

Printing Labels from Microsoft BizTalk RFID Provider

User Manual

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Overview

SATO distributes the BizTalk RFID Device Provider for Microsoft BizTalk Server. Users can print out RFID tags from a SATO XML RFID enabled printer using the BizTalk RFID Device Provider. This document is to explain the following steps to test print a RFID Tag from BizTalk RFID Manager.

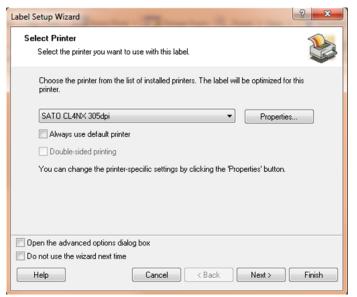
- Design NiceLabel template and export
- Upload the template to SATO Printer using BizTalk RFID Manager
- Use Microsoft BizTalk RFID Manager to perform test print.

Design and Export Template with NiceLabel Pro

2.1. Create label template using the NiceLabel Pro software.

2

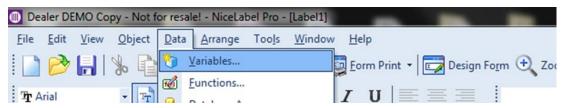
- 1. Create a new label using the NiceLabel Pro software.
- 2. Select RFID Enabled Printer Driver from Label Setup Wizard.



3. Click Next and setup the label size.

Label Setup Wizard	-				? ×			
Page Size A4-2 Select the paper size that best matches your needs. Isuation								
option to aut dimensions a O <u>A</u> utomatic O <u>Select pa</u>	Define the page size for your labels. When using thermal printers, always select the first option to automatically set the page size based on the label dimension. Label dimensions are then set in the following steps. Automatically set from label dimensions (default) Select page size							
Page size Custom					•			
 ₩idth:	3.937	inch	H <u>e</u> ight:	2.756	inch			
Help		Cance	I < <u>B</u> ack	<u>N</u> ext >	<u> </u>			

4. From the main Menu, select Data -> Variables to add variables.



5. Click the "New" button to add variable. Make sure to add TagData (length 24), TagIdentifier variable with exact name described here. It is important to follow exact name in order to print correctly by BizTalk RFID System.

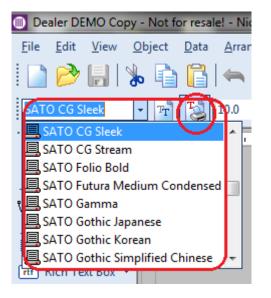
Variable ? X	Variable 2
General Serialization Data Processing Prompting Validation	General Serialization Data Processing Prompting Validation
About	About
Name:	Name:
TagData	Tagldentifier
Description:	Description:
Source	Source Prompt
Length	Length
Maximum length: 24 C	Maximum length: 10 👙
<u>Multiline</u>	Multiline
± of lines: 1 ↓	± of lines: 1 ♀
Use <u>v</u> ariable value as label quantity	☐ Use <u>v</u> ariable value as label quantity
Basic << OK Cancel Help	Basic << OK Cancel Help

6. Create the variables as shown below.

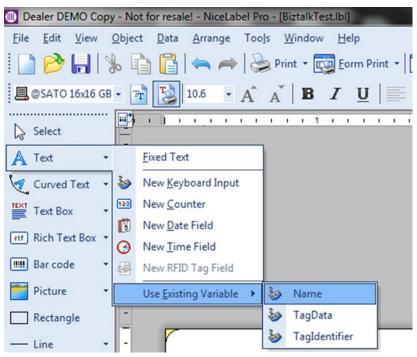
Variables		? ×
	s an entity that stores a data value. Link label objects wi to print each label with different field values.	th variables when
~@~@	Name TagData TagIdentifier	<u>Wizard</u> New <u>E</u> dit Delete
		<u>C</u> opy 1, 2, 3,
		<u>Export</u>
Show	internal variables	
	Close	Help

7. Add Fields to the design.

It is preferable to use SATO printer resident font for all items for the optimize performance. However, static fields may use any font such as TTF Fonts. For variables fields, only printer resident font MUST be used.



8. To add Variable Text or Barcode, click the down arrow icon at the right edge of the selected Tool, select "Use Existing Variable" and select the desired variable to add.



9. For RFID Tag, select RFID Tag Data from sub menu. Select EPC from Data Fields List and choose Variable Radio Button. Choose TagData from the dropdown list beside and click OK to confirm.

RFID Tag			
Write data to RFID tag			
Iype: EPC (Class 1) Ger	n2	<u> →</u> <u> </u>	Read and Store RFID Tag Data
Data Fields AFI type Access Code EPC KIII Code User Data	Data Block Use EPC encoding Data type: ASCII string Data source: Eixed Variable	TagData	Data size:
			OK Cancel <u>H</u> elp

10. Lastly, add Text Field with variable Tagldentifier into design and place anywhere within the label. This is required by BizTalk RFID System and will NOT be printed into actual label. The final label should look similar to below screenshot.



11. Save the label design before proceeding.

2.2. Exporting Design as Template

 Once the label is designed and saved, export the template into text file and upload to printer through BizTalk RFID Manager. By exporting the template file can be reused easily for multiple printers. In order to export to text file, set the Printer Port to "FILE:" at the printer properties dialog under Control Panel -> Printers & Faxes.

Print to the f checked por		cuments will print to the first free			
Port	Description	Printer	*]	
 LPT3: COM1: COM2: COM3: COM4: COM5: 		THT_50 LAN_10.65.2.247			
FILE:	Print to File	THT_50 FILE:, SATO CL4NX 3	05 .		
Add	Port	Delete Port Configure F	Port]	
	directional support inter pooling				

2. Click File-> Export->Export to Printer.

In "Select Export Method" dialog, select "XML export: Internal Flash" option and click OK.

	ealer DEMO Copy - Not for resale! - NiceLabel Pro - [Bizta	lkTest.lbl]	
	<u>E</u> dit <u>V</u> iew <u>O</u> bject <u>D</u> ata <u>Arrange</u> Too <u>l</u> s	<u>W</u> in	1	Select Export Method
	New Ctrl+N New from Template		Eorm Print 🔹 🔂 Design Form 🕂 Zo	There is more than one export method available. Please select the desired method below.
2	Open Ctrl+O		β <i>Ι</i> <u>U</u> ≣≣≣⊒,	
	Close Ctrl+F4		1 1 1 1 1 1 1 1 2 1 1 1	Legacy export : Internal Flash Legacy export : Memory Cartridge
₿	Save Ctrl+S			Xml export : Internal Flash Xml export : Memory Cartridge
	Save <u>A</u> s			
	Import	•		
	Export	•	Export to Printer	
	Label Setup		<u>G</u> eneral Export	
	Properties		Export to Pocket PC	
	Stoc <u>k</u> Management		Export to SAP	
	P <u>r</u> int Setup		Export to EPS	OK Cancel
20	Printer Settings		Export to Graphics	
Ø	Print Pre <u>v</u> iew Ctrl+R		Printer Template Export Configuration	
2	Print Ctrl+P		RedPrairie	
	Form Print Ctrl+F		Click Reply	
	*			

3. It will prompt a dialog for output file name; enter the desired template file name with full path from the entry box.

Printing	8	<u> </u>
'BiztalkTe SATO CL4NX 30	 	
Print to File Output File Name:		СК
c:\temp\BizTalkTest.bt		Cancel

Upload Template to Printer via BizTalk RFID Manager

3.1. Add Template

- 1. Open RFID Manager and go to Devices.
- Select the printer and right click Print ->Manage Templates Menu to view template stored in printer.

Click "Add" button and select template file to upload the new template. If uploading template with same format name, the existing template should be deleted first using "Delete" button.

3

RFID Services Administration GBS-D-PB015MBK (local)	Devices						
Processes	Name	Status		Address	Provider	Description	
devices	SATO CLANY HE Closed Disable			10.65.2.115:9100	SATO RFID DP	SATO CL4NX testing printer	
Device Groups SATO NX							
Device Providers		Versions					
-B4		Apply Template					
		View Tags Print		Print Label			
			- í	Manage Templates.	-		
		Properties		Wanage Templates.			
		Statistics					
	Se Ma	nage Templates					
	Tem	plate previe <u>w</u> :	The fol	llowing <u>t</u> emplates are co	onfigured on the pri	nter:	
			Nam	e			
			Bi	ztalk RFID			
				-			
				Add	Delete	Set D <u>e</u> fault	

🕞 Print Template	×
	 ✓ 4 Search temp
Organize 🔻 New folder	8≡ ▼ 🗔 📀
 Desktop Downloads Recent Places Libraries Documents Git Music Pictures Videos 	<pre>^ ,-A-CC2-YS,001-/Y,BiztalkTest-/ X,01,24,TagData-IPOe:h,epc:,fsw :1;-%2-H116-V00276-P02-RDA@ 0,043,042,Name:-/X,03,50,Name-% 2-H1006-V00274-P02-RDA@ 0,043,042,> I000000000000000000000000000000000000</pre>
r Computer	
Windows7_OS (C Real EXT_HDD (D:)	• •
File <u>n</u> ame: BizTalkTest.txt	✓ All files (*,*) ✓ Open Cancel

3. The list will be refreshed with the newly uploaded template.

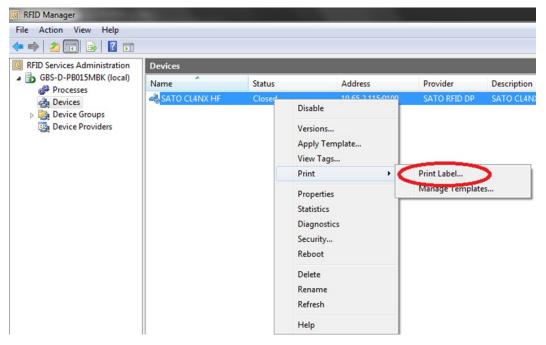
😂 Manage Templates	×
Template previe <u>w</u> :	The following templates are configured on the printer: Name Biztalk RFID BiztalkTest
	Add Delete Set Dgfault
	Close

4

Printing RFID Tag from BizTalk RFID Manager

4.1. Print Tag

1. Select Print Label menu from printer context menu.



2. Click "Next" until the "Template Selection Screen". Select desired template to print and click "Next".

RFID Print Label Wizard		
Select Print To	emplate	
Introduction Select Print Template	Select Print Templ	ate
Print Information Summary	Select the template	to use for printing labels.
	<u>I</u> emplate:	Bitali Test
		< Previous Next > Einish Cancel

3. Fill in the variables to print. Click "..." button for variable data entry box.

	Introduction Select Print Template Print Information Summary	in the tag and the data for the var		
ne Provide the value for t nformation, if any.	he variable field and increment	Count: Pass code: Access code:		
(alue:	TestingName	Confirm access code: Kill code:		
Increment Informa	0 <u>+</u>	Confirm kill code:		
Start Position:	0	Lock targets: Input for variable fields in the pr	Both -	
End Position: Data Format:	0 💽 Decimal 👻	Name TagData TaoIdentifier		
	OK Cancel	Name Text Variable		

4. Make sure to input 24 Hex char for "TagData" and minimum 4 Hex char for "TagIdentifier". "TagIdentifier" cannot be odd number of character (e.g. count must be 4,6 8 etc.).

RFID Print Label Wizard		
Print Inform	nation	
Introduction Select Print Template Print Information Summary	Print Information Enter the number of labels to be in the tag and the data for the value Count: Pags code: Access code: Confirm access cgde: Kill code: Confirm kill code: Lock targets: Input for variable fields in the provident of the value TagData Taglatentifier	1 *
	Tagldentifier Text Variable	< Previous Next > Finish Cancel

 Click "Next" and the system will send the print data to printer and will display the status. Printer will print out 1 RFID Tag and the dialogs will display "Success" with the "Tag ID" (TagIdentifier number)

RFID Print Label Wizard								
Summary								
Introduction Select Print Template Print Information Summary	Summary The status of the print request is of Label <u>s</u> tatus: Tag ID 0001	displayed below. Status Success						
	Total Labels issued : 1		Notifications received: 1					
		< Previous	<u>F</u>inish Cancel					

