

Customizing RMS Receipt

Introduction:

Microsoft RMS receipts can be customized easily according to the end users need. The receipt templates are saved as XML files in "C:\Program Files\Microsoft Retail Management System\Store Operations\ReceiptTemplates" location. The content and design of receipts can be modified as per the need, by either modifying the existing XML file or creating new XML templates.

Receipt Templates:

Receipt templates provide multiple receipt formats grouped by transaction type. Such as sales transaction, canceled transaction, payment transaction etc. Each register can have 2 receipt templates for 2 receipt printers. Receipt templates provide preview option and are easily customizable.

The receipt templates are saved in the database as XML string. The templates are processed in a 2 step manner.

1. Compile pass :
Store operations manager takes the receipt template and processes the conditional clause, variables and loops and generates a receipt string in XML to be rendered.
2. Rendering pass :
It takes the output of compile pass and prints it to OPOS or windows printer by processing the design \ layout nodes of receipt template.

Receipt Template Language:

Receipt template consists of receipt template legend, receipt template XML elements and receipt template variables.

1. Receipt template legend:
This includes numeric expression, string expression, Boolean expression, color and alignment string.
2. Receipt template XML elements:
These elements define the structure of receipt template and are of the following types.
 - I. Conditional elements – determines which element in the receipt template are rendered. (<IF>)
 - II. Graphical elements – determines the design format of receipt. (<TABLE>, <ROW>, <COLUMNHEADER> , <LINE> etc)
 - III. Header elements – determines the information used in the entire receipt (<DOCUMENT>, , <OPOS> etc)
 - IV. Procedural elements - determines programmatic functionality such as procedures, loops (<CALL>, <FOR>)
3. Receipt template variables:
These are pre defined set of variables. They can be manager variable or POS variable. Some examples of POS variables are "Entry.Description",

"Configuration.StoreName" and "Cashier.Name" etc. These variables will provide information according to the current transaction in POS.

The screenshot shows the 'Receipt Properties' configuration window. On the left, there is a table of attributes and their values. On the right, there is a preview of a sales receipt for 'Tailsip Toys'.

Attribute	Value
Print to Receipt (DPOS)	True
Print to Journal (DPOS)	True
Print to Slip (DPOS)	False
Show Header Logo	False
Show Footer Logo	False
Show Store Name/Address	True
Show Customer Address	True
Show Total Discounts	True
Show Line Discounts	True
Show Tax Details	True
Show VAT	True
Show FullVAT	True
Show Customer Account Balance	True
Show C.C. Signature	True
CC Paper Cut Percent (DPOS)	75
Show Barcode	False
Show Duplicate At Top	False
Show Duplicate At Bottom	False
Mask Credit Card Number	True
Footer Line 1	"Thank you for shopping"
Footer Line 2	
Footer Line 3	"We hope you'll come back soon"
Footer Line 4	
Footer Line 5	
Logo Filename (Header)	
Logo Filename (Footer)	
Font "Default" Name	"Arial"
Font "Default" Size	9
Font "Default" Bold	False
Font "Default" Underline	False
Font "Default" Italic	False
Font "Default" Color	vbBlack
Font "Default" Cpl	44
Font "Small" Name	"Arial"
Font "Small" Size	7
Font "Small" Bold	False
Font "Small" Underline	False
Font "Small" Italic	False
Font "Small" Color	vbBlack
Font "Small" Cpl	44
Font "Large" Name	"Arial"
Font "Large" Size	12

The preview shows a receipt for 'Tailsip Toys' at 2934 N. Main Street, Woodinville, WA 98063. The receipt is titled 'Sales Receipt' and includes the following information:

- Transaction #: 123456
- Account #: 0000001
- Date: 8/1/2010 Time: 3:42:10 PM
- Cashier: 1 Register #: 1
- ACCOUNT: 0000001
- BILL TO: Gregory Weber, 9392 Ninth Ave, Redmond, WA 98053
- SHIP TO: Gregory Weber, 9392 Ninth Ave, Redmond, WA 98053
- Reference: 987654321
- Sample Comment

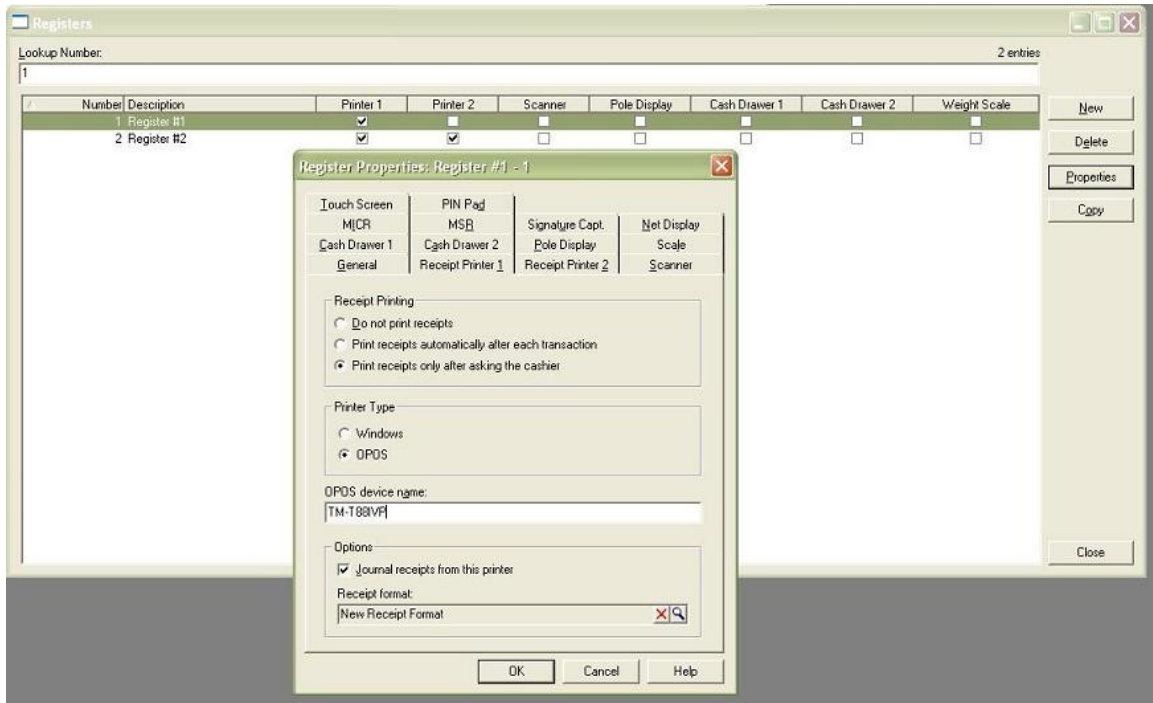
Item	Description	Amount
11200	R/C Slider	\$148.00
11212	R/C Train	\$94.00
16001	Boys 15" Bkx	\$79.00
16100	Football	\$9.00
0/C	0/C Card	\$0.00
Sub Total		\$330.00
State Tax		\$18.20
County Tax		\$0.84
Total		\$349.00
Cash Tended		\$375.00
Change Cash		\$26.00

Thank you for shopping
We hope you'll come back soon!

Fig: Shows a sample receipt template preview.

Configure Receipt Printer:

In the store operations manager under database menu, we have registers->register list menu. The receipt format can be set to 2 available receipt printers. The receipts can be printed in OPOS or windows printer. We can set the printer type, printing options, device name in the register properties.



We can use the existing templates as a base for customizing receipt template as per user need. Or else we can create new XML file. Another option is to generate the receipt string using OPOS commands and sending to the OPOS printer to be printed.