Credit Line Account Tool

This tool allows you to calculate the balance of a credit line type account at any date based on a transactions list.

Transaction List Transaction editor Account Balance Calculation

Date	Value	Type	Account Balance To Date
Oct 31, 2012	+500.00	Cash	Date Jul 31, 2013 Today
Nov 30, 2012	+800.00	Cash	
Dec 31, 2012	+1,500.00	Cash	BAL.. -1,130.45
Jan 01, 2013	+4.00%	Int.180	
Jan 15, 2013	-500.00	Cash	Interest Mode
Mar 15, 2013	+3,000.00	Cash	Edit/Add Trx. Compound
Jun 30, 2013	+2,500.00	Cash	Delete Trx. Show Table
Jul 31, 2013	+2,266.60	Cash	

Credit Line Account

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There are three types of transactions. "Cash-In" transaction for amounts received (positive), "Cash-Out" transactions for amounts payed (negative) and "Interest" transactions to specify the interest rate to apply to the balance from the "Interest transaction" date.

Once the transactions are entered, the balance of the account can be calculated at any date and all the account schedule can be displayed in an "Account Balance Table" showing the initial balance, the interest accrued since last transaction, the amount paid or received and the end of the day balance.

Account Balance to Date Buttons	
Date	Inputs the displayed number as a date in the current calculator date setting (M.DY or D.MY formats) to calculate the end of the day Balance of the account at this date.
Today	Inputs the current iPad's date to calculate de account balance for today.
BAL.	Calculates the account balance according to the transactions list and the date input..
Edit/Add Trx.	Shows the "Transaction Editor" view to add or edit the transaction information (see Transaction Editor Buttons below).
Delete Trx.	Remove the selected transaction from the list.
Compound Simple	Toggle to set how the interest will be applied to the end of the day balance from transaction to transaction: Compound: $AC_i = B_{i-1} * [(1 + i\%)^n - 1]$; Simple: $AC_i = B_{i-1} \cdot (i\% \cdot n)$; where : AC_i = Interest accrued since the previous transaction. B_{i-1} = End of the day balance of the previous transaction. $i\%$ = Daily interest rate to apply to the current transaction. n = Number of days elapsed since the previous transaction.
Show Table	Calculates and display the "Account Balance Table" showing all the account transactions with the initial balance, the previous balance accrued interest, the cash movement and the end of the day balance.

Transaction Editor Buttons	
Date	Inputs the displayed number as a date in the current calculator date setting (M.DY or D.MY formats).
Today	Inputs the current iPad's date.
Int.(%)	Set the transaction type to "Interest" rate.
($) In	Set the transaction type to "Cash-In", positive value.

Transaction Editor Buttons	
($) Out	Set the transaction type to "Cash-Out" negative value.
Value	Input the displayed number as transaction value.
#Days	For "Interest" transactions, inputs the displayed number as the interest rate base number of days (#Days). So the daily interest rate to apply to the balance of next transactions is: "Compound" mode: $id = (1 + i\% / 100)^{1/\#Days} - 1$; "Simple" mode: $id = i\% / \#Days / 100$; where : **id** = Daily interest rate to apply to the next transactions. **i%** = Interest value entered in percent.
Update	If a transaction is selected in the transaction list, updates the selected transaction with the supplied data.
Add	Add a new transaction to the list with the current supplied data.
Done	Close the Editor and get back to the "Credit Line Account" view.

Toolbar Buttons Actions	
⬅	Close the view and get back to the Options Selection Menu. If the Account Table is shown then gets back to the Credit Line Account view
?	Shows the Help View with the Credit Line Account topic selected.
📄	Pop up the Action Menu for the Credit Line Account View (see "Toolbar Actions Menu" below).
⚙	Shows the "General Settings" view to customize the RLM-12 Finance Center application.

Toolbar Actions Menu	
Load File	Show the file dialog to load a previously saved data file.
Save File	Show the file dialog to save the current data in a file.
Copy data	Copy the transactions data list.
Paste Data	Paste a previously copied transactions data list
Email Account	Build an email with the transactions data and account balance information.
Clear Values	Set the date to today and clears to zero the current balance value.
Reset Data	Delete all the transactions, set the date to today and clear to zero the current balance value.
Cancel	Close the actions menu.

Example:

Your brother ask you to support his new entrepreneur adventure with a family loan of $10,000 to be drawn in March 25, 2011. He offers you a compounding interest rate of 10% per year (360 days) and he promise to paid you according the following schedule:

Jun-20, 2011: $1000.
Aug-14, 2011: $2000.
Jan-23, 2012: $3000.
Jul-17, 2012: $4000.

The Time has past and your brother wants to set the debt today (September 18th, 2012), how much he owns you if he has paid as planned?

Solution:

First expand the RLM-12 Finance Center to show the "Options Selection Menu" and select the "Credit Line Account" option. Then follow the next sequence:

Keystroke	Description
Touch 📄	Display the Actions Menu.
Touch "**Reset Data**"	Confirm to clear all the data.
Edit/Add Trx.	Shows the "Transaction Editor" view to begin entering data.
Type "**3.252011**" & Touch Date	Type the initial date (M.DY format assumed) and press "Date" to enter the initial date (if D.MY is set, type 25.032011).
Touch Int.(%)	Set the transaction type to "Interest".
Type "**10**" & Touch Value	Type the interest rate and touch "Value" to enter the rate.
Type "**360**" & Touch #Days	Enter the number of days for the interest rate.
Add	Enters the interest rate transaction.
Type "**10000**" & Touch Value	Type the loan amount and touch "Value" to enter it.
Touch ($) Out	Set the transaction type to "Cash Out" (negative).
Add	Enters the Loan amount transaction.
Type "**6.202011**" & Touch Date	Type the first payment date (M.DY format assumed) and press "date" to enter it (if D.MY is set, type 20.062011).
Type "**1000**" & Touch Value	Type the payment amount and touch "Value" to enter it. Automatically is set to "Cash In" because the number is positive.
Add	Enters the payment transaction.
Type "**8.142011**" & Touch Date	Type the second payment date (M.DY format assumed) and press "date" to enter it (if D.MY is set, type 14.082011).

Keystroke	Description
Type "**2000**" & Touch `Value`	Type the payment amount and touch "Value" to enter it. Automatically is set to "Cash In" because the number is positive.
`Add`	Enters the payment transaction.
Type "**1.232012**" & Touch `Date`	Type the third payment date (M.DY format assumed) and press "date" to enter it (if D.MY is set, type 23.012012).
Type "**3000**" & Touch `Value`	Type the payment amount and touch "Value" to enter it. Automatically is set to "Cash In" because the number is positive.
`Add`	Enters the payment transaction.
Type "**7.172012**" & Touch `Date`	Type the fourth payment date (M.DY format assumed) and press "date" to enter it (if D.MY is set, type 17.072012).
Type "**4000**" & Touch `Value`	Type the payment amount and touch "Value" to enter it. Automatically is set to "Cash In" because the number is positive.
`Add`	Enters the payment transaction.
`Done`	Close the Editor and get back to the "Credit Line Account" view.
Type "**9.182012**" & Touch `Date`	Type the date to calculate the balance at the closing day (M.DY format assumed) and press "date" to enter it (if D.MY is set, type 18.092012).
`BAL.`	Calculates the account balance at Sep-18,2012. Your brother should pay you **$930.5** in **Sep-18,2012**.

If the interest rate is Simple, touch `Compound` to set it to `Simple` ,

Then, touch `BAL.` to recalculate the new balance. The result is: your brother should pay you **$962.15** to finish the loan in **Sep-18,2012**.