	Codablock-F			
C=CC	Channel Code			
C=CDB14	GS1 Composite Databar-14			1234567890123+2D Data
C=CDB14L	GS1 Composite Databar Limited			
C=CDB14S	GS1 Composite Databar Stacked			
C=CDB14SO	GS1 Composite DataBar Stacked Omnidirectional			
C=CDBE	GS1 Composite DataBar Expanded			(01)12345678901234+2D Data
C=CDBES	GS1 Composite DataBar Expanded Stacked			
C=CODA	Codabar			
C=CONE	Code One			
C=CP	China Postal Code			
C=DAFT	USPS DAFT Code			DAFTTFAD
C=DAPC	Danish Postal Code			CC12345678
C=DB14	GS1 Databar-14			1234567890123
C=DB14L	GS1 Databar Limited			
C=DB14S	GS1 Databar Stacked			
C=DB14SO	GS1 DataBar Stacked Omnidirectional			
C=DB14T	GS1 Databar Truncated			
C=DBE	GS1 DataBar Expanded			(01)12345678901234
C=DBES	GS1 DataBar Expanded Stacked			
C=DM	DataMatrix			
C=DPIDEN	Deutsche Post Identcode			12345678901
C=DPLEIT	Deutsche Post Leitcode			1234567890123
C=E128	UCC/EAN128 (GS1-128)			(21)95FNC1(11)090101
C=E13	EAN 13		Yes	123456789012+12
C=E8	EAN 8		Yes	1234567+12345
C=E8V	EAN Velocity		Yes	
C=FIM	USPS Facing Identification Mark			A

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C=FLATT	Flattermarken			
C=FP39	France Postal Code 39			RA12345678
C=H128	HIBC Code 128 for LIC or PAS			+H123ABC01234567890D
C=H39	HIBC Code 39 for LIC or PAS			+/EAH783B
C=HCBF	HIBC CodaBlock-F for LIC or PAS			+/EAH783/Z34H159$
C=HDM	HIBC DataMatrix for LIC or PAS			
C=HMPDF	HIBC Micro PDF417 for LIC or PAS			
C=HPDF	HIBC PDF417 for LIC or PAS			
C=HQR	HIBC QRCode for LIC or PAS			
C=IP25	Italy Postal Code 2/5			
C=IP39	Italy Postal Code 39			
C=ISBN	ISBN or International Standard Book Number		Yes	3161484100
C=ISMN	ISMN or International Standard Music Number		Yes	M-2306-7118-7
C=ISSN	ISSN or International Standard Serial Number		Yes	0264-3596
C=ITF14	ITF-14 or UPC Shipping Container Symbol	Yes		1234567890123
C=J13	JAN 13		Yes	
C=J8	JAN 8		Yes	
C=JP	Japan Postal Code			1234567AZ
C=KIX	Netherlands Postal Code (KIX)			A12345678
C=KP	Korean Postal Code			123456
C=LOG	Logmars			
C=MC	MaxiCode			
C=MPDF	Micro PDF417			
C=MQR	Micro QRCode			
C=MSI	MSI/Plessey			
C=NNB	Numly Number or ESN			1234567890123456789
C=OPC	Optical Product Code		Yes	123456789
C=PDF	PDF417			
C=PHOT	Pharmacode One-Track			
C=PHTT	Pharmacode Two-Track			
C=PLT	USPS PLANET			
C=POT	USPS POSTNET			
C=PZN	Pharma-Zentral-Nummer			123456
C=QR	QRCode			
C=RM4S	Royal Mail 4 State			
C=SC14	SCC-14 or Shipping Container Code			
C=SC18	SSCC-18 or UPC-128 Shipping Container Code			
C=SPC	Singapore Postal Code			
C=SWPC	Swiss Parcel Post Barcode			
C=TELE	Telepen Alpha			
C=TELEN	Telepen Numeric			
C=UKP	UK Plessey			

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C=UPCA	UPC-A		Yes	1234567890
C=UPCE	UPC-E		Yes	1234567
C=USPSH	USPS Horizontal Bars			
C=USPSOC	USPS OneCode or USPS Intelligent Mail			12345678901234567890+50309
C=USPSS	USPS Sack Label			50309123
C=USPST	USPS Tray Label			5030912345
C=VBOL	VICS BOL or VICS Bill of Lading			
C=VSCAC	VICS SCAC PRO			

See Also:
Edit A Print Control

4.1.3 H Command

This command is used to specify the barcode height in millimeters (MMs).

For example, if the barcode height is 20 MMs, the **H command** is H=20.

Remarks:
An example of control character sequence:
bC=128, R=0, B=65, H=20, X=0, P=0, BT=0, A=0, FS=15, D=

See Also:
Edit A Print Control

4.1.4 R Command

This command is used to specify the barcode rotation option.

Command	Description
R=0	0 degree rotation
R=90	90 degrees rotation
R=180	180 degrees rotation
R=270	270 degrees rotation

Remarks:
An example of control character sequence:
bC=128, R=0, B=65, H=20, X=0, P=0, BT=0, A=0, FS=15, D=

See Also:
Edit A Print Control

4.1.5 X Command

This command is used to indicate whether the character hex representation is enabled or not, if enabled, a sub-string with the leading characters "0x" followed by 2 hexadecimal digits will be converted to a single corresponding character.

Command	Description
X=0	No conversion

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X=1	Conversion is enabled

For example, if "X=1" is invoked, the string "12345**0x0A**67890" will be converted to the string "12345" plus Chr(10) plus "67890", the string "0x300x78" will be converted to the string "0x".

Remarks:
You can use this command to allow the barcode to encode the non-printable characters (e.g. line feed and carriage return).

An example of control character sequence:
bC=128, R=0, B=65, H=20, X=0, P=0, BT=0, A=0, FS=15, D=

See Also:
Edit A Print Control

4.2 1D & Postal Code Barcodes

4.2.1 A Command

This command is used to indicate whether the human readable text should be printed out or not.

Command	Description
A=0	No human readable text
A=1	Print the human readable text

Remarks:
An example of control character sequence:
bC=128, R=0, B=65, H=20, X=0, P=0, BT=0, A=0, FS=15, D=

See Also:
Edit A Print Control

4.2.2 BT Command

This command is used to specify the bearer bar type of barcode.

Command	Description
BT=0	No bearer bar
BT=1	Horizontal bearer bars only
BT=2	A bearer bar box around the barcode

Remarks:
An example of control character sequence:
bC=128, R=0, B=65, H=20, X=0, P=0, BT=0, A=0, FS=15, D=

See Also:
Edit A Print Control | BarCode.conf

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4.2.3 FS Command

This command is used to specify the font size of the human readable text.

For example, if the font size is 14, the **FS command** is FS=14.

Remarks:
An example of control character sequence:
bC=128, R=0, B=65, H=20, X=0, P=0, BT=0, A=0, FS=15, D=

See Also:
Edit A Print Control | BarCode.conf

4.2.4 P Command

This command is used to indicate whether the check digit should be added to a barcode or not.

Command	Description
P=0	No check digit
P=1	Add check digit to a barcode

Remarks:
An example of control character sequence:
bC=128, R=0, B=65, H=20, X=0, P=0, BT=0, A=0, FS=15, D=

See Also:
Edit A Print Control

4.3 2D Barcodes

4.3.1 Aztec

4.3.1.1 AZFM Command

This command is used to specify the preferred format for Aztec barcode.

Command	Description
AZFM=0	Auto format
AZFM=1	15 X 15 compact format
AZFM=2	19 X 19
AZFM=3	19 X 19 compact format
AZFM=4	23 X 23
AZFM=5	23 X 23 compact format
AZFM=6	27 X 27
AZFM=7	27 X 27 compact format
AZFM=8	31 X 31
AZFM=9	37 X 37
AZFM=10	41 X 41
AZFM=11	45 X 45
AZFM=12	49 X 49
AZFM=13	53 X 53
AZFM=14	57 X 57
AZFM=15	61 X 61
AZFM=16	67 X 67

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AZFM=17	71 X 71
AZFM=18	75 X 75
AZFM=19	79 X 79
AZFM=20	83 X 83
AZFM=21	87 X 87
AZFM=22	91 X 91
AZFM=23	95 X 95
AZFM=24	101 X 101
AZFM=25	105 X 105
AZFM=26	109 X 109
AZFM=27	113 X 113
AZFM=28	117 X 117
AZFM=29	121 X 121
AZFM=30	125 X 125
AZFM=31	131 X 131
AZFM=32	135 X 135
AZFM=33	139 X 139
AZFM=34	143 X 143
AZFM=35	147 X 147
AZFM=36	151 X 151

Remarks:

An example of control character sequence to print Aztec barcodes:

bC=AZ, B=60, H=60, R=0, AZFM=0, AZHT=0, D=

See Also:

Edit A Print Control

4.3.1.2 AZHT Command

This command is used to indicate whether or not to process the tilde character ("~") for Aztec barcode.

Command	Description
AZHT=0	Don't process the tilde character
AZHT=1	Process the tilde character

If "AZHT=1" is invoked, non-printable characters can be encoded with Aztec barcode 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).

Remarks:

An example of control character sequence to print Aztec barcodes:

bC=AZ, B=60, H=60, R=0, AZFM=0, AZHT=0, D=

See Also:

Edit A Print Control

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4.3.2 Code One

4.3.2.1 COVR Command

This command is used to specify the version for Code One barcode.

Command	Version	Size
COVR=1	A	16 X 18
COVR=2	B	22 X 22
COVR=3	C	28 X 32
COVR=4	D	40 X 42
COVR=5	E	52 X 54
COVR=6	F	70 X 76
COVR=7	G	104 X 98
COVR=8	H	148 X 134
COVR=9	S	8 X varied width
COVR=10	T	16 X varied width

Remarks:

An example of control character sequence to print Code One barcodes:

bC=CONE, B=50, H=50, R=0, COVR=3, D=

4.3.3 DataMatrix

4.3.3.1 DMFM Command

This command is used to specify the preferred format for DataMatrix barcode.

Command	Description
DMFM=0	Auto format
DMFM=1	10 X 10 format
DMFM=2	12 X 12 format
DMFM=3	14 X 14 format
DMFM=4	16 X 16 format
DMFM=5	18 X 18 format
DMFM=6	20 X 20 format
DMFM=7	22 X 22 format
DMFM=8	24 X 24 format
DMFM=9	26 X 26 format
DMFM=10	32 X 32 format
DMFM=11	36 X 36 format
DMFM=12	40 X 40 format
DMFM=13	44 X 44 format
DMFM=14	48 X 48 format
DMFM=15	52 X 52 format
DMFM=16	64 X 64 format
DMFM=17	72 X 72 format
DMFM=18	80 X 80 format
DMFM=19	88 X 88 format
DMFM=20	96 X 96 format
DMFM=21	104 X1 04 format
DMFM=22	120 X 120 format
DMFM=23	132 X 132 format
DMFM=24	144 X 144 format

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DMFM=25	8 X 18 format
DMFM=26	8 X 32 format
DMFM=27	12 X 26 format
DMFM=28	12 X 36 format
DMFM=29	16 X 36 format
DMFM=30	16 X 48 format

Remarks:
An example of control character sequence to print DataMatrix barcodes:
bC=DM, B=50, H=50, R=0, DMFM=4, DMHT=1, DMMD=0, D=

See Also:
Edit A Print Control

4.3.3.2 DMHT Command

This command is used to indicate whether or not to process the tilde character for DataMatrix barcode.

Command	Description
DMHT=0	Don't process the tilde character
DMHT=1	Process the tilde character

If "DMHT=1" is invoked, non-printable characters can be encoded with DataMatrix barcode 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).

"~1" is used to indicate FNC1. For example, "**~1**0107612345678900**~1**17100503" can be used to generate GS1 DataMatrix "(01)0107612345678900(17)100503", and "**~1**10AC34563G3" can be used to generate GS1 DataMatrix "(10)AC34563G3".

"~5" is used to indicate Macro 5. For example, "**~5**ABCDEF**0x1D**123456" can be used to generate DataMatrix "[)>[RS]05[GS]ABCDEF[GS]123456[RS][EOT]".

"~6" is used to indicate Macro 6. For example, "**~6**ABCDEF**0x1D**123456" can be used to generate DataMatrix "[)>[RS]06[GS]ABCDEF[GS]123456[RS][EOT]".

[RS] is the record separator with ASCII value 30, which can be represented with 0x1E in Barcode DLL with "X=1" command.

[GS] is the group separator with ASCII value 29, which can be represented with 0x1D in Barcode DLL with "X=1" command.

[EOT] is the end of transmission with ASCII value 4, which can be represented with 0x04 in Barcode DLL with "X=1" command.

Remarks:
An example of control character sequence to print DataMatrix barcodes:
bC=DM, X=1, B=50, H=50, R=0, DMFM=4, DMHT=1, DMMD=0, D=

See Also:

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4.3.3.3 DMMD Command

This command is used to specify the encoding mode for DataMatrix barcode.

Command	Description
DMMD=0	ASCII mode for mainly encoding ASCII characters (0-127)
DMMD=1	C40 mode for mainly encoding numeric and upper case characters
DMMD=2	Text mode for mainly encoding numeric and lower case characters
DMMD=3	Base256 mode for mainly encoding bytes of data

Remarks:
An example of control character sequence to print DataMatrix barcodes:
bC=DM, B=50, H=50, R=0, DMFM=4, DMHT=1, DMMD=0, D=

See Also:
Edit A Print Control

4.3.4 MaxiCode

4.3.4.1 MCMD Command

This command is used to specify the mode for MaxiCode barcode.

Command	Description
MCMD=2	Mode 2
MCMD=3	Mode 3
MCMD=4	Mode 4
MCMD=5	Mode 5

Remarks:
An example of control character sequence to print MaxiCode barcodes:
bC=MC, R=0, MCMD=3, MCHT=0, D=

If the barcode string is properly formatted and begins with the 7 characters "[)><RS>01<GS>", the values of zip code, country code and service class can be embedded in that string.

For example, let's pass the following string to the Barcode DLL for SAP R/3:

[)><RS>01<GS>9615238<GS>840<GS>001<GS>AIM, Inc<GS>634 Alpha Drive<GS>Pittsburgh<GS>PA<RS><EOT>

In this format, the identifier "[)><RS>01<GS>" is followed by a date (YY), in this example, it is "96".

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The above data is encoded in a particular manner as follows:

1) The first 9 data characters [)><RS>01<GS>YY are extracted

2) The next 3 data elements separated by <GS>, representing respectively the zip code, country code and service class, are extracted and encoded in the primary message. In this example, they are 15238, 840 and 001.

3) The remaining string preceded with [)><RS>01<GS>YY is encoded in the secondary message. In this example, it is

[)><RS>01<GS>YYAIM, Inc<GS>634 Alpha Drive<GS>Pittsburgh<GS>PA<RS><EOT>

<RS>, <GS> and <EOT> indicate 3 characters with ASCII values 30, 29 and 4 respectively.

See Also:
Edit A Print Control

4.3.4.2 MCHT Command

This command is used to indicate whether or not to process the tilde character for MaxiCode barcode.

Command	Description
MCHT=0	Don't process the tilde character
MCHT=1	Process the tilde character

If "MCHT=1" is invoked, non-printable characters can be encoded with MaxiCode barcode 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).

Remarks:
An example of control character sequence to print MaxiCode barcodes:
bC=MC, R=0, MCMD=3, MCHT=0, D=

See Also:
Edit A Print Control

4.3.5 Micro PDF417

4.3.5.1 MPDFC Command

This command is used to specify the number of columns for Micro PDF417 barcode.

Command	Description
MPDFC=1	1 column
MPDFC=2	2 columns
MPDFC=3	3 columns

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MPDFC=4	4 columns

Remarks:
An example of control character sequence to print Micro PDF417 barcodes:
bC=MPDF, B=70, H=30, R=0, MPDFC=3, D=

4.3.6 Micro QRCode

4.3.6.1 MQRLV Command

This command is used to specify the error correction level for Micro QRCode barcode.

Command	Description
MQRLV=1	L (applicable to version M2, M3 and M4)
MQRLV=2	M (applicable to version M2, M3 and M4)
MQRLV=3	Q (applicable to version M4 only)

Remarks:
An example of control character sequence to print Micro QRCode barcodes:
bC=MQR, B=60, H=60, R=0, MQRLV=1, MQRVR=2, D=

4.3.6.2 MQRVR Command

This command is used to specify the version for Micro QRCode barcode.

Command	Description
MQRVR=1	Version M1 with the size 11 X 11
MQRVR=2	Version M2 with the size 13 X 13
MQRVR=3	Version M3 with the size 15 X 15
MQRVR=4	Version M4 with the size 17 X 17

Remarks:
An example of control character sequence to print Micro QRCode barcodes:
bC=MQR, B=60, H=60, R=0, MQRLV=1, MQRVR=2, D=

4.3.7 PDF417

4.3.7.1 PDFC Command

This command is used to specify the preferred number of columns for PDF417 barcode.

For example, if the preferred number of columns is 5, the **PDFC command** is PDFC=5.

The preferred number of columns should be between 3 and 30.

Remarks:
An example of control character sequence to print PDF417 barcodes:
bC=PDF, B=70, H=30, R=0, PDFC=3, PDFCL=2, PDFHT=1, PDFMD=1, PDFR=5**,** PDFTS=0, D=

See Also:

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4.3.7.2 PDFCL Command

This command is used to specify the error correction level for PDF417 barcode.

Command	Description
PDFCL=0	Error correction level 0
PDFCL=1	Error correction level 1
PDFCL=2	Error correction level 2
PDFCL=3	Error correction level 3
PDFCL=4	Error correction level 4
PDFCL=5	Error correction level 5
PDFCL=6	Error correction level 6
PDFCL=7	Error correction level 7
PDFCL=8	Error correction level 8

Remarks:

An example of control character sequence to print PDF417 barcodes:

bC=PDF, B=70, H=30, R=0, PDFC=3, PDFCL=2, PDFHT=1, PDFMD=1, PDFR=5**,** PDFTS=0, D=

See Also:

Edit A Print Control

4.3.7.3 PDFHT Command

This command is used to indicate whether or not to process the tilde character ("~") for PDF417 barcode.

Command	Description
PDFHT=0	Don't process the tilde character
PDFHT=1	Process the tilde character

If "PDFHT=1" is invoked, non-printable characters can be encoded with the PDF417 barcode 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).

Remarks:

An example of control character sequence to print PDF417 barcodes:

bC=PDF, B=70, H=30, R=0, PDFC=3, PDFCL=2, PDFHT=1, PDFMD=1, PDFR=5**,** PDFTS=0, D=

See Also:

Edit A Print Control

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4.3.7.4 PDFMD Command

This command is used to specify the encoding mode for PDF417 barcode.

Command	Description
PDFMD=0	Binary mode to encode the characters with the ASCII value between 0 and 255
PDFMD=1	Text mode to encode the printable characters with the ASCII value between 32 and 126, TAB character (ASCII value 9), LF character (ASCII value 10) and CR character (ASCII value 13).
PDFMD=2	Auto mode to achieve maximum encoding capacity.

Remarks:

An example of control character sequence to print PDF417 barcodes:

bC=PDF, B=70, H=30, R=0, PDFC=3, PDFCL=2, PDFHT=1, PDFMD=1, PDFR=5**,** PDFTS=0, D=

See Also:

Edit A Print Control

4.3.7.5 PDFR Command

This command is used to specify the preferred number of rows for PDF417 barcode.

For example, if the preferred number of rows is 6, the **PDFR command** is PDFR=6.

The preferred number of rows should be between 3 and 90.

Remarks:

An example of control character sequence to print PDF417 barcodes:

bC=PDF, B=70, H=30, R=0, PDFC=3, PDFCL=2, PDFHT=1, PDFMD=1, PDFR=5**,** PDFTS=0, D=

See Also:

Edit A Print Control

4.3.7.6 PDFTS Command

This command is used to indicate whether or not to truncate the right side of PDF417 barcode.

Command	Description
PDFTS=0	Don't truncate the right side of PDF417 barcode
PDFTS=1	Truncate the right side of PDF417 barcode

Remarks:

An example of control character sequence to print PDF417 barcodes:

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bC=PDF, B=70, H=30, R=0, PDFC=3, PDFCL=2, PDFHT=1, PDFMD=1, PDFR=5**,** PDFTS=0, D=

See Also:
Edit A Print Control

4.3.8 QRCode

4.3.8.1 QRLV Command

This command is used to specify the level of error correction allowing recovery for QRCode barcode.

Command	Description
QRLV=0	Level L
QRLV=1	Level M
QRLV=2	Level Q
QRLV=3	Level H

Remarks:
An example of control character sequence to print QRCode barcodes:
bC=QR, B=60, H=60, R=0, QRLV=1, QRMK=2, QRVR=9, D=

See Also:
Edit A Print Control

4.3.8.2 QRMK Command

This command is used to specify the mask pattern of QRCode barcode for improving the readability.

Command	Description
QRMK=0	Auto mask
QRMK=1	Mask value is 0
QRMK=2	Mask value is 1
QRMK=3	Mask value is 2
QRMK=4	Mask value is 3
QRMK=5	Mask value is 4
QRMK=6	Mask value is 5
QRMK=7	Mask value is 6
QRMK=8	Mask value is 7

Remarks:
An example of control character sequence to print QRCode barcodes:
bC=QR, B=60, H=60, R=0, QRLV=1, QRMK=2, QRVR=9, D=

See Also:
Edit A Print Control

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4.3.8.3 QRVR Command

This command is used to specify the version for QRCode barcode.

Command	Description
QRVR=0	Auto
QRVR=1	21 X 21
QRVR=2	25 X 25
QRVR=3	29 X 29
QRVR=4	33 X 33
QRVR=5	37 X 37
QRVR=6	41 X 41
QRVR=7	45 X 45
QRVR=8	49 X 49
QRVR=9	53 X 53
QRVR=10	57 X 57
QRVR=11	61 X 61
QRVR=12	65 X 65
QRVR=13	69 X 69
QRVR=14	73 X 73
QRVR=15	77 X 77
QRVR=16	81 X 81
QRVR=17	85 X 85
QRVR=18	89 X 89
QRVR=19	93 X 93
QRVR=20	97 X 97
QRVR=21	101 X 101
QRVR=22	105 X 105
QRVR=23	109 X 109
QRVR=24	113 X 113
QRVR=25	117 X 117
QRVR=26	121 X 121
QRVR=27	125 X 125
QRVR=28	129 X 129
QRVR=29	133 X 133
QRVR=30	137 X 137
QRVR=31	141 X 141
QRVR=32	145 X 145
QRVR=33	149 X 149
QRVR=34	153 X 153
QRVR=35	157 X 157
QRVR=36	161 X 161
QRVR=37	165 X 165
QRVR=38	169 X 169
QRVR=39	173 X 173
QRVR=40	177 X 177

Remarks:

An example of control character sequence to print QRCode barcodes:

bC=QR, B=60, H=60, R=0, QRLV=1, QRMK=2, QRVR=9, D=

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See Also:

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5 2D Barcode Data Capacity

5.1 PDF417

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.

5.2 DataMatrix

Format	Capacity (in digits)	Capacity (in alphanumeric characters)	Capacity (in bytes)
10 X 10	6	3	1
12 X 12	10	6	3
14 X 14	16	10	6
16 X 16	24	16	10
18 X 18	36	25	16
20 X 20	44	31	20
22 X 22	60	43	28
24 X 24	72	52	34
26 X 26	88	64	42
32 X 32	124	91	60
36 X 36	172	127	84
40 X 40	228	169	112
44 X 44	288	214	142
48 X 48	348	259	172
52 X 52	408	304	202
64 X 64	560	418	278
72 X 72	736	550	366
80 X 80	912	682	454
88 X 88	1152	862	574
96 X 96	1392	1042	694
104 X 104	1632	1222	814
120 X 120	2100	1573	1048
132 X 132	2608	1954	1302
144 X 144	3116	2335	1556
8 X 18	10	6	3
8 X 32	20	13	8
12 X 26	32	22	14
12 X 36	44	31	20
16 X 36	64	46	30
16 X 48	98	72	47

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5.3 Aztec

Format	Capacity (in digits)	Capacity (in alphanumeric characters)	Capacity (in bytes)
15 X 15 compact format	13	12	6
19 X 19	18	15	8
19 X 19 compact format	40	33	19
23 X 23	49	40	24
23 X 23 compact format	70	57	33
27 X 27	84	68	40
27 X 27 compact format	110	89	53
31 X 31	128	104	62
37 X 37	178	144	87
41 X 41	232	187	114
45 X 45	294	236	145
49 X 49	362	291	179
53 X 53	433	348	214
57 X 57	516	414	256
61 X 61	601	482	298
67 X 67	691	554	343
71 X 71	793	636	394
75 X 75	896	718	446
79 X 79	1008	808	502
83 X 83	1123	900	559
87 X 87	1246	998	621
91 X 91	1378	1104	687
95 X 95	1511	1210	753
101 X 101	1653	1324	824
105 X 105	1801	1442	898
109 X 109	1956	1566	976
113 X 113	2116	1694	1056
117 X 117	2281	1826	1138
121 X 121	2452	1963	1224
125 X 125	2632	2107	1314
131 X 131	2818	2256	1407
135 X 135	3007	2407	1501
139 X 139	3205	2565	1600
143 X 143	3409	2728	1702
147 X 147	3616	2894	1806
151 X 151	3832	3067	1914

5.4 QRCode

5.4.1 Level L

Version	Capacity (in digits)	Capacity (in alphanumeric characters)	Capacity (in bytes)
1	41	25	17
2	77	47	32
3	127	77	53

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4	187	114	78
5	255	154	106
6	322	195	134
7	370	224	154
8	461	279	192
9	552	335	230
10	652	395	271
11	772	468	321
12	883	535	367
13	1022	619	425
14	1101	667	458
15	1250	758	520
16	1408	854	586
17	1548	938	644
18	1725	1046	718
19	1903	1153	792
20	2061	1249	858
21	2232	1352	929
22	2409	1460	1003
23	2620	1588	1091
24	2812	1704	1171
25	3057	1853	1273
26	3283	1990	1367
27	3517	2132	1465
28	3669	2223	1528
29	3909	2369	1628
30	4158	2520	1732
31	4417	2677	1840
32	4686	2840	1952
33	4965	3009	2068
34	5253	3183	2188
35	5529	3351	2303
36	5836	3537	2431
37	6153	3729	2563
38	6479	3927	2699
39	6743	4087	2809
40	7089	4296	2953

5.4.2 Level M

Version	Capacity (in digits)	Capacity (in alphanumeric characters)	Capacity (in bytes)
1	34	20	14
2	63	38	26
3	101	61	42
4	149	90	62
5	202	122	84
6	255	154	106
7	293	178	122
8	365	221	152
9	432	262	180
10	513	311	213

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11	604	366	251
12	691	419	287
13	796	483	331
14	871	528	362
15	991	600	412
16	1082	656	450
17	1212	734	504
18	1346	816	560
19	1500	909	624
20	1600	970	666
21	1708	1035	711
22	1872	1134	779
23	2059	1248	857
24	2188	1326	911
25	2395	1451	997
26	2544	1542	1059
27	2701	1637	1125
28	2857	1732	1190
29	3035	1839	1264
30	3289	1994	1370
31	3486	2113	1452
32	3693	2238	1538
33	3909	2369	1628
34	4134	2506	1722
35	4343	2632	1809
36	4588	2780	1911
37	4775	2894	1989
38	5039	3054	2099
39	5313	3220	2213
40	5596	3391	2331

5.4.3 Level Q

Version	Capacity (in digits)	Capacity (in alphanumeric characters)	Capacity (in bytes)
1	27	16	11
2	48	29	20
3	77	47	32
4	111	67	46
5	144	87	60
6	178	108	74
7	207	125	86
8	259	157	108
9	312	189	130
10	364	221	151
11	427	259	177
12	489	296	203
13	580	352	241
14	621	376	258
15	703	426	292
16	775	470	322
17	876	531	364

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18	948	574	394
19	1063	644	442
20	1159	702	482
21	1224	742	509
22	1358	823	565
23	1468	890	611
24	1588	963	661
25	1718	1041	715
26	1804	1094	751
27	1933	1172	805
28	2085	1263	868
29	2181	1322	908
30	2358	1429	982
31	2473	1499	1030
32	2670	1618	1112
33	2805	1700	1168
34	2949	1787	1228
35	3081	1867	1283
36	3244	1966	1351
37	3417	2071	1423
38	3599	2181	1499
39	3791	2298	1597
40	3993	2420	1663

5.4.4 Level H

Version	Capacity (in digits)	Capacity (in alphanumeric characters)	Capacity (in bytes)
1	17	10	7
2	34	20	14
3	58	35	24
4	82	50	34
5	106	64	44
6	139	84	58
7	154	93	64
8	202	122	84
9	235	143	98
10	288	174	119
11	331	200	137
12	374	227	155
13	427	259	177
14	468	283	194
15	530	321	220
16	602	365	250
17	674	408	280
18	746	452	310
19	813	493	338
20	919	557	382
21	969	587	403
22	1056	640	439
23	1108	672	461
24	1228	744	511

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25	1286	779	535
26	1425	864	593
27	1501	910	625
28	1581	958	658
29	1677	1016	698
30	1782	1080	742
31	1897	1150	790
32	2022	1226	842
33	2157	1307	898
34	2301	1394	958
35	2361	1431	983
36	2524	1530	1051
37	2625	1591	1093
38	2735	1658	1139
39	2927	1774	1219
40	3057	1852	1273

6 Troubleshooting Guide

6.1 "MW6 Demo" For The Trial Version

If you use the trial version software to print the linear barcodes such as Code 128 and Code 39, you will see "MW6 Demo" displayed in the barcode, for the full version software, this string will not be there.

6.2 Unknown Escape Code

The most common SAPlpd error message is "**Unknown Escape Code** ...", which indicates that SAPlpd.exe doesn't understand the data steam from the SAP spool server.

Do the following things:

1. Ensure that you have followed the step-by-step configuration instructions.

2. Ensure that the print control only contains the valid characters.

6.3 No Barcodes Are Printed

Ensure that you are using a correct host spool access method.

Please refer to the "Host Spool Access Method" for more details.

6.4 2D Barcode String Length Limit

Both SAPscript and Smart Forms only allow up to 70 characters for each barcode. This restriction, in some cases, will cause the problems for 2D barcodes, since they are quite often used to encode a large amount of data. Fortunately, there are a few workarounds available:

1. For SAPScript:

   - Select a smaller font size, please refer to the **SAP Note 197177**.

   - Use the new command "RAWTEXT", please refer to the **SAP Note 497491**.

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2. For Smart Forms, please refer to the **SAP Note 497380**.

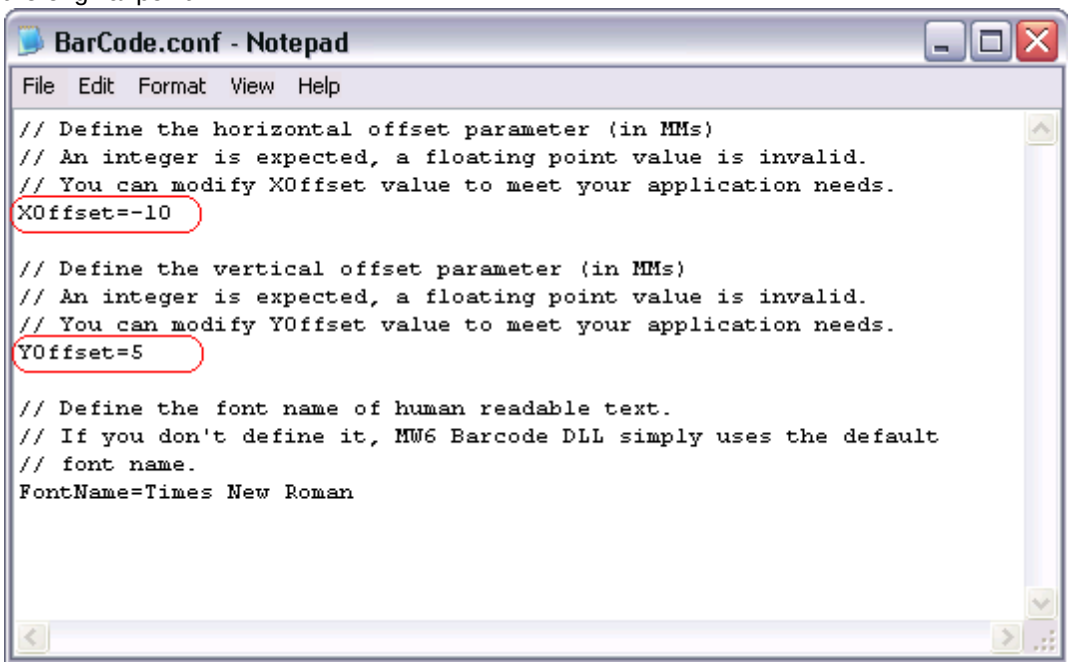
6.5 Wrong Barcodes Are Printed

You always get wrong type of barcodes (e.g. Interleaved 2 of 5) printed out, though you specify a different type of barcode in the print control. The reason could be that you use SAPWIN instead of SWIN as the base device type, so double check the step "Create A New Device Type" to ensure you use SWIN as the base device type.

7 BarCode.conf File

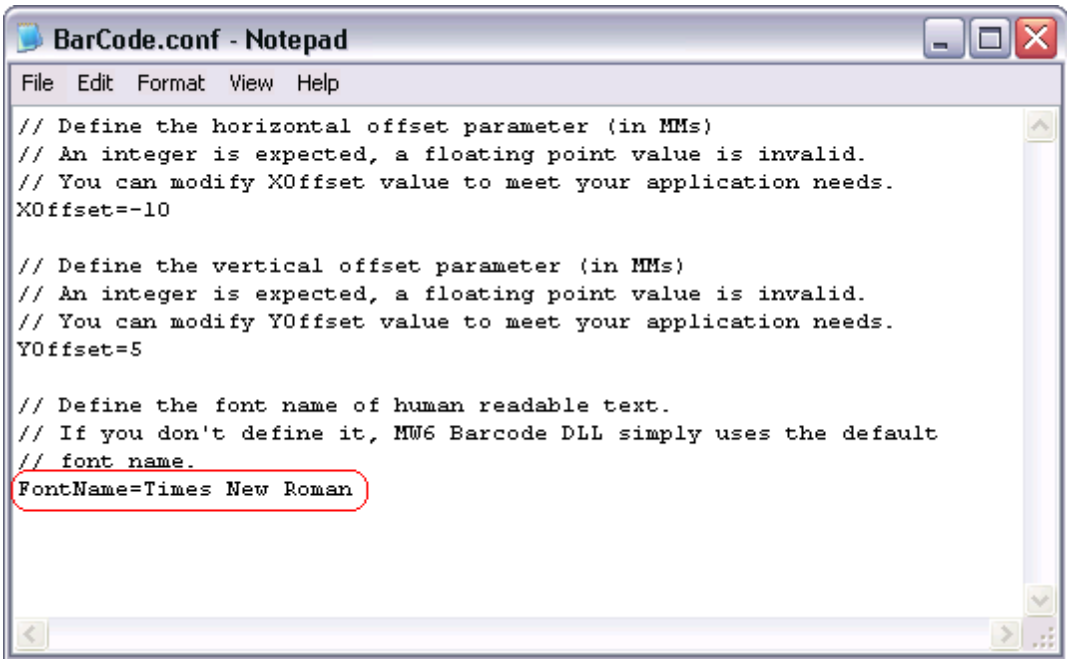
You can modify the parameters in *BarCode.conf* file to adjust the position of the printed barcode and change the font name of the human readable text, all parameters are defined line by line.

The horizontal offset parameter ("XOffset") and the vertical offset parameter ("YOffset") are defined in millimeters (MMs), a positive offset indicates that the printed barcode is positioned to the right or bottom of the original point, a negative offset indicates that the printed barcode is positioned to the left or top of the original point.



The font name parameter ("FontName") is used to define the font name of the human readable text.

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See Also:

FS Command

8 License

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