



QNE OPTIMUM KNOWLEDGE BASE

Title: How to mask the credit card number to show only last four digits in a report.

User Scenario:

1. Issue a Point Of Sales transaction and payment is made via a credit card. The credit card number is entered into the transaction.

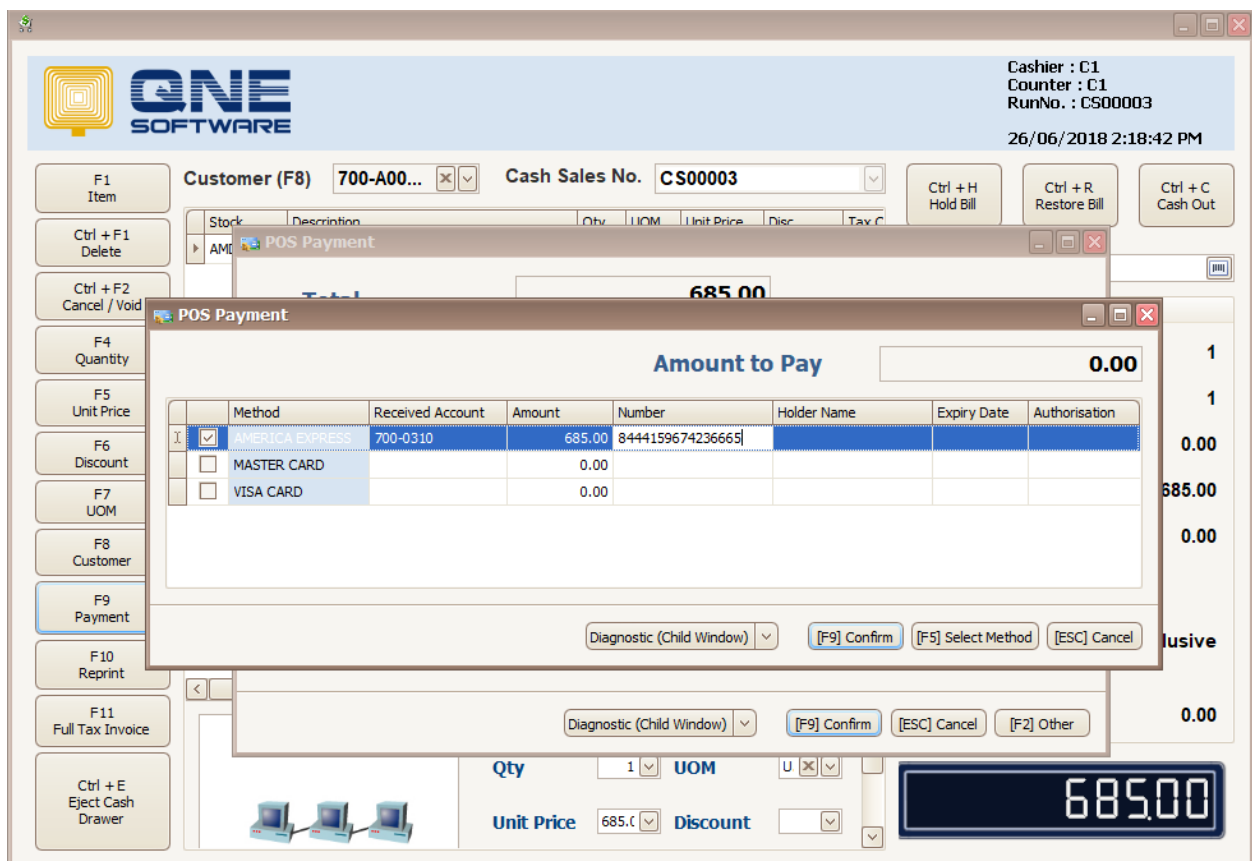


Image 1 – POS Payment

2. Preview a receipt / invoice, the credit card information is required to only display the last four digit and the others digit are replaced with the * symbol. The final output is shown in Image 2 below.



SAMPLE TRADING (M) SDN. BHD.
Reg No : 123456-A (603) 9133 8888
2018-06-26 02:19 PM
No : CS00002

Credit Card: *****6665

Item	Qty	Total(RM)
AMD XP 1800	1	685.00
Taxable Amount		685.00
5% GST		0.00
Subtotal		685.00
Other		685.00
Change		0.00

Goods sold are not refundable
Thank You, Please come again!

Image 2 – POS Receipt

Customization Steps:

1. From the QNE Optimum’s report designer, add a calculated field into the report’s data source. In this example, since the [Number] column that stored the credit card number is located under POSCashSales > Payment > POSPayment Details Collection, so the calculated field will be added here as well.

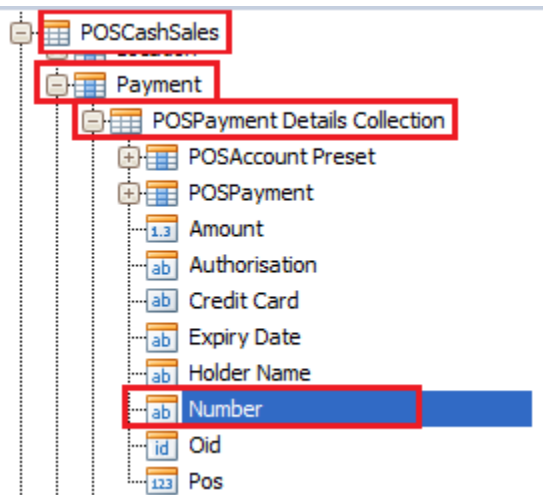


Image 3 – The binding field that holding the credit card number



2. Add a calculated field as below:

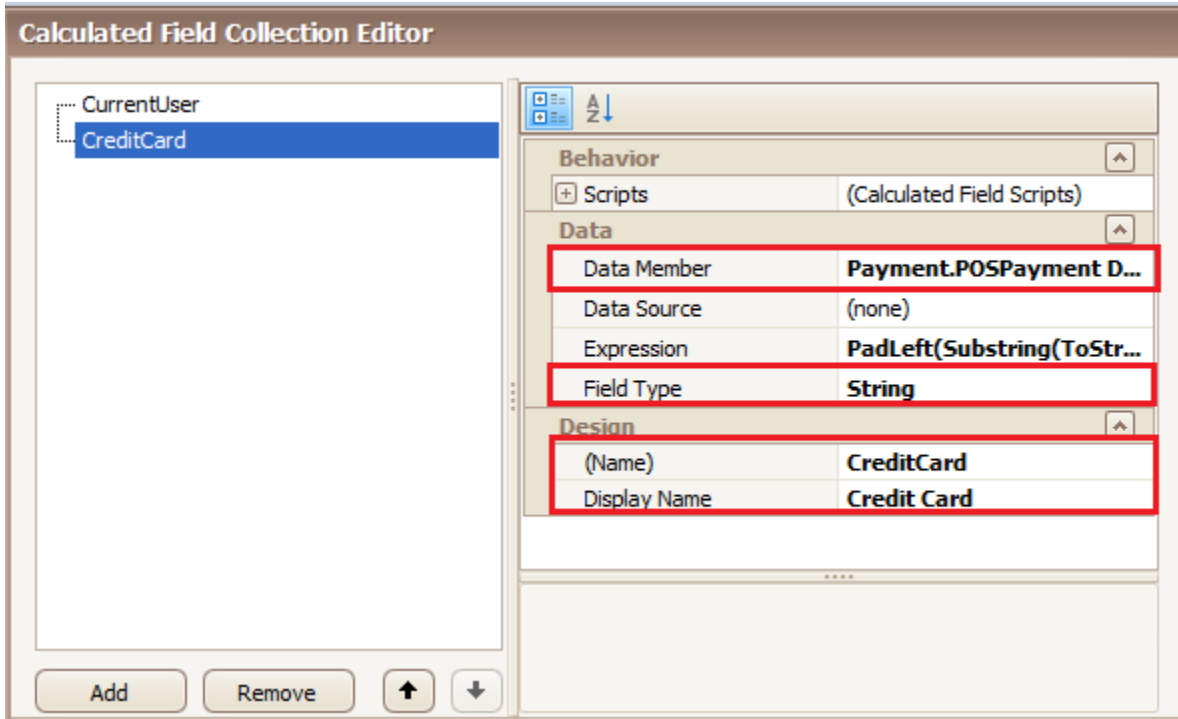


Image 4 – Add calculated field

Data Member: Payment.POSPayment Details Collection

Field Type: String

Name: CreditCard

Display Name: Credit Card

Expression: `PadLeft(Substring(ToStr([POSPayment].[POSPayment Details Collection].[Number]), Len([POSPayment].[POSPayment Details Collection].[Number])-4), Len([POSPayment].[POSPayment Details Collection].[Number]), '*')`

Expression Syntax:

1.
`PadLeft(String, Length, Char)`

Left-aligns characters in the defined **String**, padding its left side with the specified **Char** up to a specified total **Length**.

2.
`Substring(String, StartPosition)`

Retrieves a substring from **String**. The substring starts at **StartPosition**.



QNE SOFTWARE SDN. BHD. (611852-V)

Result:

Before Customization	After Customization																																										
<p>SAMPLE TRADING (M) SDN. BHD. Reg No : 123456-A (603) 9133 8888 2018-06-26 03:15 PM No : CS00002 Credit Card: 8444159674236665</p> <table border="1"><thead><tr><th>Item</th><th>Qty</th><th>Total(RM)</th></tr></thead><tbody><tr><td>AMD XP 1800</td><td>1</td><td>685.00</td></tr><tr><td>Taxable Amount</td><td></td><td>685.00</td></tr><tr><td>5% GST</td><td></td><td>0.00</td></tr><tr><td>Subtotal</td><td></td><td>685.00</td></tr><tr><td>Other</td><td></td><td>685.00</td></tr><tr><td>Change</td><td></td><td>0.00</td></tr></tbody></table> <p>Goods sold are not refundable Thank You, Please come again!</p>	Item	Qty	Total(RM)	AMD XP 1800	1	685.00	Taxable Amount		685.00	5% GST		0.00	Subtotal		685.00	Other		685.00	Change		0.00	<p>SAMPLE TRADING (M) SDN. BHD. Reg No : 123456-A (603) 9133 8888 2018-06-26 03:14 PM No : CS00002 Credit Card: *****6665</p> <table border="1"><thead><tr><th>Item</th><th>Qty</th><th>Total(RM)</th></tr></thead><tbody><tr><td>AMD XP 1800</td><td>1</td><td>685.00</td></tr><tr><td>Taxable Amount</td><td></td><td>685.00</td></tr><tr><td>5% GST</td><td></td><td>0.00</td></tr><tr><td>Subtotal</td><td></td><td>685.00</td></tr><tr><td>Other</td><td></td><td>685.00</td></tr><tr><td>Change</td><td></td><td>0.00</td></tr></tbody></table> <p>Goods sold are not refundable Thank You, Please come again!</p>	Item	Qty	Total(RM)	AMD XP 1800	1	685.00	Taxable Amount		685.00	5% GST		0.00	Subtotal		685.00	Other		685.00	Change		0.00
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