



CASH FORECASTING

Developed by
Peter Shepetko



TABLE OF CONTENTS

1	Background.....	3
2	Install plugin.....	3
2.1	Download and Install plugin.....	3
3	Cash Forecasting Setting.....	4
3.1	Cash Forecasting Period Definition.....	4
3.1.1	Create periods.....	5
3.1.1.1	Monthly periods.....	5
3.1.1.2	Weekly periods.....	5
3.1.1.3	Daily periods.....	6
3.2	Creating Cash Forecast Templates.....	7
3.2.1	Creating Template Header.....	7
3.2.2	Creating Template Lines.....	7
4	Cash Forecasting functionality.....	8
4.1	Generating Cash Forecasts Records based Template.....	8
4.2	Cash Forecasting Window.....	9
4.3	Cash Forecasting Report.....	10
4.4	Cash Forecasting Reports from Oracle Cash Management for example.....	11
4.4.1	Usefull link.....	11
4.4.2	Report by Organizations.....	11
4.4.3	Report for Organization by Payment Rule.....	12
5	Easy OLAP Integration (Saiku BI).....	13
5.1	Install Saiku BI Community Edition.....	13
5.2	Add URL to System Configurator.....	13
5.3	Add Data Sources.....	13
5.4	Add Schema.....	13
5.5	Create and Save Cube.....	14
5.6	Cash Forecasting OLAP view.....	16
6	Project Protocol.....	17
6.1.1	Project Version.....	17
6.1.2	Source Repository.....	17
6.1.3	Project Forum for Support.....	17
6.1.4	Contact.....	17



1 Background

Cash Forecasting Plugin is a planning tool that helps you anticipate the flow of cash in and out of your business, allowing you to project your cash needs and evaluate your company's liquidity position.

P.S. This is a Alfa version for testing and proposals.

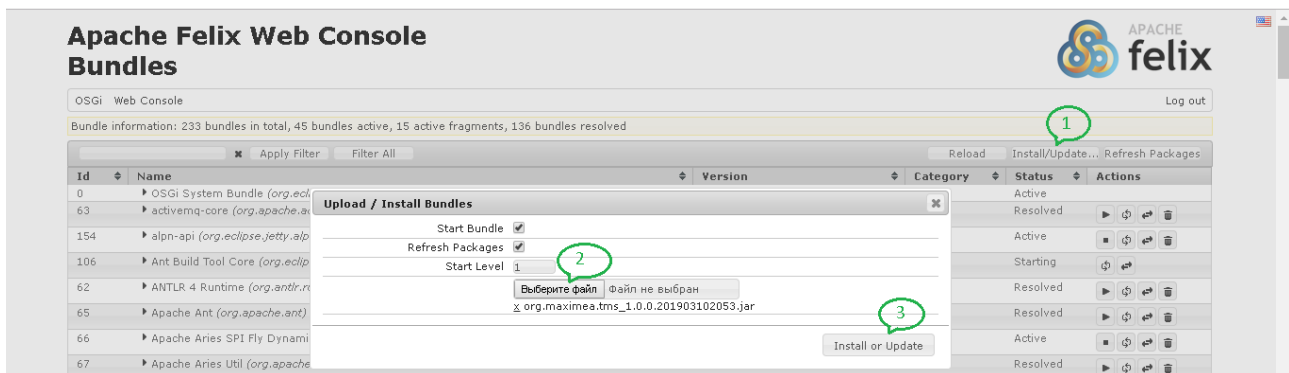
Some functions is not flexible and only for testing and improvement.

2 Install plugin

2.1 Download and Install plugin

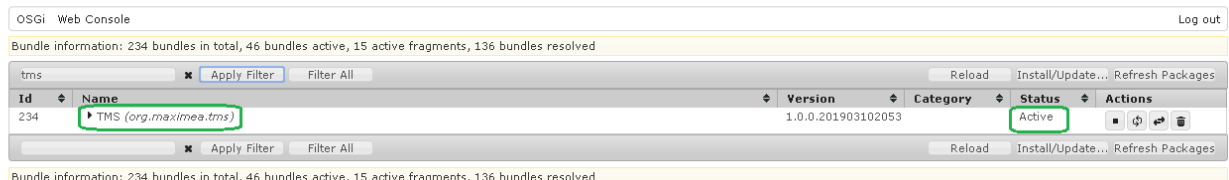
You can download the CashForecasting plugin for immediate use in your latest iDempiere from <https://bitbucket.org/pshepetko/org.idempiere.cashforecasting/downloads/>

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



As result must be Status=Active

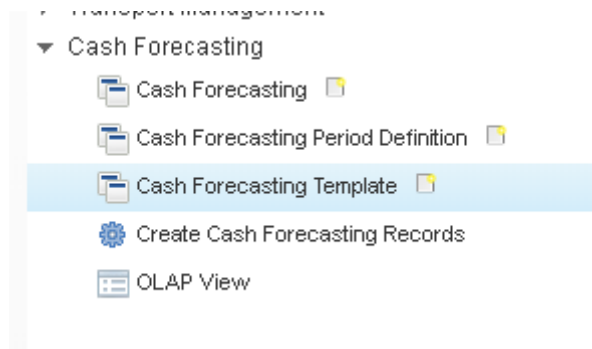
Apache Felix Web Console Bundles



After that you can use this functionality.



3 Cash Forecasting Setting



3.1 Cash Forecasting Period Definition

You can create by process Monthly, Weekly and Daily periods which can use for Cash Forecasting.

SuperUser@GardenWorld / GardenWorld Admin
Feedback | Preference | Change Role | Log Out

Home Cash Forecasting Period Def... x

Period Definition 3/3

<input type="checkbox"/>	Organization	Name	Description	Year	Active
<input type="checkbox"/>	*	2019 - weekly		2019	<input checked="" type="checkbox"/>
<input type="checkbox"/>	*	2019 - daily		2019	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	*	2019 - monthly		2019	<input checked="" type="checkbox"/>

Period 12 Records

<input type="checkbox"/>	Organization	Name	Period Definition	Period No	Start Date	End Date	Active
<input checked="" type="checkbox"/>	*	01-19	2019 - monthly	1	01/01/2019	31/01/2019	<input checked="" type="checkbox"/>
<input type="checkbox"/>	*	02-19	2019 - monthly	2	01/02/2019	28/02/2019	<input checked="" type="checkbox"/>
<input type="checkbox"/>	*	03-19	2019 - monthly	3	01/03/2019	31/03/2019	<input checked="" type="checkbox"/>
<input type="checkbox"/>	*	04-19	2019 - monthly	4	01/04/2019	30/04/2019	<input checked="" type="checkbox"/>
<input type="checkbox"/>	*	05-19	2019 - monthly	5	01/05/2019	31/05/2019	<input checked="" type="checkbox"/>
<input type="checkbox"/>	*	06-19	2019 - monthly	6	01/06/2019	30/06/2019	<input checked="" type="checkbox"/>
<input type="checkbox"/>	*	07-19	2019 - monthly	7	01/07/2019	31/07/2019	<input checked="" type="checkbox"/>
<input type="checkbox"/>	*	08-19	2019 - monthly	8	01/08/2019	31/08/2019	<input checked="" type="checkbox"/>
<input type="checkbox"/>	*	09-19	2019 - monthly	9	01/09/2019	30/09/2019	<input checked="" type="checkbox"/>
<input type="checkbox"/>	*	10-19	2019 - monthly	10	01/10/2019	31/10/2019	<input checked="" type="checkbox"/>

Create manually another periods if you need for example Quarterly or Yearly.



3.1.1 Create periods

Add new record on the Cash Forecasting Period Definition window and put Name and Year.

The screenshot shows the 'Cash Forecasting Period Def...' window in iDempiere. The 'Client' is 'GardenWorld' and the 'Organization' is blank. The 'Name' field is '2019 - monthy' and the 'Year' field is '2019'. The 'Active' checkbox is checked. A 'Create Periods' button is highlighted with a green box.

Run Create Periods process and put **Start date** and **Period No.**

3.1.1.1 Monthly periods

The 'Create Periods' dialog box shows the following fields: Start Date (01/01/2019), Date Format (MMM-yy), and Period No. (12). The 'Run as Job' checkbox is unchecked. The 'OK' and 'Cancel' buttons are at the bottom right. The 'Period No.' field is highlighted with a green box.

3.1.1.2 Weekly periods

The 'Create Periods' dialog box shows the following fields: Start Date (31/12/2018), Date Format (MMM-yy), and Period No. (52). The 'Run as Job' checkbox is unchecked. The 'OK' and 'Cancel' buttons are at the bottom right. The 'Period No.' field is highlighted with a green box.



3.1.1.3 Daily periods

Create Periods

Create others standard calendar periods. Example: 52-week or 365-day
Creates others periods from the specified start date. If no start date is specified, 1st of Jan will be used. The period name will be generated from the start date of each period using the java SimpleDateFormat pattern provided.

Start Date

Date Format

Period No*

Run as Job

Saved Parameters



3.2 Creating Cash Forecast Templates

You create cash forecast templates, from which you can generate periodic cash forecasts projecting your cash flow.

3.2.1 Creating Template Header

Add new record and put fields Name, Description and Currency

The screenshot shows a web browser window with the title 'Cash Forecasting Template: ...'. The browser's address bar shows 'Cash Forecasting Template'. The page content includes a form with the following fields:

- Client**: GardenWorld
- Organization**: (empty)
- Name**: Template 2_*_USD_Invoice&Payment
- Description**: (empty)
- Currency**: USD
- Active**:

3.2.2 Creating Template Lines

Add new record and write in fields :

- **Sequence** – for Order
- **Search key** – short name
- **Name** — Lines name
- **Description** - Lines description
- **Document BaseType** - BaseType for document if you need for search. If this field empty=All
- **Document Type** - Type for document if you need. If this field empty=All
- **Currency** — Currency for document if you need. If this field empty=All
- **Payment Rule** - Payment Rule for document if you need. If this field empty=All
- **Document Status** - Status of document if you need. If this field empty=All
- **Table** — Table of Document

The screenshot shows the 'Cash Forecasting Template' form with a 'Template Line' record. The form includes the following fields:

- Client**: GardenWorld
- Organization**: (empty)
- Sequence**: 1.0
- Search Key**: Outflow
- Name**: AP Invoice
- Description**: (empty)
- Document BaseType**: AP Invoice
- Document Type**: AP Invoice
- Payment Rule**: (empty)
- Currency**: USD
- Document Status**: Completed
- Active**:
- Cash Forecasting Template**: Template 2_*_USD_Invoice&Payment
- Table**: C_Invoice



4 Cash Forecasting functionality

Cash Forecasting using sources from iDempiere can generate cash forecasts from previously-defined cash forecast templates. You can choose whether to forecast by days or periods.

4.1 Generating Cash Forecasts Records based Template

When you submit a Cash Forecast, Cash Management collects the necessary source data and summarizes the information as cash forecast amounts, based on the forecast period specifications.

Run **Create Cash Forecasting Records** process and write in parameters

- *Date Promised Date From and Date To*
- *Period Definition*
- *Cash Forecasting Template*
- *Delete old/existing records*

Home Create Cash Forecasting Rec... x

Create Cash Forecasting Records
Create Cash Forecasting Records based on the Templates(SO,PO,Invoices and etc.) and the Periods on your calendar (monthly,weekly or daily).

Date Promised* 08/08/2019 15/08/2019

Period Definition* 2019 - monthly

Cash Forecasting Template* Template 2_*_USD_Invoice&Payment

Delete old/existing records

Run as Job

Saved Parameters

OK Cancel



4.2 Cash Forecasting Window

You can open Cash Forecasting Window form menu.

<input type="checkbox"/>	Date Promised	Cash Forecasting Period	Sequence	Search Key	Name	Amount	Source Amount	Description	Docum
<input checked="" type="checkbox"/>	01/01/2019		0.0	Opening Balance	Calculating Balance		148.35	Opening Balance from GL for DateFrom parameter	
<input type="checkbox"/>	01/01/2019	01-19	1.0	Opening Balance	Calculating Balance		148.35	Projected Opening Balance for StartDate of Period (...)	
<input type="checkbox"/>	31/01/2019	01-19	1.1	Outflow	AP Invoice	0.00	148.35	Period Definition:2019 - monthly Period: 01-19	
<input type="checkbox"/>	31/01/2019	01-19	1.2	Inflow	AR Invoice	0.00	148.35	Period Definition:2019 - monthly Period: 01-19	
<input type="checkbox"/>	31/01/2019	01-19	1.3	Inflow	AR Receipt	0.00	148.35	Period Definition:2019 - monthly Period: 01-19	
<input type="checkbox"/>	31/01/2019	01-19	1.4	Outflow	AP Payment	0.00	148.35	Period Definition:2019 - monthly Period: 01-19	
<input type="checkbox"/>	31/01/2019	01-19	1.5	Ending Balance	Calculating Balance		148.35	Projected Ending Balance for EndDate of Period (...)	
<input type="checkbox"/>	01/02/2019	02-19	2.0	Opening Balance	Calculating Balance		148.35	Projected Opening Balance for StartDate of Period (...)	
<input type="checkbox"/>	28/02/2019	02-19	2.1	Outflow	AP Invoice	0.00	148.35	Period Definition:2019 - monthly Period: 02-19	
<input type="checkbox"/>	28/02/2019	02-19	2.2	Inflow	AR Invoice	0.00	148.35	Period Definition:2019 - monthly Period: 02-19	
<input type="checkbox"/>	28/02/2019	02-19	2.3	Inflow	AR Receipt	0.00	148.35	Period Definition:2019 - monthly Period: 02-19	
<input type="checkbox"/>	28/02/2019	02-19	2.4	Outflow	AP Payment	0.00	148.35	Period Definition:2019 - monthly Period: 02-19	
<input type="checkbox"/>	28/02/2019	02-19	2.5	Ending Balance	Calculating Balance		148.35	Projected Ending Balance for EndDate of Period (...)	
<input type="checkbox"/>	01/03/2019	03-19	3.0	Opening Balance	Calculating Balance		148.35	Projected Opening Balance for StartDate of Period (...)	
<input type="checkbox"/>	31/03/2019	03-19	3.1	Outflow	AP Invoice	0.00	148.35	Period Definition:2019 - monthly Period: 03-19	
<input type="checkbox"/>	31/03/2019	03-19	3.2	Inflow	AR Invoice	0.00	148.35	Period Definition:2019 - monthly Period: 03-19	
<input type="checkbox"/>	31/03/2019	03-19	3.3	Inflow	AR Receipt	0.00	148.35	Period Definition:2019 - monthly Period: 03-19	
<input type="checkbox"/>	31/03/2019	03-19	3.4	Outflow	AP Payment	0.00	148.35	Period Definition:2019 - monthly Period: 03-19	
<input type="checkbox"/>	31/03/2019	03-19	3.5	Ending Balance	Calculating Balance		148.35	Projected Ending Balance for EndDate of Period (...)	
<input type="checkbox"/>	01/04/2019	04-19	4.0	Opening Balance	Calculating Balance		148.35	Projected Opening Balance for StartDate of Period (...)	
<input type="checkbox"/>	30/04/2019	04-19	4.1	Outflow	AP Invoice	0.00	148.35	Period Definition:2019 - monthly Period: 04-19	
<input type="checkbox"/>	30/04/2019	04-19	4.2	Inflow	AR Invoice	0.00	148.35	Period Definition:2019 - monthly Period: 04-19	
<input type="checkbox"/>	30/04/2019	04-19	4.3	Inflow	AR Receipt	0.00	148.35	Period Definition:2019 - monthly Period: 04-19	
<input type="checkbox"/>	30/04/2019	04-19	4.4	Outflow	AP Payment	0.00	148.35	Period Definition:2019 - monthly Period: 04-19	
<input type="checkbox"/>	30/04/2019	04-19	4.5	Ending Balance	Calculating Balance		148.35	Projected Ending Balance for EndDate of Period (...)	

<input type="checkbox"/>	30/11/2019	11-19	11.5	Ending Balance	Calculating Balance		25,341.98	Projected Ending Balance for EndDate of Period (...)	
<input type="checkbox"/>	01/12/2019	12-19	12.0	Opening Balance	Calculating Balance		25,341.98	Projected Opening Balance for StartDate of Period (...)	
<input type="checkbox"/>	31/12/2019	12-19	12.1	Outflow	AP Invoice	0.00	25,341.98	Period Definition:2019 - monthly Period: 12-19	
<input type="checkbox"/>	31/12/2019	12-19	12.2	Inflow	AR Invoice	0.00	25,341.98	Period Definition:2019 - monthly Period: 12-19	
<input type="checkbox"/>	31/12/2019	12-19	12.3	Inflow	AR Receipt	0.00	25,341.98	Period Definition:2019 - monthly Period: 12-19	
<input type="checkbox"/>	31/12/2019	12-19	12.4	Outflow	AP Payment	0.00	25,341.98	Period Definition:2019 - monthly Period: 12-19	
<input type="checkbox"/>	31/12/2019	12-19	12.5	Ending Balance	Calculating Balance		25,341.98	Projected Ending Balance for EndDate of Period (...)	
<input type="checkbox"/>	31/12/2019	12-19	999.0	Ending Balance	Calculating Balance		25,341.98	Projected Ending Balance for DateTo parameter (...)	

<input type="checkbox"/>	31/12/2019	12-19	999.0	Ending Balance	Calculating Balance		25,341.98	Projected Ending Balance for DateTo parameter (...)	
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4.3 Cash Forecasting Report

You can create Cash Forecasting Report use button Report on the Tools panel in this window.

Sequence	Date Promised	Value	Name	Amt	Source Amount	Cash Forecasting Period
0.0	01/01/2019	Opening Balance	Calculating Balance		148.35	
1.0	01/01/2019	Opening Balance	Calculating Balance		148.35	01-19
1.1	31/01/2019	Outflow	AP Invoice	0.00	148.35	01-19
1.2	31/01/2019	Inflow	AR Invoice	0.00	148.35	01-19
1.3	31/01/2019	Inflow	AR Receipt	0.00	148.35	01-19
1.4	31/01/2019	Outflow	AP Payment	0.00	148.35	01-19
1.5	31/01/2019	Ending Balance	Calculating Balance		148.35	01-19
				0.00		01-19 E

				0.00		05-19 E
6.0	01/06/2019	Opening Balance	Calculating Balance		148.35	06-19
6.1	30/06/2019	Outflow	AP Invoice	0.00	148.35	06-19
6.2	30/06/2019	Inflow	AR Invoice	23,300.00	23,448.35	06-19
6.3	30/06/2019	Inflow	AR Receipt	0.00	23,448.35	06-19
6.4	30/06/2019	Outflow	AP Payment	0.00	23,448.35	06-19
6.5	30/06/2019	Ending Balance	Calculating Balance		23,448.35	06-19
				23,300.00		06-19 E
7.0	01/07/2019	Opening Balance	Calculating Balance		23,448.35	07-19
7.1	31/07/2019	Outflow	AP Invoice	0.00	23,448.35	07-19
7.2	31/07/2019	Inflow	AR Invoice	0.00	23,448.35	07-19
7.3	31/07/2019	Inflow	AR Receipt	2,500.00	25,948.35	07-19
7.4	31/07/2019	Outflow	AP Payment	-606.37	25,341.98	07-19
7.5	31/07/2019	Ending Balance	Calculating Balance		25,341.98	07-19
				1,893.63		07-19 E

11.5	30/11/2019	Ending Balance	Calculating Balance		25,341.98	11-19
				0.00		11-19 E
12.0	01/12/2019	Opening Balance	Calculating Balance		25,341.98	12-19
12.1	31/12/2019	Outflow	AP Invoice	0.00	25,341.98	12-19
12.2	31/12/2019	Inflow	AR Invoice	0.00	25,341.98	12-19
12.3	31/12/2019	Inflow	AR Receipt	0.00	25,341.98	12-19
12.4	31/12/2019	Outflow	AP Payment	0.00	25,341.98	12-19
12.5	31/12/2019	Ending Balance	Calculating Balance		25,341.98	12-19
999.0	31/12/2019	Ending Balance	Calculating Balance		25,341.98	12-19
				0.00		12-19 E
E				25,193.63		



4.4 Cash Forecasting Reports from Oracle Cash Management for example

4.4.1 Usefull link

This Plugin developed based Oracle Cash Forecasting functionality. More detail you can find here: [https://docs.oracle.com/cd/E26401_01/doc.122/e48900/T359831T359838.htm#l_cx2Dfrst].

4.4.2 Report by Organizations

5 Day Forecast (USD)		3/21/16	3/22/16	3/23/16	3/24/16	3/25/16
Vision City LE	Balance	193,054.76	193,054.76	193,054.76	193,054.76	193,054.76
	Inflow	0.00	0.00	0.00	0.00	0.00
	Outflow	0.00	0.00	0.00	0.00	0.00
	Projected	193,054.76	193,054.76	193,054.76	193,054.76	193,054.76
Vision Financial Services (USA)	Balance	14,979,996.00	14,979,996.00	14,979,996.00	14,979,996.00	14,979,996.00
	Inflow	0.00	0.00	0.00	0.00	0.00
	Outflow	0.00	0.00	0.00	0.00	0.00
	Projected	14,979,996.00	14,979,996.00	14,979,996.00	14,979,996.00	14,979,996.00
Vision Foods USA Ltd.	Balance	0.00	0.00	0.00	2,156,109.22	2,156,109.22
	▶ Inflow	0.00	0.00	2,156,109.22	0.00	2,156,109.22
	Outflow	0.00	0.00	0.00	0.00	0.00
	Projected	0.00	0.00	2,156,109.22	2,156,109.22	4,312,218.44
Vision Operations	Balance	51,505,990,380.40	51,506,999,516.54	51,507,090,428.45	361,676,215,035.49	361,785,809,146.63
	▶ Inflow	1,029,812.02	212,082.09	310,169,146,402.04	109,602,950.24	126,904,448,566.12
	▶ Outflow	20,675.88	121,170.18	21,795.00	8,839.10	100,037.00
	Projected	51,506,999,516.54	51,507,090,428.45	361,676,215,035.49	361,785,809,146.63	488,690,157,675.75

and more detail for Doc Type

Vision Italy	Balance	0.00	-2,000.00	-2,000.00	-2,000.00	-2,000.00
	Inflow	0.00	0.00	0.00	0.00	0.00
	▶ Outflow	2,000.00	0.00	0.00	0.00	0.00
	Projected	-2,000.00	-2,000.00	-2,000.00	-2,000.00	-2,000.00
All Legal Entities	Balance	51,521,163,431.16	51,522,170,567.30	51,522,261,479.21	361,693,542,195.47	361,803,136,306.61
	▲ Inflow	1,029,812.02	212,082.09	310,171,302,511.26	109,602,950.24	126,906,604,675.34
	AR Invoices	20,225.64	188,811.09	310,171,275,775.26	109,578,427.24	126,906,594,021.34
	AR Receipts	943,752.38	0.00	0.00	0.00	0.00
	External Transactions	65,834.00	25,271.00	26,736.00	24,523.00	10,654.00
	▲ Outflow	22,675.88	121,170.18	21,795.00	8,839.10	100,037.00
	AP Invoices	3,000.00	69,826.30	0.00	7,486.22	63,000.00
	AP Payments	5,550.00	0.00	0.00	0.00	0.00
	External Transactions	14,125.88	51,343.88	21,795.00	1,352.88	37,037.00
	Projected	51,522,170,567.30	51,522,261,479.21	361,693,542,195.47	361,803,136,306.61	488,709,640,944.95



4.4.3 Report for Organization by Payment Rule

5 Day Cash Forecast							
Chase San Francisco (USD)							
	Mar 21, 2016			Forecast			
	Forecast	Actuals	Variance	Day 2	Day 3	Day 4	Day 5
Opening Balance							
Closing Ledger Balance	900,543.00	900,543.00		952,251.12	926,178.24	931,119.24	954,289.36
2-Day Float	0.00	0.00					
Opening Balance	900,543.00	900,543.00		952,251.12	926,178.24	931,119.24	954,289.36
Inflows							
Bank adjustment	235.00	0.00	235.00	610.00	0.00	7,986.00	581.00
Fee	2,664.00	0.00	2,664.00	2,664.00	13,264.00	0.00	0.00
Check	6,768.00	0.00	6,768.00	6,563.00	6,909.00	0.00	0.00
Electronic funds transfer	0.00	0.00	0.00	8,871.00	6,563.00	346.00	0.00
NO_TRANSACTION_TYPE_V	56,167.00	0.00	56,167.00	0.00	0.00	13,527.00	10,073.00
Lockbox	0.00	0.00	0.00	6,563.00	0.00	2,664.00	0.00
Total Inflows	65,834.00	0.00	65,834.00	25,271.00	26,736.00	24,523.00	10,654.00
Outflows							
Bank adjustment	202.00	0.00	202.00	1,509.00	9,961.00	0.00	0.00
Fee	464.00	0.00	464.00	464.00	155.00	0.00	464.00
Check	888.88	0.00	888.88	888.88	0.00	0.00	0.00
Electronic funds transfer	11,996.00	0.00	11,996.00	33,111.00	10,425.00	888.88	33,966.00
NO_TRANSACTION_TYPE_V	0.00	0.00	0.00	15,216.00	0.00	0.00	0.00
Lockbox	575.00	0.00	575.00	155.00	1,254.00	464.00	2,607.00
Total Outflows	14,125.88	0.00	14,125.88	51,343.88	21,795.00	1,352.88	37,037.00
Manual Inflows							
Transaction Type	0.00			0.00	0.00	0.00	0.00
Total Inflows	0.00			0.00	0.00	0.00	0.00
Manual Outflows							
Transaction Type	0.00			0.00	0.00	0.00	0.00
Total Outflows	0.00			0.00	0.00	0.00	0.00
Projected Ending Balance	952,251.12	900,543.00	51,708.12	926,178.24	931,119.24	954,289.36	927,906.36
Target Balance	750,000.00	750,000.00					
Variance	202,251.12	150,543.00	51,708.12	176,178.24	131,119.24	154,289.36	127,906.36



5 Easy OLAP Integration (Saiku BI)

5.1 Install Saiku BI Community Edition

For install you can use **Installation Guide** from [https://saiku-documentation.readthedocs.io/en/latest/installation_guide.html#saiku-community-edition]

5.2 Add URL to System Configurator

You can change parameter OLAP_URL for your OLAP Server on System Configurator Window.

5.3 Add Data Sources

Set connection to your Database

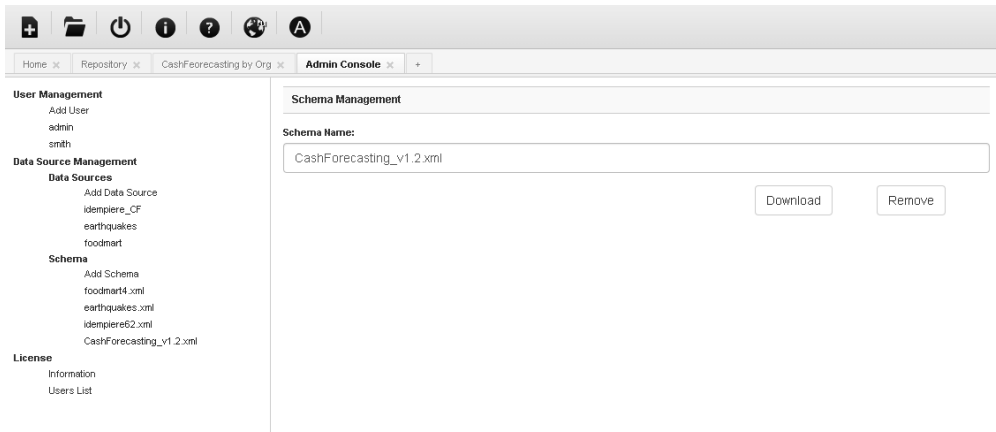
The screenshot shows the 'Create Data Source' form in the Saiku BI Admin Console. The form is titled 'Create Data Source' and contains the following fields and options:

- Name:** idempiere_CF
- Connection Type:** Mondrian (selected from a dropdown menu)
- URL:** jdbc:postgresql://localhost:5444/idempiere62_cf
- Schema:** /datasources/CashForecasting_v1.2.xml (selected from a dropdown menu)
- JDBC Driver:** org.postgresql.Driver
- Username:** adempiere
- Password:** masked with asterisks
- Security:** None (selected from a dropdown menu)

At the bottom of the form, there are four buttons: 'Advanced', 'Refresh Cache', 'Save', and 'Remove'.

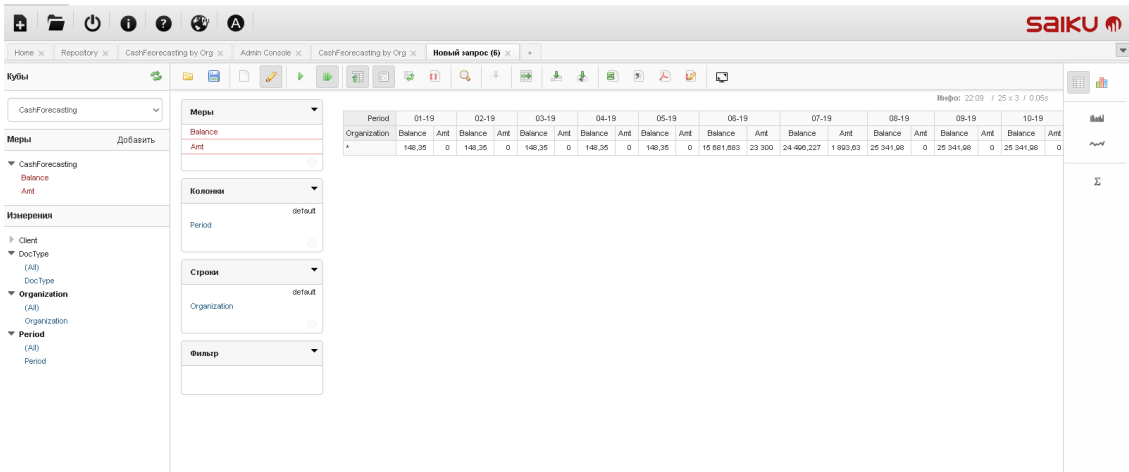
5.4 Add Schema

Download file CashForecasting_v1.xml from <https://bitbucket.org/pshepetko/org.idempiere.cashforecasting/downloads/> and add to the Schema

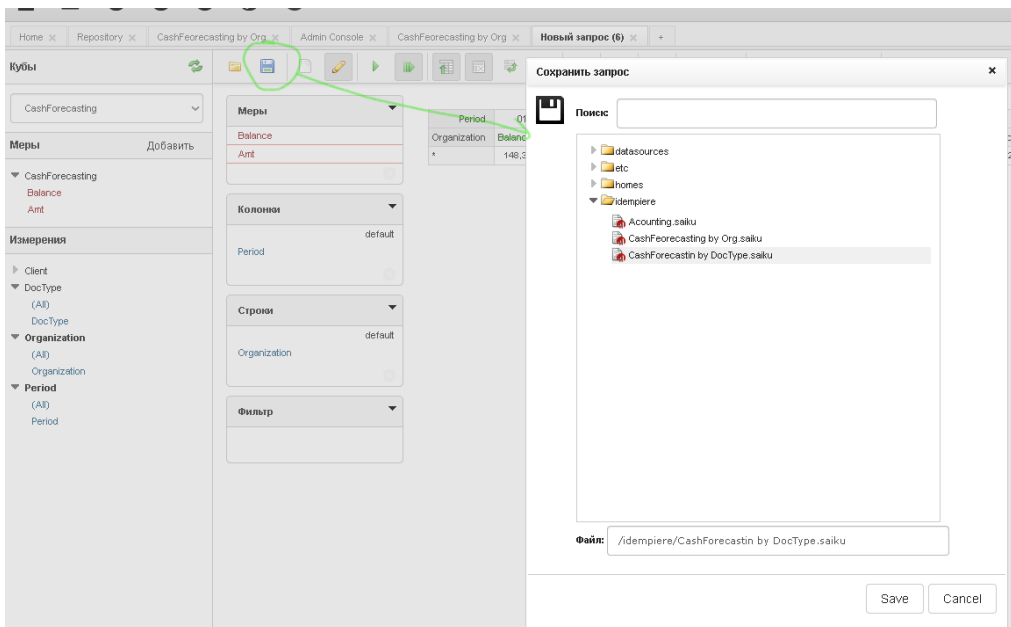


5.5 Create and Save Cube

Create New Cube use Button +



Save your Cube use button Save

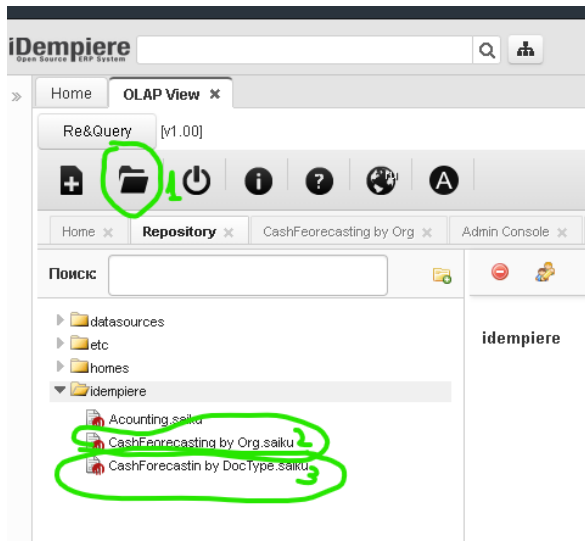






5.6 Cash Forecasting OLAP view

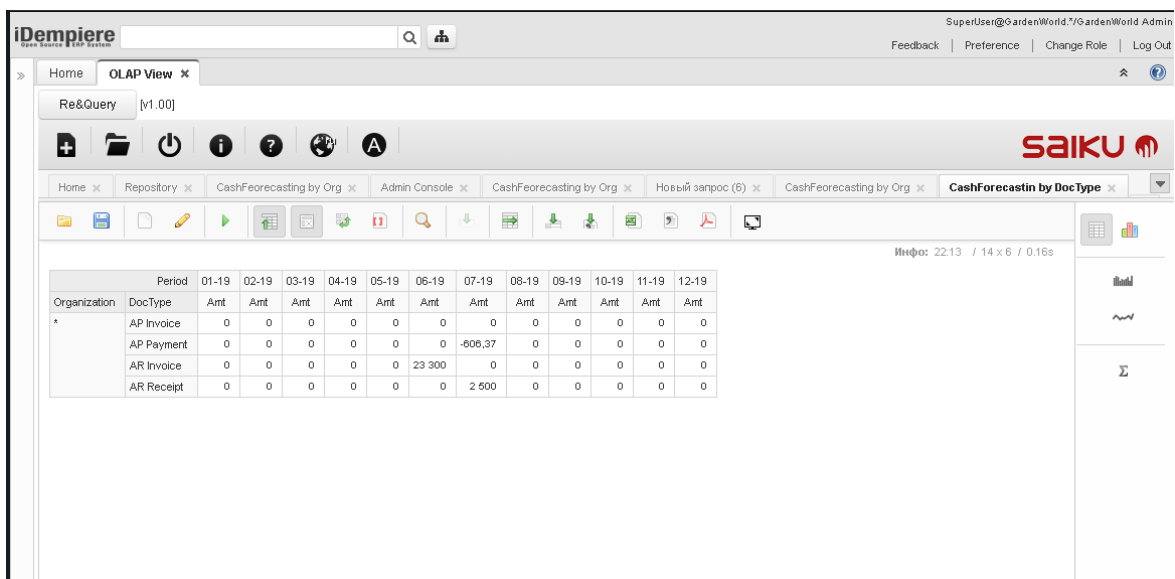
Open your OLAP used button Folder (1) on panel



and create OLAP CashForecasting by Org (2)



Or create OLAP CashForecasting by DocType (3)





6 Project Protocol

6.1.1 Project Version

Cash Forecasting v1.0.1a

6.1.2 Source Repository

<https://bitbucket.org/pshepetko/org.idempiere.cashforecasting>

6.1.3 Project Forum for Support

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

Issues for this plugin <https://bitbucket.org/pshepetko/org.idempiere.cashforecasting/issues>

6.1.4 Contact

Peter Shepetko: pshepetko@gmail.com