7. Custom printing

7.1. Custom Layout Printing

Report printing can be customized in Produmex Scan by using the customization technology described in: Customization Technology for Produmex Scan. A report can be printed with user queries in the following cases:

- The report is defined in SAP Business One, or
- The report is located in a folder Produmex Service Broker can access.

7.1.1. Import the report

Use the HanaReportSettingTool to configure the correct connection of the report file in HANA environment. You can read more about the tool in the UserGuide

Import the report in SAP Business One with the *Report and Layout Import Wizard*. Select 'Inventory > Inventory Reports' as the location.

Main Menu	Report and Layout Manager		
TEST_SCAN, Branch: manager	List Search		
Modules Drag & Relate My Menu	Report and Layout Import Wizard		
Administration	file Selection		
Choose Company	The Generation		
Exchange Rates and Indexes			
System Initialization			
🗁 Setup	To specify a file for import, choose the "Browse" button.		
🗁 General			
Users	Cileto and the second of the second sec		
 User Defaults 	Select a content type for the speched me, then choose the button to specify a destination:		
 Sales Employees/Buyers 	Content Type		
Territories	Layout Report		
Commission Groups			
Predefined Text	Inventory > Inventory Reports >		
Reference Field Links			
Ereight			
Message Preferences			
Report and Layout Manager		Export	
Server Print Configuration			
	To continue, choose the "Finish" button.		
	Step 1 Cancel Back Next Finish		

To see the details of the report, open the Report and Layout Manager and select the report from the Inventory Reports. The report ID will identify the report in the user queries.

Asterisk Indicates 🔽 Report 🔽 Layout	ID	PCPI0012	Description	[
Pick and Pack*	Need		Description	
▼ Inventory Reports*	Name	LABELIEST		
Electronic Reports	Last Updated	05/23/17		
▶ Items List*	Author	manager		
Last Prices Report*	Status	Active 💌	Printer	Default
Inactive Items*	B1 version		1st Page Printer	None
Inventory Posting List*	0.110.1			
Inventory Status*	Crystal Reports		No. of Copies	1
Inventory in Warehouse Report*	Localization			
Inventory Audit Report*				
Inventory Valuation Simulation Report	Menu Location	Inventory* > Inventory Report	ts* >	
Serial Number Transactions Report*				
Batch Number Transactions Report* ##				
Bin Location List*	Visi <u>b</u> le For Mobil	e		
Bin Location Content List*				
Price Report*	Price Report*			
Discount Group Report*				
Inventory Counting Transactions Rep				
Inventory Valuation Method Report				
Inventory Turnover Analysis				
LABELTEST				
Resources	Run Report	Edit Set Authorizatio	n .	You Can Also
				100 0011100

7.1.2. Examples

Example 1: Add customization on the Done button event for the Create GR PO screen

Create the user Query in the Query Manager. The name of the user query must be the name of the Produmex Scan event.

Include the report ID and the report parameters in the user query.

Field Explorer	φ×	LABELTEST ×
 Parameter Fields Parameter Fields 		Design
ItemCode Image: SerialNumber Image: SerialNumber Image: SerialNumber Item_ItemName Item_ItemName Item_ItemName Item_ItemName Item_ItemName Item_ItemName Item_ItemName Item_ItemName Item_ItemName ItemSecond ItemSecond		ItemCode ?Item_ItemName Ode ars CodeBars ?Natch umber
		?SerialNumber ?BatchNumber ?Quantity

Query name: BXMobileWH9_CreateGoodsReceiptPOQuantitiesNormalScreen_OK_clicked

```
SELECT
    'RCRI0012' "PrintLayout$",
    SUBSTRING ($[TextItem], 1 , CHARINDEX ('*', $[TextItem]) - 2 )
"Print_ItemCode",
    SUBSTRING ($[TextItem], CHARINDEX ('*', $[TextItem]) + 2, LEN
($[TextItem]) - CHARINDEX ('*', $[TextItem])) "Print_Item_ItemName",
    '' "Print_SerialNumber",
    '' "Print_BatchNumber",
    $[DataRepeater.SelectedUIOnHandQuantity] "Print_Quantity",
    'PDFCreator' "PrintPrinter$",
    'Document PRINTING' "Message$", 'I' "MessageType$"
```

HANA

```
SELECT
    'RCRI0012' "PrintLayout$",
    SUBSTRING ($[TextItem] , 1 , LOCATE ($[TextItem], '*') - 2 )
"Print_ItemCode",
    SUBSTRING ($[TextItem], LOCATE ($[TextItem], '*') + 2, LENGTH
($[TextItem]) - LOCATE ($[TextItem], '*') ) "Print_Item_ItemName",
    '' "Print_SerialNumber",
    '' "Print_BatchNumber",
    $[DataRepeater.SelectedUIOnHandQuantity] "Print_Quantity",
    'PDFCreator' "PrintPrinter$",
    'Document PRINTING' "Message$", 'I' "MessageType$"
    FROM DUMMY
```

The user query does the following:

Sets the parameters of the selected report to the values entered on the screen and sends it to the defined printer. Then displays the 'Document printing' message.

Report parameters in the example:

- Item code and name
- On hand quantity
- Batch number
- Serial number

Adjust the example query.

- Replace the *PrintLayout*\$ value with the Report ID (in the example the report ID is RCRI0012).
- Replace the *PrintPrinter*\$ value with your printer name (in the example the printer name is PDFCreator).

The label will be printed with the printer set in the user query regardless of the default printer of the employee.

By default only one label is printed. Adjust the value of the labels with the *PrintCopies*\$ parameter. The label is printed after the 'Done' button is pressed on the Create GR PO Quantities screen.

🐮 Create	GR PO 🔰 🗱 🌪 🛲 🗙	🖳 Customization – 🗆	×
C n	A1000 * Normal Paper	BXMobileWH9_CreateGoodsReceiptPOQuantitiesNormalScreen_Load : False	^
Bin Loc.	02-DOCKS	BXMobileWH9_CreateGoodsReceiptPOQuantitiesNormalScreen_KeyPreview : False BXMobileWH9_CreateGoodsReceiptPOQuantitiesNormalScreen_ExternalScreenLoad : False	
UoM	pcs	BXMobileWH9_CreateGoodeReceiptPOQuantitiesNormalScreen_Activate : False BXMobileWH9_CreateGoodsReceiptPOQuantitiesNormalScreen_OK_clicked : True	
Quantity	Add Upd	BXIMobile Wind_CreateGoodsReceipt POquantitiesNormalScreen_option_circxed - raise BXMobileWH9_CreateGoodsReceiptPOQuantitiesNormalScreen_ButtonPrint_click : False	
02-DOCKS	- 15 pcs	BXMobileWH9_CreateGoodsReceiptPOQuantitiesNormalScreen_ButtonUpdate_click ; False BXMobileWH9_CreateGoodsReceiptPOQuantitiesNormalScreen_ButtonUpdate_click ; False BXMobileWH9_CreateGoodeReceiptPOQuantitiesNormalScreen_ButtonUpdate_click ; False	
		BXMobileWH9_CreateGoodsReceiptPOQuantitiesNomalScreen_ButtonAdd_click : False BXMobileWH9_CreateGoodsReceiptPOQuantitiesNomalScreen_ButtonAdd_click : False BXMobileWH9_CreateGoodsReceiptPOQuantitiesNomalScreen_TextQuantity_validate : False	
	-	BXMobileWH9_CreateGoodsReceiptPOQuantitiesNomalScreen_TextQuantity_validate_after : False BXMobileWH9_CreateGoodsReceiptPOQuantitiesNomalScreen_DataRepeater_ExternalScreenLoad : False BXMobileWH9_CreateGoodsReceiptPOQuantitiesNomalScreen_DataRepeater_InternalDataLoad : False BXMobileWH9_CreateGoodsReceiptPOQuantitiesNomalScreen_DataRepeater_FocusedChanged : False	
Print	Qty 15 of 20 pcs	BXMobileVH3_CreateGoodsReceiptPOQuantitiesNomalScreen_textBinLocation_validate : False BXMobileWH9_CreateGoodsReceiptPOQuantitiesNomalScreen_TextBinLocation_validate_after : False	~
Don	e Cancel	Close	

Example 2: Print label for the delivery selected on the Delivery field after the report ID is added on the Packing screen

Add a new custom 'Label' field. Insert the following record to the Customization Fields user table:

Field Name	Labels	Screen
RPTCode	Label	PackingScreen

Create two new user queries in the Query Manager.

The first query will trigger the printing if the Label field is not empty. Link this user query to the RPTCode field validation event.

After the report ID is added to the field, a confirmation message will pop up. Press the Yes button to print the label.

Query name: *BXMobileWH9_PackingScreen_RPTCode_validate*

```
IF $[RPTCode]<>'' AND $[TextDeliveryDocNum]<>''
SELECT
    'Print labels: ' + $[RPTCode] AS 'Message$',
    'YM' AS 'MessageType$'
```



The second query will define the printer and the report parameter values. Link this user query to the *validation_after* event of the custom Label field. The query will run if the user presses the 'Yes' button on the confirmation message screen.

Query name: BXMobileWH9_PackingScreen_RPTCode_validate_after

```
IF $[RPTCode]<>'' AND $[TextDeliveryDocNum]<>''
SELECT $[RPTCode] AS PrintLayout$,
(SELECT DocEntry FROM ODLN WHERE DocNum=$[TextDeliveryDocNum]) AS
[Print_DocKey@],
'PDFCreator' AS PrintPrinter$,
'Report print: '+ $[RPTCode] AS 'Message$', 'I' AS 'MessageType$'
```

Replace the *PrintPrinter*\$ value with your printer name (in the example the printer name is PDFCreator).

7.2. Advanced printing configurations for Produmex Scan

With the advanced printing configurations printing issues caused by incorrect server/database connection settings in Crystal Reports can be solved.

To add the advanced printing configurations, run the following query on the database: **SQL**

```
INSERT INTO "VALI002"."@BXPCONFIG" ("Code", "Name", "U_BXPDescr",
"U_BXPValue", "U_BXPVType", "U_BXPRowVr")
VALUES('BXMPRA0', 'BXMPRA0', 'Crystal Reports connection parameters', '54',
1, NULL)
```

A new record will be inserted to the BXPCONFIG table. With this record the following parameters can be set:

- PRINTERADVANCEDOPTIONS_SETTABLELOGON = 1;
- PRINTERADVANCEDOPTIONS_SETTABLECONNECTION = 2;
- PRINTERADVANCEDOPTIONS_SETSUBREPORTS = 4;
- PRINTERADVANCEDOPTIONS_DISSOCIATESIZE = 8;
- PRINTERADVANCEDOPTIONS_USEPRINTERSETTINGS = 16;
- PRINTERADVANCEDOPTIONS_USECONNECTIONCLONE = 32;
- PRINTERADVANCEDOPTIONS_USESETTINGWITHNAME = 64;

The value of **BXMPRAO** is the sum of the value of the enabled parameters.

The default and recommended value is 54. It means that the Settable connection (2), the Set sub reports (4), the Use printer settings (16) and the Use connection clone (32) parameters are enabled (2+4+16+32=54) by default.

Do not change the default value. If the issue persists, please contact Produmex support.

Enabled settings:

- Settable connection (2): Creates a new connection structure with the actual parameters.
- Set sub reports (4): Applies the (1) and (2) setting to the sub reports as well.
- Use printer settings (16): Uses a non-standard access to printer settings.
- Use connection clone (32): Uses a clone of the connection structure.

Other settings that can be enabled:

- Settable log on (1): Resets the server/database connection to the actual in the tables of the existing structure. This setting is not taken into account if the Settable connection (2) setting is also enabled.
- Dissociate size (8): Enables the 'Dissociate Formatting Page Size and Printer Paper Size' option.
- *Use setting with name* (64): Uses both the standard and non-standard access to the printer settings.

Known cases:

* The error message 'Not supported within subreports'

Set the value to 1

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