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SAP Business One 10.0 Generate barcodes with Excel and output them in Word as labels in a mail merge **SBO3501-EN**

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Background information on barcode 128

Definition

Code128 is an alphanumeric barcode with a high information density. The basic structure of a Code128 symbol consists of a start character, the user information, the check digit and the stop character.

Source: Wikipedia

Due to the additional information such as start characters and check digits, a font cannot be used directly. The information to be encoded must first be prepared. In this document, we use a Microsoft Excel function in Visual Basic for Applications (VBA) for this purpose.

Examples





Barcode 128



SAP Business One Cloud





Requirements

Step 1: Install Code 128 font

- Download the Code 128 font either directly via <u>code_128.zip</u> or from the <u>dafont.com</u> website
- Extract the ZIP file and install the font it contains by double-clicking on code128.ttf You may need to be logged on to your PC as an administrator

Step 2: Download the Excel macro template

- Download the <u>VBA_Code128.txt</u> file. This file contains the template for an Excel macro.
 The Excel macro is based on the work of <u>GRAND ZEBU</u> under the GNU LGPL license.
- Open text file e.g. with application editor

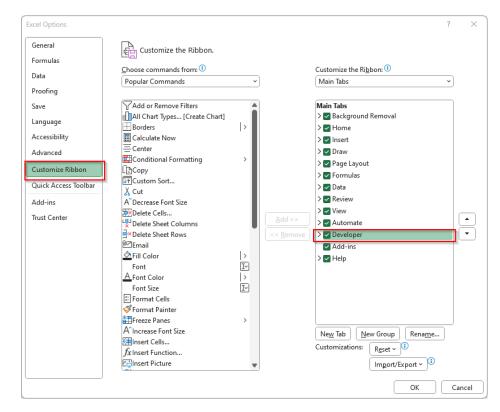
Step 3: Enable Developer ribbon in Excel

- Open Excel
- Make sure that the "Developer" ribbon is active or activate it:

File > Options > Customize Ribbon

Check Developer and confirm with "Ok".

You may need to be logged on to your PC as an administrator



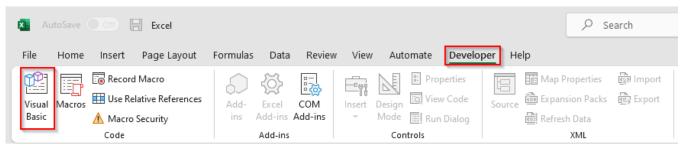




Create Excel template with VBA function Code128() (1/2)

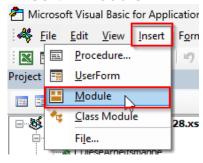
Step 4: Paste the Visual Basic function Code128() into the Visual Basic Editor

Open the Visual Basic Editor
 Entwicklertools > Visual Basic

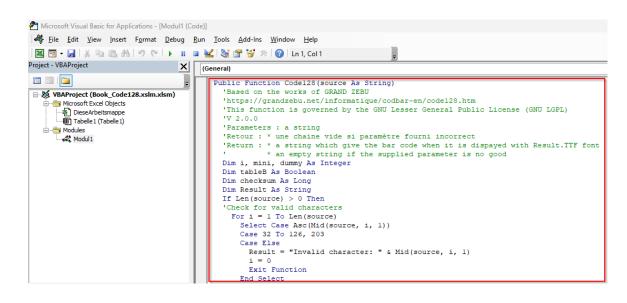


Insert new module

Insert > Module



 Copy and paste the Visual Basic code from the Code128.txt file into Module1







Create Excel template with VBA function Code128() (2/2)

Step 4: Continuation

- Close the Visual Basic Editor
- Save the Excel file as a template, e.g. with the name Book_Code128.xlsm
 Note: The file extension xlsm stands for Excel with macro
- Alternatively, you can also download this Excel template directly as a zip file: Book_Code128.zip.

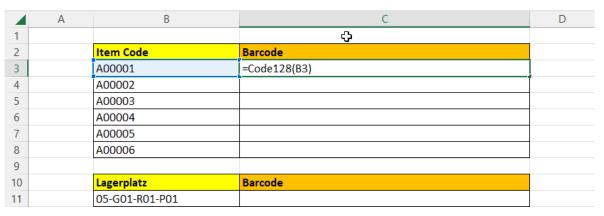




Apply function Code128()

Step 5: Apply function Code128()

- Set up an example for item codes or bin locations
- Insert the Code128() function into the Barcode cell:



Intermediate result:

	Α	В	С	D
1				
2		Item Code	Barcode	
3		A00001	ìA0Ç ![î	
4		A00002		

- Use Code128 font and set font size to 48, for example
- End result:







Test Code128() function online

Step 6: Test Code128() function online

• Save the previously created barcode as a screenshot, e.g. with the Microsoft Sniping Tool



Screenshot



- Open web site https://products.aspose.app/barcode/en/recognize
 Upload previously saved screenshot
- Compare result:







Output labels in Microsoft Word as a mail merge (1/5)

Step 1: Preparations

• In this example, we also generate barcodes in Excel for the other items A00002 to A00006 and delete the bin locations.



- We save this file as e.g. mail_merge.xlsx
 This file no longer needs to contain macros.
- Open Microsoft Word

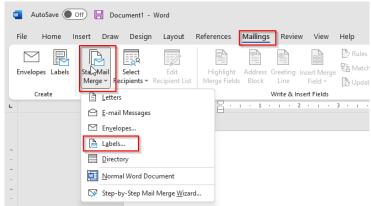




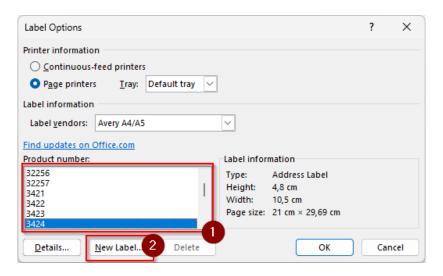
Output labels in Microsoft Word as a mail merge (2/5)

Step 2: Set up serial letter

Mailings > Start Mail Merge > Labels ...



• Either select a specific label from the list (1) or create a New Label ... (2)



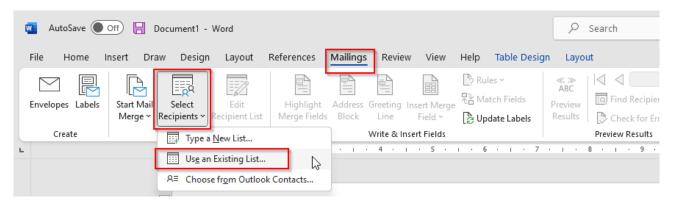




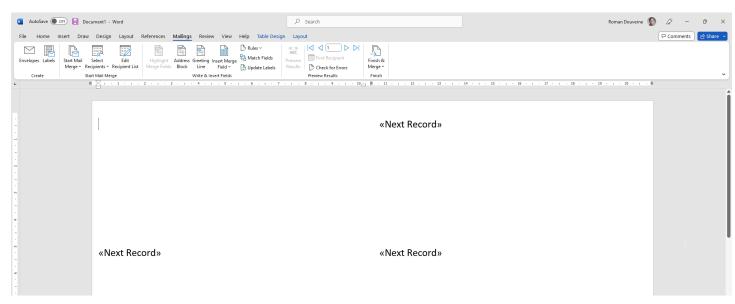
Output labels in Microsoft Word as a mail merge (3/5)

Step 3: Read data source

Mailings > Select Recipients > Use an Existing List ...



- In the "Select data source" dialog, select the file previously saved in Excel and then, for example, confirm the first spreadsheet with "Ok" as the data source.
- Result:



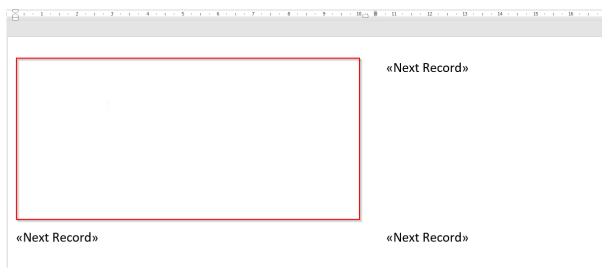




Output labels in Microsoft Word as a mail merge (4/5)

Step 4: Design reference label

The label on the top left is the reference label



- Insert into reference label barcode and item code using Mailings > Insert Merge Field
- Design the reference label: For example, center both fields, set the font Code128 for the barcode and the font size to 48.
- Intermediate result:



«Item_Code»

If there are problems with characters to the right of the barcode, then mark them and select the default font

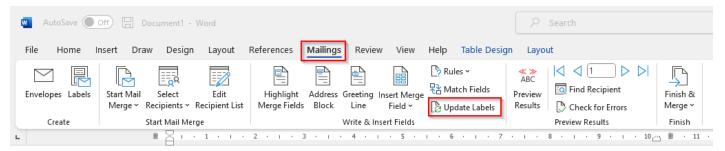




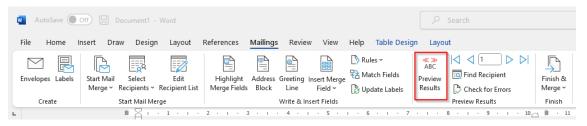
Output labels in Microsoft Word as a mail merge (5/5)

Step 5: Transfer the design of the reference label to the other labels

Mailings > Update Labels



Preview Results



Result



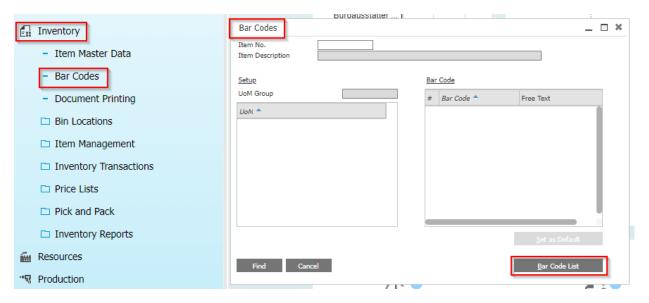
Labels can now be printed
 e.g. using Finish & Merge > Print Documents ...



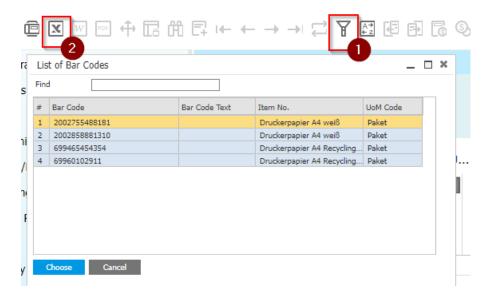


Appendix 1: SAP Business One item master as data source

Inventory > Bar Codes > Barcode Liste



- In dialog List of Bar Codes consider to set filter (1) and export list to Excel (2)
- Continue to work with Excel using function Code128()

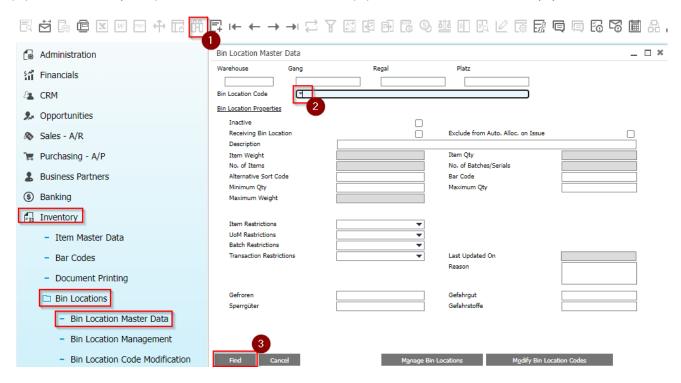




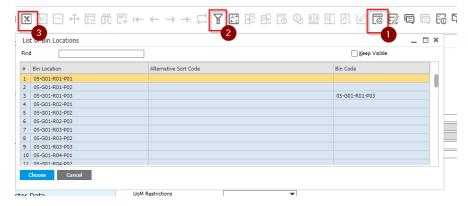


Appendix 2: SAP Business One bin locations as data source

Inventory > Bin Locations > Bin Location Master Data
 Switch to search (1), insert ,*" (star) for Bin Location Code (2) and click on ,Find" (3)



- In dialog List of Bin Locations insert column "Bar Code" (1) if needed (reopen of dialog required afterwards), consider to set filter (2) and export list to Excel (3)
- Continue to work with Excel using function Code128()













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