



# SMART FINANCIAL REPORT

*[2012] Developed for ADempiere by*



*[2015] Migrated to iDempiere v2.1 by  
Freddy Heredia*

*[2019] Migrated to iDempiere v6.2+ by  
Peter Shepetko*



*[2019] Sponsor  
StabilisOne LTD*





## TABLE OF CONTENTS

|  |    |
|--|----|
| 1 Background.....                              | 3  |
| 2 Setup.....                                   | 3  |
| 2.1 Download and Install plugin.....           | 3  |
| 3 Smart Financial Report functionality.....    | 4  |
| 3.1 Overview.....                              | 4  |
| 3.2 Financial Report Header.....               | 4  |
| 3.3 New Line Type: Custom Line.....            | 6  |
| 3.4 New Line Type: Tabular Text.....           | 6  |
| 3.5 Advanced calculation.....                  | 7  |
| 3.5.1 Fixed Percentage for Operand1.....       | 7  |
| 3.5.2 Divide Operand1 and Operand2.....        | 7  |
| 3.5.3 Divide Operand 1 and Fixed Number.....   | 8  |
| 3.5.4 Multiple Operand1 and Operand2.....      | 8  |
| 3.5.5 Multiple Operand 1 and Fixed Number..... | 9  |
| 3.5.6 Calculation result.....                  | 9  |
| 3.6 Export the financial report to Excel.....  | 10 |
| 4 Project Protocol.....                        | 11 |
| 4.1.1 Project Version.....                     | 11 |
| 4.1.2 Source Repository.....                   | 11 |
| 4.1.3 Tickets.....                             | 11 |
| 4.1.4 Project Forum for Support.....           | 11 |
| 4.1.5 Contact.....                             | 11 |



# 1 Background

Smart Financial Report plugin developed by Smart JSP company for ADempiere 3.6 [2012] and migrated by Freddy Heredia to iDempiere 2.1 [2015].

We migrated it to version iDempiere 4.1+ because need this functionality for Polish Accounting.

# 2 Setup

## 2.1 Download and Install plugin

You can download the Smart Financial Report plugin for immediate use in your latest iDempiere from <https://bitbucket.org/pshepetko/org.idempiere.sfinreport/downloads/>

In Apache Felix Web Console: 1) Install plugin 2) Select file 3) Install and Update

Apache Felix Web Console Bundles

OSGi Web Console Log out

Bundle information: 338 bundles in total, 62 bundles active, 20 active fragments, 214 bundles resolved, 1 bundles installed

| Id  | Name  | Version | Category | Status   | Actions |
|-----|---|---------|----------|----------|---------|
| 0   | OSGi System Bundle (org.eclipse.osgi)   |         |          |          |         |
| 94  | activemq-core (org.apache.activemq.activemq-core)                                   |         |          |          |         |
| 241 | alpn-api (org.eclipse.jetty.alpn.api)   |         |          |          |         |
| 189 | Ant Build Tool Core (org.eclipse.ant.core)  |         |          |          |         |
| 92  | ANTLR 4 Runtime (org.antlr.runtime)   |         |          |          |         |
| 93  | Aopalliance Plug-in (org.aopalliance)   |         |          |          |         |
| 96  | Apache Ant (org.apache.ant)   |         |          |          |         |
| 156 | Apache Apache HttpClient OSGi bundle (org.apache.httpcomponents.httpclient)         |         |          |          |         |
| 97  | Apache Aries SPI Fly Dynamic Weaving Bundle (org.apache.aries.spify.dynamic.bundle) | 1.2.0   |          | Active   |         |
| 98  | Apache Aries Util (org.apache.aries.util)   | 1.1.3   |          | Resolved |         |

As result must be Status=Active

## Apache Felix Web Console Bundles



OSGi Web Console Log out

Bundle information: 339 bundles in total, 65 bundles active, 20 active fragments, 214 bundles resolved, 1 bundles installed

| Id  | Name                                       | Version            | Category | Status | Actions |
|-----|--|--------------------|----------|--------|---------|
| 338 | Smart FinReport (org.idempiere.sfinreport) | 6.2.0.201908142000 |          | Active |         |

Bundle information: 339 bundles in total, 65 bundles active, 20 active fragments, 214 bundles resolved, 1 bundles installed

After that you can use this functionality.



### 3 Smart Financial Report functionality

#### 3.1 Overview

This functionality are for a better visualization and report format of the Financial Reports in iDempiere.

#### 3.2 Financial Report Header

- **Name of the Report:** *Take the entered in the field name of the financial report - option*
- **Report Period:** Financial Report period

*Two fields created*

- **Prefix Text for period:** Corresponds to the text that is required before the Period, example: To ..., Since ..., Period included between ...
- **Suffix Text for period:** Corresponds to the text that is required to complete the Period, example: as of Dec. 31, 2011

The screenshot displays the 'Financial Report' configuration window in the iDempiere application. The window title is 'Financial Report: Balance S...' and 'Report: Balance Sheet Curre...'. The interface includes a search bar, navigation icons, and a 'Data requested' section. The main configuration area contains several fields and checkboxes:

- Client:** GardenWorld
- Organization:** HQ
- Accounting Schema:** GardenWorld US/A/US Dollar
- Calendar:** GardenWorld Calendar
- Name:** Balance Sheet Current Month
- Description:** (empty text field)
- Active:**
- Report Line Set:** Balance Sheet
- Report Column Set:** Actual Current Month
- Report Cube:** (empty dropdown)
- Jasper Process:** (empty dropdown)
- List Sources:**
- Include source accounts with no transaction:**
- List Transactions:**
- Prefix Text for Period:** Prefix-
- Suffix Text for Period:** -Suffix

At the bottom, there is an 'Action' section with two buttons: 'Create Report' and 'Print Format' (Balance Sheet Current Month).



Head of report example:

- Company Name
- City
- Identification Number
- Chart of Accounting Scheme:
- Currency

**iDempiere**  
Open Source ERP System

**BALANCE SHEET CURRENT MONTH**  
*PREFIX- NOV-18 -SUFFIX*  
*US Dollar*

| NAME  | DESCRIPTION                   | BEGIN TOTAL BALANCE | BEGIN YEAR BALANCE | PERIOD ACTIVITY | PERIOD QUANTITY | END YEAR BALANCE | END TOTAL BALANCE |
|-------|-------------------------------|---------------------|--------------------|-----------------|-----------------|------------------|-------------------|
| 1     | Assets                        |                     |                    |                 |                 |                  |                   |
| 11    | Cash                          |                     | 148,00             |                 |                 | 148,35           | 148,35            |
| 11100 | Checking Account              |                     | 148,00             |                 |                 | 148,00           | 148,00            |
| 11110 | Checking In-Transfer          |                     | 50,00              |                 |                 | 50,00            | 50,00             |
| 11130 | Checking Unallocated Receipts |                     | -50,00             |                 |                 | -50,00           | -50,00            |



### 3.3 New Line Type: Custom Line

**Customized Line:** By checking this option the system displays the report line combo in which it is you can select:

The screenshot shows a form with the following fields and values:

- Line Type: Customized Line
- Report Line: (empty)
- Fixed Percentage: (dropdown menu open with options: Blank Line, Centered Title, Doble Line for Total, Line, Total Line, Underlined Descriptions)

- **Blank Line:** Leave a full blank line used as a spacer
- **Centered Title:** This will appear after column headings in Bold Centered
- **Double line for Total:** Generates double line below the amount of total that is in the column
- **Line:** generates line in the whole line, that is, all the columns
- **Total Line:** Line below the total amount that is in the column
- **Underlined Description:** Add an underline to the description column

### 3.4 New Line Type: Tabular Text

**Tabulated text:** To indicate spaces to leave a title from left to right, you should take into account no leave the width of the sheet

This applies to securities, but no type of calculation or segment value can be performed on it. It's a tab

The screenshot shows a software interface with the following fields and values:

- Client: GardenWorld
- Organization: HQ
- Report Line Set: Balance Sheet
- Name: tt
- Description: Tabulated text
- Active:
- Printed:
- Sequence: 262
- Line Type: Tabbed Text
- smj\_HierarchyLevel: 9



### 3.5 Advanced calculation

Added **Divide (Op1/Op2)**, **Multiple (Op1\*Op2)** and **Fixed Percentage/Number** calculation.

#### 3.5.1 Fixed Percentage for Operand1

- field Calculation = Percentage (Op1 of Op2)
- field Operand1 > 0
- field Operand2 is empty
- field Fixed Percentage/Number > 0

The screenshot shows a web application interface for configuring a 'Report Line Set'. The title bar indicates 'Report Line Set: Income Sta...'. The form is for 'Client: GardenWorld' and 'Organization: HQ'. The 'Report Line Set' is 'Income Statement' and the 'Name' is 'demo1'. The 'Description' is 'Percentage (Op1 of Op2)'. The 'Active' checkbox is checked, and the 'Printed' checkbox is also checked. The 'Sequence' is 478. The 'Line Type' is 'Calculation'. The 'Calculation' is 'Percentage (Op1 of Op2)'. The 'Operand 1' is 4. The 'Operand 2' is empty. The 'Fixed Percentage/Number' is 5.0.

#### 3.5.2 Divide Operand1 and Operand2

- field Calculation = Divide (Op1 of Op2)
- field Operand1 > 0
- field Operand2 > 0
- field Fixed Percentage/Number = 0

The screenshot shows a web application interface for configuring a 'Report Line Set'. The title bar indicates 'Report Line Set: Income Sta...'. The form is for 'Client: GardenWorld' and 'Organization: HQ'. The 'Report Line Set' is 'Income Statement' and the 'Name' is 'demo2'. The 'Description' is 'Divide (Op1/Op2)'. The 'Active' checkbox is checked, and the 'Printed' checkbox is also checked. The 'Sequence' is 467. The 'Line Type' is 'Calculation'. The 'Calculation' is 'Divide (Op1/Op2)'. The 'Operand 1' is 4. The 'Operand 2' is 5. The 'Fixed Percentage/Number' is 0.0.



### 3.5.3 Divide Operand 1 and Fixed Number

- field Calculation = Divide (Op1 of Op2)
- field Operand1 > 0
- field Operand2 is empty
- field Fixed Percentage/Number >0

The screenshot shows a web application interface for configuring a 'Report Line Set'. The form is titled 'Report Line Set: Income Sta...' and is for 'Client: GardenWorld' and 'Organization: HQ'. The 'Report Line Set' is 'Income Statement'. The 'Name' is 'demo3' and the 'Description' is 'Divide (Op1/Op2)'. The 'Active' checkbox is checked, and the 'Printed' checkbox is also checked. The 'Sequence' is 498. The 'Line Type' is 'Calculation'. The 'Calculation' is 'Divide (Op1/Op2)'. The 'Operand 1' is 4 and 'Operand 2' is empty. The 'Fixed Percentage/Number' is 0.8.

### 3.5.4 Multiple Operand1 and Operand2

- field Calculation = Multiple (Op1 of Op2)
- field Operand1 > 0
- field Operand2 > 0
- field Fixed Percentage/Number = 0

The screenshot shows a web application interface for configuring a 'Report Line Set'. The form is titled 'Report Line Set: Income Sta...' and is for 'Client: GardenWorld' and 'Organization: HQ'. The 'Report Line Set' is 'Income Statement'. The 'Name' is 'demo4' and the 'Description' is 'Multiple (Op1\*Op2)'. The 'Active' checkbox is checked, and the 'Printed' checkbox is also checked. The 'Sequence' is 508. The 'Line Type' is 'Calculation'. The 'Calculation' is 'Multiple (Op1\*Op2)'. The 'Operand 1' is 4 and 'Operand 2' is 5. The 'Fixed Percentage/Number' is 0.0.





### 3.5.5 Multiple Operand 1 and Fixed Number

- field Calculation = Multiple (Op1 of Op2)
- field Operand1 > 0
- field Operand2 is empty
- field Fixed Percentage/Number >0

Home Financial Report: Balance S... Report Line Set: Income Sta... 45/45

Report Line Set > Report Line

Record saved

Client: GardenWorld Organization: HQ

Report Line Set: Income Statement

Name: demo5

Description: Multiple (Op1\*Op2)

Active  Printed

Sequence: 518

Line Type: Calculation

Calculation: Multiple (Op1\*Op2)

Operand 1: 4 Operand 2:

Fixed Percentage/Number: 0.8

### 3.5.6 Calculation result

| Name  | Description                              | Begin Total Balance | Begin Year Balance | Begin Year Balance of 1 | Period Activity | Period Quantity | End Year Balance | End Total Balance |
|-------|--|---------------------|--------------------|-------------------------|-----------------|-----------------|------------------|-------------------|
| 4     | Sales                                    | 304.50              |                    |                         |                 |                 |                  | 304.50            |
| 49    | Sales Discounts                          | 10.00               |                    |                         |                 |                 |                  | 10.00             |
| 5     | Cost of Goods Sold                       | 799.29              |                    |                         |                 |                 |                  | 799.29            |
| 55    | Interest                                 |                     |                    |                         |                 |                 |                  |                   |
| 56    | Inventory Co-Op                          |                     |                    |                         |                 |                 |                  |                   |
| 58    | Co-Op Maintenance                        |                     |                    |                         |                 |                 |                  |                   |
| 5_    | Gross Margin                             | 19,356.08           |                    |                         |                 |                 |                  | 19,356.08         |
| 5_1   | Formula 1: [5_Gross Margin*0.8]          | 24,195.10           | 0.00               | 0.00                    | 0.00            | 0.00            | 0.00             | 24,195.10         |
| 5_2   | Formula 2: [5_Gross Margin*0.8]*4 Sales  | 7,367,407.95        |                    |                         |                 |                 |                  | 7,367,407.95      |
| 59    | Co-Op Discounts                          | 1.79                |                    |                         |                 |                 |                  | 1.79              |
| 60    | Program Expenses                         |                     |                    |                         |                 |                 |                  |                   |
| 61    | Occupancy Cost                           |                     |                    |                         |                 |                 |                  |                   |
| 77    | Repairs & Maintenance                    |                     |                    |                         |                 |                 |                  |                   |
| 78    | Other Operating Expenses                 | 0.28                |                    |                         |                 |                 |                  | 0.28              |
| 79    | Initial Operating Expenses               | 10.25               |                    |                         |                 |                 |                  | 10.25             |
| 79_   | Total Operating Expenses                 | 19,356.08           |                    |                         |                 |                 |                  | 19,356.08         |
| 79__  | Operating Income                         | 19,356.08           |                    |                         |                 |                 |                  | 19,356.08         |
| 80    | Other Income                             |                     |                    |                         |                 |                 |                  |                   |
| 805   | Occupancy Gain                           |                     |                    |                         |                 |                 |                  |                   |
| 82    | Other Expenses                           | 0.25                |                    |                         |                 |                 |                  | 0.25              |
| 825   | Occupancy Loss                           |                     |                    |                         |                 |                 |                  |                   |
| 82_   | Net Income before Tax                    | 19,356.08           |                    |                         |                 |                 |                  | 19,356.08         |
| 89    | Income Tax & Summary                     |                     |                    |                         |                 |                 |                  |                   |
| 89_   | Net Income                               | 15,225              |                    |                         |                 |                 |                  | 15,225            |
| demo1 | Percentage (Fixed Percentage=5%from Op1) |                     | 0.00               | 0.00                    | 0.00            | 0.00            | 0.00             | 0.00              |
| demo2 | Formula (Op1/Op2)                        | 0.380963104755      |                    |                         |                 |                 |                  | 0.380963104755    |
| demo3 | Formula (Op1/Fixed Number=0.8)           | 380.63              |                    |                         |                 |                 |                  | 380.63            |
| demo4 | Multiple (Op1*Op2)                       | 243,383.805         |                    |                         |                 |                 |                  | 243,383.805       |
| demo5 | Multiple (Op1*Fixed Number=0.8)          | 304.50              |                    |                         |                 |                 |                  | 304.50            |



### 3.6 Export the financial report to Excel

The presentation of the financial statements was improved by exporting them to Excel in such a way that they are a copy.

|    | A           | B   | C                                  | D                         | E                      | F                      | G                       | H                        |
|----|-------------|---|------------------------------------|---------------------------|------------------------|------------------------|-------------------------|--------------------------|
| 1  |             |   | <b>Balance Sheet Current Month</b> |                           |                        |                        |                         |                          |
| 2  |             |   |                                    |                           |                        |                        |                         |                          |
| 3  |             |   |                                    |                           |                        |                        |                         |                          |
| 4  |             |   |                                    |                           |                        |                        |                         |                          |
| 5  |             |   | <b>Aug-19</b>                      |                           |                        |                        |                         |                          |
| 6  |             |   | <b>US Dollar</b>                   |                           |                        |                        |                         |                          |
| 7  |             |   |                                    |                           |                        |                        |                         |                          |
| 8  | <u>NAME</u> | <u>DESCRIPTION</u>                                | <u>BEGIN TOTAL BALANCE</u>         | <u>BEGIN YEAR BALANCE</u> | <u>PERIOD ACTIVITY</u> | <u>PERIOD QUANTITY</u> | <u>END YEAR BALANCE</u> | <u>END TOTAL BALANCE</u> |
| 9  | 1           | <u>Assets</u>                                     |                                    |                           |                        |                        |                         |                          |
| 10 | 11          | Cash  | 148,35                             |                           |                        |                        |                         | 148,35                   |
| 11 | 12          | Accounts Receivable                               | 408,12                             |                           |                        |                        |                         | 408,12                   |
| 12 | 13          | Investments                                       |                                    |                           |                        |                        |                         |                          |
| 13 | 14          | Inventory   | 8 311,50                           |                           |                        |                        |                         | 8 311,50                 |
| 14 | 15          | Prepaid Expenses, Deposits & Other Current Assets |                                    |                           |                        |                        |                         |                          |
| 15 | 15          | Total Current Assets                              | 8 867,97                           | 0,00                      | 0,00                   | 0,00                   | 0,00                    | 8 867,97                 |
| 16 | 16          | Land and Building                                 |                                    |                           |                        |                        |                         |                          |
| 17 | 17          | Furniture, Fixtures & Equipment                   |                                    |                           |                        |                        |                         |                          |
| 18 | 18          | Accumulated Depreciation                          |                                    |                           |                        |                        |                         |                          |
| 19 | 19          | Other Assets                                      |                                    |                           |                        |                        |                         |                          |
| 20 | 19          | Fixed and other Assets                            | 0,00                               | 0,00                      | 0,00                   | 0,00                   | 0,00                    | 0,00                     |
| 21 | 1           | Total Assets                                      | 8 867,97                           | 0,00                      | 0,00                   | 0,00                   | 0,00                    | 8 867,97                 |
| 22 | 2           | <u>Liabilities</u>                                |                                    |                           |                        |                        |                         |                          |
| 23 | 21          | Accounts Payable                                  | 9 373,54                           |                           |                        |                        |                         | 9 373,54                 |
| 24 | 22          | Accrued Expenses                                  |                                    |                           |                        |                        |                         |                          |
| 25 | 23          | Current Note Payables                             |                                    |                           |                        |                        |                         |                          |
| 26 | 24          | Long Term Liabilities                             |                                    |                           |                        |                        |                         |                          |
| 27 | 2           | Total Liabilities                                 | 9 373,54                           | 0,00                      | 0,00                   | 0,00                   | 0,00                    | 9 373,54                 |
| 28 | 3           | <u>Owner's Equity/Net Worth</u>                   |                                    |                           |                        |                        |                         |                          |
| 29 | 31          | Capital   |                                    |                           |                        |                        |                         |                          |
| 30 | 32          | Current Profit & Loss                             |                                    |                           |                        |                        |                         |                          |
| 31 | 33          | Total Liabilities and Equity                      | 9 373,54                           | 0,00                      | 0,00                   | 0,00                   | 0,00                    | 9 373,54                 |
| 32 |             |   |                                    |                           |                        |                        |                         |                          |

Exactly the file initially generated in pdf.



## **4 Project Protocol**

### **4.1.1 Project Version**

Smart Financial Report v6.2

### **4.1.2 Source Repository**

<https://bitbucket.org/pshepetko/org.idempiere.sfinreport/src/default/>

### **4.1.3 Tickets**

<https://bitbucket.org/pshepetko/org.idempiere.sfinreport/issues>

### **4.1.4 Project Forum for Support**

<https://groups.google.com/forum/#!forum/idempiere>

### **4.1.5 Contact**

pshepetko@gmail.com