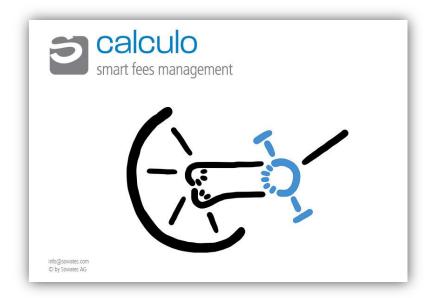


calculo User Manual



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1 Introduction

1.1 What is calculo

calculo is Sowatec's business solution for managing fees. The solution integrates seamlessly into existing IT infrastructures and automates time-consuming accounting processes. Thanks to the strict separation of the programme code from business rules a high level of flexibility is achieved. Thus, changes to business rules can be quickly and easily implemented by simply adjusting the appropriate fee models in calculo.

1.2 Target group of the user manual

This user manual is aimed at the business user and should enable them to perform the following tasks or activities in calculo:

- Manage master data and transaction data
- Calculate fees
- Generate reports

This document does not cover configuring calculo (e.g. creating new types of fee templates, creating new types of reports, making structural changes in the GUI, etc.) For more detailed information on those topics, please refer to the calculo Application Managers Handbook, which covers the topic of configuring calculo.

2 Navigation concept

2.1 calculo at a glance

The calculo interface is divided into four main areas, which are described in detail in this chapter:

- calculo components
- View
- Detail
- Business Activity Monitor (BAM)

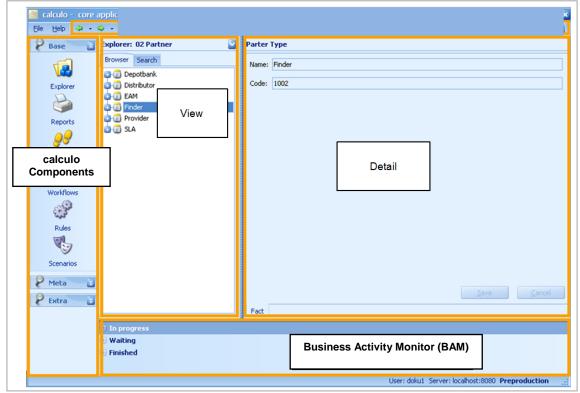


Figure 1: calculo user interface

2.2 calculo Components

The calculo components are:

- Explorer
- Reports
- Tasks
- Workflows
- Rules

These are related functions that can be individually assigned to user roles. The user can be given access to one or more of the components listed above.



Explorer

The user can access a variety of master data within this component. For example:

- Partners
- Products
- Currencies
- Portfolio
- Customer accounts
- System-related data
- etc.

Reports

In this component, you can generate calculo standard reports and customer specific reports. The report functionality allows to execute predefined reports (see <u>Chapter 8</u>).

Tasks

The tasks correspond to a model of the billing process (see <u>Chapter 6</u>). Here proposed calculations are called up and settled in a step-by-step process.

Workflows

This component contains all the workflows (see <u>Chapter 9</u>). Workflows are groups of related activities such as imports, export, housekeeping etc.

Rules

In this component, the user creates the rules or conditions of the customer-specific fee models. The conditions are fundamental to the fee calculations and representation of the business contract. The topic of rules is discussed in detail in <u>Chapter 5</u>.

2.3 View

The view consists of a drop-down menu and a browser and provides quick, clear access to all kinds of information. The drop-down selections can be individually assigned to specific user roles.

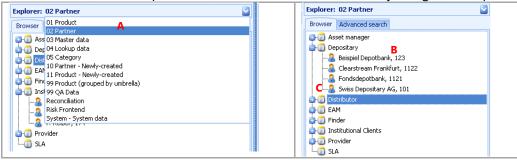


Figure 2: calculo "View"

Example



On selection of "Partner" (see A), the browser displays all the partners by partner type (see B). The browser works a bit like Windows Explorer — you can access the data by opening and closing the folder structures (see C).

2.4 Detail

The detail area contains more detailed information on the selected data. It consists of the Fact Tab, which in turn, contains data fields (= attributes). Within the detail area, there may be other tabs with detailed views that can be applied individually to customer specifications.

2.5 Business Activity Monitor (BAM)

In the Business Activity Monitor (BAM), all activities are displayed. e.g. workflows, reports, calculations, importing, exporting, etc. An activity can be in three states:

- in progress
- waiting
- finished

The BAM is composed of the following information:

Status Icon

The green dot indicates the error-free completion of the <u>technical process</u> of an activity. This does not imply anything about the commercial content or the output of the activity. If the activity cannot be completed correctly it is marked with a red dot.

Time

This shows the time when the activity was completed.

Message

The name of the activity performed is shown here.

Status

In the BAM the following statuses are output from activities:

- running (started and running)
- completed (correct technical completion)
- abort (manually cancelled by user)
- error (technical problems or faulty system behaviour encountered during processing)

The user can intervene manually (with a mouse right-click), this interrupts an activity and the BAM entry can then be deleted.

Originator

Name of the user who has started the activity.

Documents

The results of the activity in the form of documents or log files can be displayed here. Documents can be opened or saved via the context menu (mouse right-click) or saved by means of Drag & Drop.

3 Handling of information in calculo

This chapter describes how users can call up and manage information in calculo.

3.1 Search functions

Search

The user can search for data or information via the "Search" field in the "View" component. During configuration of calculo, the attributes that can be searched in each component will have been defined. The green arrows start the search, or jump to the next / previous result.

Search	(

Figure 3: Search field in the "View" Component.

Advanced Search

In the "Explorer" component, an "Advanced search" function is available. It allows the user to locate data or information quickly using additional attributes and it is also possible to search with wildcards (*). The choice of attributes available for searching, can be defined when calculo is installed for your company.

Unlike the "Search" function, "Advanced Search" will only search within the specified attribute.

Example

In the "Explorer View: Partner", there are two search fields — 'place' and 'term'. The user has entered the attributes "Partner category" and "3rd party distribution". The result of this search is a list of all partners with "Partner category" "3rd party distribution".

Explor	er: 01 Partner 🛛 📓
Browse	er Advanced search
Place:	Partner category
Term:	3rd Party Distribution (9)
With:	History Deleted Search

Figure 4: Advanced Search in the "Explorer View" Component.

3.2 Quick access to data

Navigation

Using the arrow icons, the user can navigate back and forth through previously accessed views within the View component and the detail section.

Eile Help 📿	+ 🗳 +	
<u>^</u>	Explorer: 02 Partner	Depositary
🖌 Base 🛛 🖄	Browser Advanced search	Key figure His
V	 Garage Asset manager Garage Constant 	Name:
Explorer	- 🔒 Beispiel Depotbank, 123	Network:

Figure 5: Navigation with arrow icon button

Link Target

Generally, fields that contain a data list can be given a customer installation specific "Link Target" (green arrow). The arrow allows direct access to the detailed data of the selection or selected entries. This makes jumping between different groups of data possible, thus facilitating the access to various data within calculo.

 🔶 🔽

Figure 6: Navigation with Link Target

3.3 Fields in the detail area

White shaded fields

In calculo there are some fields with a white background. The data in these fields can be changed by the user, filled with new information or specified via a predefined selection list.

Blue shaded fields

The blue shaded fields are read-only attributes that cannot be changed by the user.

All fields can be customized during set-up so that they will either require a mandatory or optional user entry or be write-protected.

3.4 Types of Tabs

In the detail area, there are different types of tabs available to call up and process data:

Fact Tab

For each record selected in View, there is a Fact tab in the Detail Area that displays the basic information of the selected record.

Pivot Tables

The presentation of data as a pivot table allows the user to list information in a matrix. The columns to be displayed in the matrix are custom defined.

With the "View Mode" button, the user can display the data in three different ways:

- 1. Nested labelling of the Y-axis
- 2. Freezes labelling on the Y-axis
- 3. Like 2, but during scrolling the whole line (including the title row) is shifted.

			<i>.</i>	
The displaye	ed data car	he sorted	filtered	or aggregated.
The displaye	cu uata car	i be sorteu,	, milereu,	or aggregated.

stributor								Modif	ied 26.07.2012 15:20	:33, Administr
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Quantity Volume			Tropsaction point (Y	ear) 🛧 🛛 Transact	ion point (Quarter) 🛧	Transaction poin	it (Month) 🛧 🛛 Tra	nsaction point 🛧		
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			🖨 Cuarter 1							
			🖨 🖾 anuar							
			03.01.2011		04.01.2011		05.01.2011		06.01.2011	
🗃 Admini 🛧 🎽 🖬 Provider 🔹 🛧	Product			Volume	Quantity	Volume	Quantity	Volume	Quantity	Volume
SWT Switzerland SWT Invest, 10	IE0002981391	Aggr	regation	3'538.1130	244.0000	3'498.5771	247.0000	3'564.7881	246.0000	3'601
	IE0003002163	- Swill Star	151.0000	2'466.7843	150.0000	2'452.8578	151.0000	2'485.3822	151.0000	2'521
Sorting and	IE0003014135	- SWT Jap	81.0000	13'511.9865	80.0000	13'264.9142	81.0000	13'543.1680	80.0000	13'573
-	IE0005619279	- SWT Star	524.0000	6'276.0348	519.0000	6'190.7955	525.0000	6'315.1972	522.0000	6'314
Filters	IE0005667849	- SWT Star	96.0000	166.1500	95.0000	163.4304	96.0000	166.5334	95.0000	167
	IE0005668367	SWT STA	50.0000	456.9273	50.0000	457.3767	50.0000	460.3723	50.0000	467
	LU0214152273	- SWT Co	65.0000	63'134.0195	64.0000	62'223.8572	65.0000	63'610.0081	64.0000	63'534
		2 - SWT A2	38.0000	9'658.7680	38.0000	9'619.3734	38.0000	9'700.5263	38.0000	9'754

Figure 7: Pivot table on the Tab "Asset Holding"

The retrieved data can be exported to a file using the "Export" button. If the data is needed for further steps such as double-checking of calculated sums, then it is advisable/possible to save the Export to a CSV file.

	om: 01.01.												1	Export	-
mode Date t	31.03.	.2013 💟													-
ntity Volume				Transaction	point (Year)	r) 🛧 Transact	tion point (Q	uarter) 🛧 🏻 Tr	insaction point (M	lonth) 🛧 Tra	ansaction poin	nt 🛧			
				Year 201	2										
				🖃 Quarter 2									Quarter 3		
				🖃 April			🖃 Mai			Juni		-			
roduct 🛧	Original.	🛧 Stat		30.04.2012			31.05.201			.06.2012			07.2012		
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	Eile 33	e <u>V</u> iew <u>B</u> Quantity Volu	me Original	portfolio St	atus	Transact Year 201 Quarter April 30.04.20 Quantity	cion point(Y 2 2 12	ear) Transactio	Mai 31.05.2012 Quantity	Transaction po	int (Month) T	luni 80.06.2012	Volum		
	Eile 33	e <u>V</u> iew <u>B</u> i Quantity Volu Product	me Original	portfolio St	atus	Transact Year 201 Quarter : April 30.04.20 Quantity 2	lion point(Y 2 2 12 13'858.0000	ear) Transaction	Mai 31.05.2012 Quantity 00 21'795	Volume	int (Month) T 3 G 58'121.2000	luni 30.06.2012 Quantity 36'79	Volum 5.0000 51	ie 348'889.15/	
	Eile 33	e <u>V</u> iew <u>B</u> i Quantity Volu Product	me Original	portfolio St	atus	Transact Year 201 Quarter : April 30.04.20 Quantity 2	lion point(Y 2 2 12 13'858.0000	ear) Transactio	Mai 31.05.2012 Quantity 00 21'795	Transaction po	int (Month) T 3 G 58'121.2000	luni 80.06.2012 Quantity	Volum 5.0000 51	10	
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	Eile 33 C	e <u>V</u> iew <u>B</u> i Quantity Volu Product	me Original	portfolio St	atus	Transact Year 201 Quarter : April 30.04.20 Quantity 2	lion point(Y 2 2 12 13'858.0000	ear) Transaction	Mai 31.05.2012 Quantity 00 21'795	Volume	int (Month) T 3 G 58'121.2000	luni 30.06.2012 Quantity 36'79 36'795	Volum 5.0000 51	ie 348'889.15/	

Figure 8: Export File

The data can be displayed as a chart-graph.

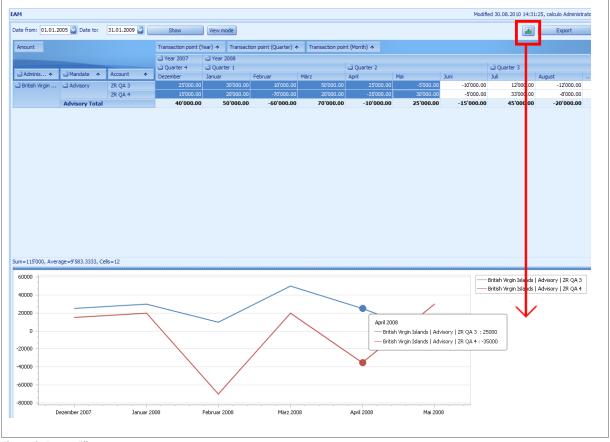


Figure 9: Export File

Temporal Lists

Data within a tab can also be represented as temporal lists to show the data changes over time. This can be used, for example, to establish a link between various master data at a specific time. A temporal list can be used to see data from a record at any time in the past. In the graph below, the temporal list of the currency exchange rate is shown: CHF - EUR.

Currency	Mo	odified 01.01.2000 00:00:00, \$Sys
Key figure Histo	ry	
valid From	Ψ	Rate
17.01.2013		0.802600
17.12.2012		0.827712
14.12.2012		1.208350
13.12.2012		1.208500
12.12.2012		1.211450
11.12.2012		1.212201
10.12.2012		1.206650
07.12.2012		1.207999
06.12.2012		1.209450
05.12.2012		1.211949
04.12.2012		1.211949
03.12.2012		1.208651
30.11.2012		1.204901
29.11.2012		1.204000
28.11.2012		1.203400
27.11.2012		1.204451
26.11.2012		1.203950
23.11.2012		1.204700
15.11.2012		1.204050

Figure 10: Temporal List Currency

3.5 Audit & History

History Tab

calculo offers the possibility to log all data changes. The log data can be viewed in the History tab in the details pane and can be customised at the data type level. For example, one can define that all fields within the "Partner Tabs" should be historized. The history logs the name of the user and the time of access and what data was added or deleted. In calculo, historized data can be evaluated as a customer specific report.



Figure 11: Tab "History"

Audit

The assignment of the audit function is custom-defined at the field level. Fields with audit functions set are prefixed with a paragraph "§" symbol in front of the field name.

Figure 12: Field with Audit Function enabled

Once the contents of a field are to be modified and saved, the Audit window appears. Here the user must specify a reason for the change and optionally provide identification and a reference. In the reference field it is possible to store the path to a document which is relevant for the change.

P	The current fact has been modifed. Do you want to save the changes?
Reason:	
Approved by:	
Reference:	P:\Projects\calculo\02_Project Results\03_Docume
	Save

Figure 13: Input mask for Audit field

Audit-related changes are highlighted in orange in the History Tab

stributor		
ey figure History		
Action Name	Fact type	Modification date User
Name:12500000038117 (105690)	Partner	31.05.2013 11:28:52 calculo Administrator
Attributes	Origin	Modification
SAP account no	14323	14324
Name:12500000038117 (105690)	Partner	07.01.2013 11:46:19 ModificationUser:12500000038117
Attributes	Origin	Modification

Figure 14: History with Audit-relevant modifications

3.6 Context Menu commands

Data can be edited using the context menu (right-mouse button). The following commands can be executed depending on whether the user is in the "View" or "Detail Area":

- "View" and "Detail" Area
 "View" only
 - New
 Refresh
 - о Сору
 - o Delete

Detailed layout

When a user with the appropriate authorization opens the context menu in the detail area, he can use the option "Customize Layout" to change the details of the current layout. Fields can be shown or hidden. Furthermore, columns, place-holders, fields, and dividing lines can be adjusted as required. Using the right mouse button, the user has the ability to sort column contents or set the optimal column width in tables.

System amount gr	oss					PivotGrid Field List
						Drag Items to the PivotGrid
Administra 🛧	Туре	Ψ	State	¥	Representa	!
Grand Total						Activity
						Carry forward settlement
						Correction sum for min./max
						Add To Row Area

Figure 15: Field list mask on Pivot Table

3.7 Layout adjustments

In calculo, the view or the layout of the GUI can be adjusted. These adjustments can be made only by users with the appropriate authorization. Layout changes affect all users. The following tab views can be customized:

Pivot Table View

Attributes of the data presented can be added here. It is possible to define multiple layouts for Pivot tables. The user can then switch between different layouts.

4 Partners and Product

In this chapter, we discuss master data and information that must be available at the Partner and Product level. Firstly, these data are necessary for a Partner or Product settlement calculation to be carried out at all. Secondly, they serve to provide the user with a means of visually verifying fees that have already been settled.

Definition Partners

In calculo, a Partner is any settlement partner. This includes both those who receive a fee (Trailer Fee Out) and to those who pay a fee (i.e. Trailer Fee in).

Definition Product

In calculo, a Product is a financial instrument, for which assets are held. Products can either be used as the basis for billing a Partner (Trailer Fee Out / In Trailer Fee) or the Product itself can be settled (= Product accounting).

Asset Holdings

The tab "Asset Holding" contains information about what assets were present at what times. In the Asset Holdings, besides displaying the product and the number held, the volume can also be displayed. The product volume is always shown in the system currency. To conduct a product-based settlement calculation AuMs (asset under management) have to exist. The tab "AuM" contains the information about when the assets are held.

Show Date from: 01.01.200 View mode Date to: 31.01.201								Export
Quantity					Transactio 🛧	Transactio 🛧	Transactio 🛧	Transactio 🛧
					🖃 Year 2012			
					🖃 Quarter 2			
					🖃 April	🖃 Mai	🖃 Juni	
Product	^ ∑	📄 Portfolio 🛛 🛧	Status	^	30.04.2012	31.05.2012	30.06.2012	
FR0000011884 ALLIANZ MONETAI	RE	Datasource:	Confirmed	Í	65'935.0420	65'419.0160	64'389.1430	
		Datasource:	Confirmed	ï	108,7240	108,7240	108,7240	
FR0000011892 ALLIANZ OBLIGATI	ONS INTERNATION	Datasource:	commu					

Figure 16: Pivot table on Tab "Asset Holding"

4.1 Requirements for a Partner or Product Settlement calculation

The basic data needed for fee calculations are module dependent and are shown within the fact types Partner/Product in one or more tabs as pivot tables. The most important basic data are described in detail below.

Profile Tab

The individual contract elements are displayed in the Profile Tab. Profiles can be defined at the Partner or Product level and form the basis of the calculation of fees via the definition of accounting periods, conditions or settlement currency etc. The details for defining the Profile for fee calculations will be explained in <u>Chapter 7</u>.

	utor											Moi	dified 26.07.2012 15::	20:33, Administra
ey f	igure Histo	ry												
. (🇊 Administr	ation	•	Valid from	*	Valid to	Accrual	Settlement	📲 Fee type		S Frequency	실 ISO	这 Contract	2
s	WT Switzerk	and		01.01.2011		09.08.2012		~	Trailer fee outg	oing - daily	quarterly	CHF		
s	WT Switzerk	and		01.01.2007		30.06.2007		~	Trailer fee outg	bing	monthly	CHF	TA4321	

	ailer fee in	coming												2
	Condition			(0	_									
		on Ruleset		@Bank Se										
		on Ruleset		@Exclusio	on_CRPT	est								
	Payment	based in profile curre	ngu onli											
		in profile curre ion Ruleset	sicy only											
		uleset - Qualif	ication	@ JP More	ian Total	Volume								
	Limit	aicsec Quali	cacion	() Si Tion	jan roca	Foldine								
		payment amo	unt											
	Minimum	payment amou	int											
	Validity m	iininum / maxin	num											
۲	Statement													
	Proforma	Invoice												

INK	Sowatec													I
					Conditio							Actions		
	/alid from	Valid to	🍤 Shi	are class	💊 Asse		🔒 Depositary	R Product	: 💣 Tier	🕜 Volume	Tier currency	Percent Mgm		BP Absolute
L					Aktienfor	ids							0.000	
2					Bond								0.000	
3												3	0.000	
														Cancel

In the Profile Tab, the user can display the linked rulesets using the 🐸 button to open a subwindow.

Figure 17: Tab "Profile" for Partner

Address Tab

In this tab, the Partner's address data is recorded and maintained. If necessary, multiple addresses can also be recorded and used appropriately in generating customer letters, reports or e-mails.

Bank Tab

In this tab, the bank details are recorded and maintained for the payment of Product or Partner Fees. For each Partner or Product multiple bank account details can be captured as required. The payment execution will be managed in accordance with the stored Settings. After calculation of the settlement, the billing-related information such as Beneficiary, IBAN, SWIFT, etc. can be passed to another system which then triggers the payment.

Settings Tab

This tab has the same structure as a ruleset (see <u>Section 5.1</u>). The appearance of the details pane will depend on the settings made for your company during the installation of calculo. It also has the same properties as a ruleset and plays an important role for the calculation and payment of fees. Example settings include: bank details for use when a payment is to be made, or so-called Partner Qualifications (for example, definition of a minimum payment amount, or a minimum volume, which must be present for a payment to be made).

Figure 18: Tab "Settings" on Partner

4.2 Information on completed Settlements

Settlement / Calculation Tab

Via the Settlement Tab the user can see the dates and times when Partner settlements were carried out. Product Settlement information is visible via the Calculation Tab. The status of the settlement calculations and the calculated amount will be displayed. A distinction is also made between Settlement and Accrual calculations. The information will be displayed in accordance with the configuration defined during installation of calculo for your company.

te from: 01.12.2009	Date to:	27.07.2013 🗧 🛙	Hide reversal 🗸 H	ide deleted 🛛 Hid	e old Accrual	Show				Export View mo
System amount gross		2		Valuta (Year) 🛧	Valuta (Quarter) 🛧	Valuta (Month) 🛧	•			
			3 3	🗐 ear 2011		Year 2012				
				🗐 Quarter 1	📄 Quarter 2	Quarter 1	Quarter 2			🖃 Quarter 3
📄 Administrat 🛧	🖾 Settlem 🖞	🖬 🖬 State 🛛 👻	🔄 S atement 🛧	März	Juni	März	April	Mai	Juni	Juli
SWT Switzerland	Contemport Settlement Settlement	qualified		6'500.00	0.00	0.00	0.00	0.00	0.00	0.00
		🕒 paid		1'827.98	11'631.71					
	Settlement Tot	al		8'327.98	11'631.71	0.00	0.00	0.00	0.00	0.00
	Accrual	📄 paid	Trailer fee outg	6'500.00						
	old accrual	aid 📄	Trailer fee outg		10'000.00					
5WT Switzerland T	otal			14'827.98	31'631.71	0.00	0.00	0.00	0.00	0.00

Figure 19: Pivot Table on "Settlement"

Notes on the contents of the Settlement Tabs

- 1. Settlements marked with '*' are cancellations or reversals
- 2. Information that is not required can be hidden:
 - o Cancelled Settlements (Reversal)
 - Deleted Settlements (Deleted)
 - Old Accruals: This allows a later reconstruction of the accrual dates used for the data export.
- 3. Information can be aggregated or displayed extensively. In the aggregate view, the individual values are summed up and the total is displayed.

Traceability Tab

In this view, the user can trace the details of calculations performed in the past.

m:	30.12.2	006 💟 To:	31.01.201	2 🔽 Settlement: **	Trailer fee ou	itaoina - daily - au	Jarterly			Settled only	port
-											
Set	tlement 🛧										Ê
		Product 🛧									-
an	saction point	Quantity	Volume	Base foreign amount	Percent	Incentive gr	Tier rule		Condition rule		
5	ettlement: *	Trailer fee oul	going - daily -	quarterly							
k	Product: Cl	10012737752	- SWT Glo Mult	i-Alpha CHF Class							
	01.04.2011	103.0000	12'499.0500	12'499.05	22.000000	0.08	To Asset Volume=50000000.0	Percent Mgmt Fee=10.0	* Tier=VV Zürcher Ober	land; Volume=Total Volume entitled	Tier c
	04.04.2011	100.0000	12'135.0000	12'135.00	22.000000	0.07	To Asset Volume=50000000.0	Percent Mgmt Fee=10.0	* Tier=VV Zürcher Ober	land; Volume=Total Volume entitled	Tier c
	05.04.2011	102.0000	12'377.7000	12'377.70	22.000000	0.07	To Asset Volume=50000000.0	Percent Mgmt Fee=10.0	* Tier=VV Zürcher Ober	land; Volume=Total Volume entitled	Tier c
	06.04.2011	104.0000	12'620.4000	12'620.40	22.000000	0.08	To Asset Volume=50000000.0	Percent Mgmt Fee=10.0	* Tier=VV Zürcher Ober	land; Volume=Total Volume entitled	Tier c
	08.04.2011	104.0000	12'620.4000	12'620.40	22.000000	0.08	To Asset Volume=50000000.0	Percent Mgmt Fee=10.0	* Tier=VV Zürcher Ober	land; Volume=Total Volume entitled	Tier c
	07.04.2011	102.0000	12'377.7000	12'377.70	22.000000	0.07	To Asset Volume=50000000.0	Percent Mgmt Fee=10.0	* Tier=VV Zürcher Ober	land; Volume=Total Volume entitled	Tier c
	12.04.2011	105.0000	12'741.7500	12'741.75	22.000000	0.08	To Asset Volume=50000000.0	Percent Mgmt Fee=10.0	* Tier=VV Zürcher Ober	land; Volume=Total Volume entitled	Tier c
	11.04.2011	105.0000	12'741.7500	12'741.75	22.000000	0.08	To Asset Volume=50000000.0	Percent Mgmt Fee=10.0	* Tier=VV Zürcher Ober	land; Volume=Total Volume entitled	Tier c
	14.04.2011	104.0000	12'620.4000	12'620.40	22.000000	0.08	To Asset Volume=50000000.0	Percent Mgmt Fee=10.0	* Tier=VV Zürcher Ober	land; Volume=Total Volume entitled	Tier c
	13.04.2011	103.0000	12'499.0500	12'499.05	22.000000	0.08	To Asset Volume=50000000.0	Percent Mgmt Fee=10.0	* Tier=VV Zürcher Ober	land; Volume=Total Volume entitled	Tier c

Figure 20: Detail View in the "Traceability"

To review calculations, the user needs to enter the period From/To and the settlement type. Then the solution can be used to call up all the corresponding partner profiles that were settled within the selected period.

Transaction point	Weight	Product	Quantity	NAV	FX rate	Base foreign	Gross foreign	%	Entitled	Condition rule 🔨	Tier volume	Tier rule	Exclusion rule
30.06.2012	30	LU0348798009 Az RCM Thail. A EUR	30.7090	372.370000	1.000000	11'435.11	8.10	85.000000	~	* BP Absolute=85.0	0.0000		* Entitled=tru
30.06.2012	30	DE0008475005 Concentra A	827.3010	59.290000	1.000000	49'050.68	34.74	85.000000	~	* BP Absolute=85.0	0.0000		* Entitled=tru
30.04.2012	30	DE0008475062 Az Vermög. D A	472.1030	105.020000	1.000000	49'580.26	35.12	85.000000	~	* BP Absolute=85.0	0.0000		* Entitled=tru
31.05.2012	30	LU0348798009 Az RCM Thail. A EUR	30.5120	366.800000	1.000000	11'191.80	7.93	85.000000	~	* BP Absolute=85.0	0.0000		* Entitled=tra
31.05.2012	30	IE0004874099 AZ ChinaFu A.EUR	459.7550	15.310000	1.000000	7'038.85	4.99	85.000000	~	* BP Absolute=85.0	0.0000		* Entitled=tri
30.04.2012	30	IE0004874099 AZ ChinaFu A.EUR	455.3130	15.990000	1.000000	7'280.45	5.16	85.000000	~	* BP Absolute=85.0	0.0000		* Entitled=tri
30.04.2012	30	DE0008475005 Concentra A	827.3010	64.450000	1.000000	53'319.55	37.77	85.000000	~	* BP Absolute=85.0	0.0000		* Entitled=tri
30.06.2012	30	IE0004874099 AZ ChinaFu A.EUR	464.5810	15.390000	1.000000	7 149.90	5.06	85.000000	~	* BP Absolute=85.0	0.0000		* Entitled=tr

Explanation of the contents of the Traceability Tabs



- Transaction point: Time of settlement
- Weight: Identifies the interest rate standard
- **Product:** ISIN and product name
- Quantity: Quantity of the product
- NAV: Price of the product
- FX rate: Conversion factor for foreign currency
- Base foreign: Volume for the fee to be calculated in the profile currency (billing currency)
- Gross foreign: Calculated fee in the profile currency as defined in Base Foreign
- %: Effective basis points for the calculation of Gross foreign
- **Entitled:** Indicates whether or not this product has not been taken into account for the calculation
- **Condition rule:** Shows what conditions were applied for the calculation.
- Tier volume
- Tier rule: Shows the conditions related to the tier volume
- **Exclusion rule:** Shows the criteria for whether and why this product was included in the calculation

5 Rules

In this chapter the concept of Rules are discussed in order to convey to the user the meaning, handling and use of the various Rulesets. The Rules are the elements that represent a contract and that are linked to the profile (see <u>Chapter 7.1</u>). They are therefore an essential element for the calculation of fees in calculo.

The most common rulesets are represented as decision tables and the user can establish or change them in the View or the Details section (see <u>Chapter 3.4</u>).

ŧ.	Condit	ions				Acti	ions	
💊 Asset class	Reproduct	💦 Segment	Depot	🕜 Tier	🕜 Volume	Tier currency	Percent Mgmt Fee Flat	BP Absolute F
1								
2								

Figure 21: Ruleset handling

- Oelete a row
- Duplicate a row
- Ordering of rows (relevant for the "Fire First" method)

A rule consists of two parts, a condition part and an action part.

#			Conditions			Actions						
	B Depositary	💊 Asset class	🏷 Share class	실 CCY	2 Provider	Reproduct	💣 Tier	🞯 Volume	Tier currency	Percent Mgmt Fee Flat	BP Absolute Flat	
1										1.000		

In the condition part (Conditions), the user can define attributes such as product numbers or classes of products. If the condition is met, the defined action (Actions) is triggered. Per Ruleset the definition is made of what attributes pertain to the Conditions and which are relevant for the Actions.

Some actions can only be set to have a Boolean value Yes/No/Not set. For example, a flag indicating whether the product is open or closed. (Flag is set \rightarrow Yes/No). Such attributes can also be used in the Conditions, there are three options here:

Figure 22: Ruleset

- Set: If the attribute is selected in the Conditions then the attribute should be included in the calculation.
- Not set: If the attribute is not selected in the Conditions then the attribute should not be included in the calculation.
- Ignore: this flag set within Conditions means the attribute should be ignored i.e. the calculation behaves as if the attribute did not exist at all. This flag is not applicable in Actions and should therefore not occur there.

5.1 Rulesets

A Ruleset is a combination of a number of rules. In calculo, there are different types of Rulesets that are pre-configured to customer specifications. The most important ones are described in this chapter:

- 1. Exclusion
- 2. Tier / Step
- 3. Volume
- 4. Condition

5.1.1 Exclusion Ruleset

In the Exclusion Ruleset, the user can specify which of the Partner's assets will be included or excluded in the calculation of fees (= Entitled).

le set						Modified 20.05.2011 0	08:53:06, Adminis
ey figures 📕	istory						
me: Euroclea	r exclusion						Export
				litions			Actions
	🏷 Asset class	🏷 Share Class		litions	R Product	Account no	_
#	-		Con				Actions

Figure 23: Exclusion Ruleset

5.1.2 Condition Ruleset

The contractually agreed terms are defined in the Condition Ruleset. In the settlement process, each asset holding is processed in accordance with this Ruleset. If the conditions are met, then the fees will be applied.

		Conditions				Actions					
B Depositary	💊 Asset class	💊 Share class	💰 ссү	8 Provider	Reproduct	🕜 Tier	🕜 Volume	🚳 Tier currency	Percent Mgmt Fee Flat	BP Absolute Flat	

Figure 24: Condition Ruleset



For the Actions, the following options for representing the conditions are frequently used:

- Absolute basis points (bps)
- % of a fee (usually a management fee)
- Tier/Steps: Here, the following selections are mandatory:
 - the necessary Tier/Step
 - \circ the volume calculation with which the Tier allocation is verified
 - \circ the currency in which the volume is to be calculated
- Mixed form: If a Tier/Step is entered as well as a % fee and/or a fixed BP, the results are cumulative.

5.1.3 Tier/Step Ruleset

Frequently fees and commissions are volume dependent and are not based on a fixed BP or % fee. calculo has two volume-dependent condition rules:

- In one case, the entire volume is used for the fee calculation based on the **Tier**.
- In the second case, the volume is split over a number of defined **Steps** with corresponding conditions, resulting in a mixed calculation.

	Actions	Conditions			
BP Absolute	% Mgmt Fee	<=Volume	>Volume		
	2.00	1'000'000	0		
	9.00	999'999'999	1'000'000		

Figure 25: Tier/Step Ruleset

In the **Tier** case, if the partner has a volume of EUR 5 million, a management fee of 9% is applied to the entire volume.

In the **Step** case, a 2% management fee is applied to the first EUR 1 million and then the remaining volume of EUR 4 million is charged at 9%.

5.1.4 Volume Ruleset

The Volume Ruleset is a mandatory component of the Tier and Step Rulesets described above. It defines the volume which if applicable for the Tier or Step rules.

ile set					Modified 3	31.05.2011 11:45:0)1, Administr
Key figures Histor	У						
lame: Volume Clier	tA						Export

			Conditions				Action
Provider	sset class	R Product	Conditions 3 Depositary	🔒 Distributor	Account no	Entitled	
Provider	sset class	Rroduct		Distributor Client A, CL001	Account no	1	Action

Figure 26: Volume Ruleset

5.2 Execution methods

There are two methods (Execution Strategies) for the execution of rules.

"Fire First" method

With the "Fire First" approach, the first condition that is met will trigger the appropriate action. Subsequently, no further conditions will be tested and no further actions taken. The rules, (lines) have a corresponding numbering. The order of the rules in the ruleset is important for the execution. This approach also allows the definition and use of exclusions. For technical reasons, a maximum of 200 rules can be entered.

	O Deposit	Accord	Conditions set cl 🏷 Share cl 🍓 CCY		O Droui	ui 🕘 Draduct 🧐 Tiar		🔗 Volume 🍊 Tier curre		Percent Mgmt Fee	PD Abcoluto Elst	
	Opposit	-	🥥 onare ci	G CCr	4 Provi			*	-	Percent Mgmt Pee	bP Absolute Flat	
• 1		Aktienfonds					EuroInvest Aktien Tier	EuroInvest Aktien Volume	EUR			
2		Rentenfonds					EuroInvest Renten Tier	EuroInvest Renten Volume	EUR			
3		Mischfonds					EuroInvest Mischfonds	EuroInvest Mischonfds Vol	EUR			

Figure 27: "First Fire" Ruleset

"Fire All" method

The "Fire All" approach fires all the rules as soon as one of the conditions is met. Accordingly, there is no numbering of the rules.

6 Partner Settlement process

In this chapter, the individual components of the "Tasks" Component of a settlement are described. The user can review calculations, calculate, verify, modify, settle, delete or cancel. The set up described in <u>Chapter 7</u> is a requirement for calculations to be performed.

The possible process steps are always the same irrespective of the fees model. They can be individually configured and employed according to the needs of the customer. The following diagram illustrates the standard process steps available in calculo using a Trailer Fee-Out example.

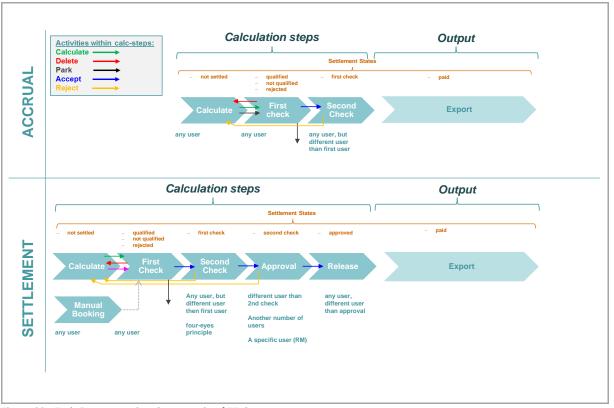


Figure 28: "Tasks" process using the example of TF-Out

Within a task, calculations can be called up via search criteria (e.g. "Value date until", "Partner type", "Administration" or "Settlement type").

6.1 Content of the individual tasks

Calculate Task

This step is the initial task for a settlement. It is used to find all the profiles eligible for calculation. They are then displayed in the details pane. Eligible for calculation means:

- The partner is active
- The profile is valid
- The calculation has not yet been done

alculate								L
/aluta until:	30.06.2012 🛛	Administration:					¢ ∑	Refresh
ettlement type:	Settlement 🛛 🔽	Relationship Manager Area:						
artner type:	🔟 Distributor 🛛 📓	Relationship Manager:					4	
ee type:	2	Partner:	🔒 Musterkunde B, Kunde	в			۵ 🖨	
Forward Partner no	↑ Name		Valuta		Partner type	and Network	🚨 Relationship	
Kunde-B	Musterkunde B		30.06.2012		Distributor		U18414 - Proval Alfons Peter	
Kunde-B	Musterkunde B		31.05.2012		Distributor		U18414 - Proval Alfons Peter	
Administration: SWT	Switzerland							
2 Trater fee outgoing	TNE	monthly			EUR			
Trater fee outgoing	TNE	monthly			CHF			
Kunde-B	Musterkunde B		30.04.2012		Distributor		U18414 - Proval Alfons Peter	
Kunde-B	Musterkunde B		31.03.2012		Distributor		U18414 - Proval Alfons Peter	
Kunde-B	Musterkunde B		29.02.2012		Distributor		U18414 - Proval Alfons Peter	
) 📃 Kunde-B	Musterkunde B		31.01.2012		Distributor		U18414 - Proval Alfons Peter	
otal: 6						2		
						Deselect all	Select all Settlement Report	Apply

Figure 29: Tasks "Calculate" Mask

- 1. Refresh: The selection is updated based on the selected Search Criteria
- 2. Deselect all / Select all: The found profiles can be further processed individually or together.

Within this task, the following activity is possible:

• Use the 'Apply' Button to start the calculation and advance to the next processing stage.

Task Clear Payment

This step is the initial task for a credit-based Trailer Fee-In Partner Settlement ("payment based"). The prerequisite is a fully-processed Accrual calculation.

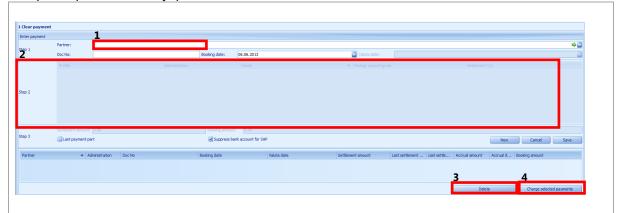


Figure 30: Tasks "Clear Payment" Mask

- 1. Doc No: User entry e.g. the invoice number
- 2. In this area, all accrual calculations that are ready to be settled will be listed.
- 3. Delete: calculations that are saved but not processed further can be deleted
- 4. Charge selected payments: All selected calculations are further processed

First Check Task

The calculation will be routed to the First Check Task. Here all the settlements calculated are shown. In this task, the validation results (Qualifications) are listed. These can be custom defined. If validation checks (Qualifications) hit problems then alerts are generated. There are two types of alert:

Soft block (orange text)

These messages can be overridden by accepting the affected settlement calculation. The settlement can be processed further. The settlement has the status "qualified".

Hard block (red text)

These messages cannot be overridden and the billing process is blocked (e.g. missing bank data or addresses). The settlement has the status "not qualified" and the user is forced to provide the missing information and delete the calculation. After providing the missing master data, the process can be restarted via the "Calculate" or "Clear Payment" Tasks.

Within this task, the following activities are available:

- Button "Accept" The settlement is further processed
- Button "Delete" Settlement will be deleted
- Button "Park" The billing process is stopped and cannot be continued

Second Check Task

In this task, the Settlement should be approved via the four-eyes principle (if activated). The user who originally started the Settlement must submit it to a second check by someone else.

Within this task, the following activities are available:

- Button "Accept" The settlement is further processed
- Button "Reject" The settlement will be returned to the task First Check stage

Approval Task

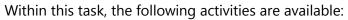
This is also an examination step, which requires that the calculation be checked and further processed by a third party.

Within this task, the following activities are available:

- Button "Accept" The settlement is further processed
- Button "Reject" The settlement will be returned to the task First Check stage.

Release Task

This step releases the calculation results. It could now be used for the export to the financial accounting system, which triggers the actual payment, but it is also possible to generate the export via a separate workflow. The system can be configured so that the calculo process ends here. On the other hand it is also possible to require a confirmation of payment from the accounting system. In this case the calculo process is not finished with this step. The possible billing statuses are described in more detail in Section 6.3.



- Button "Accept" The settlement is further processed. After this step,
 - the calculation cannot be deleted, it must be cancelled/reversed.
 - Button "Reject" The settlement process will return to the task First Check

Cancellation Task

This task has two functions which depend on the status of the settlement that you want to cancel.

- As long as a statement is not in the "released" state, it can be deleted in this step and reprocessed. A deleted settlement will be proposed for calculations in the Calculate task / Clear payment task again.
- If a settlement is in the state "released", "payment advised" or "paid" then calculo assumes that a cancellation will have an external impact. Therefore, the settlement cannot be deleted, it must be cancelled/reversed. Such cancelled/reversed settlements remain in the system until the next calculation and are usually then charged against new amounts due.

Manual Booking Task

This step can be used independently of a regular settlement calculation for ad-hoc payments, or be integrated into a future settlement calculation.

Settlement Comment

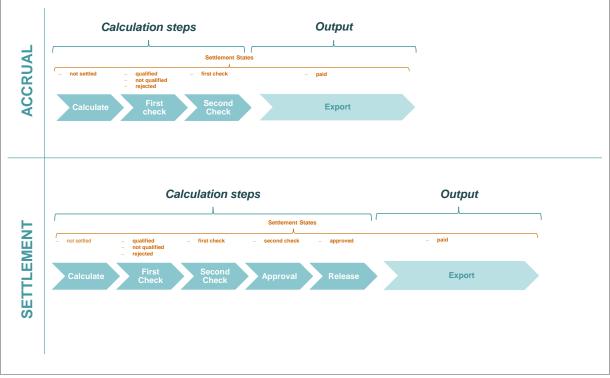
A comment can be added in the tasks "First Check", "Second Check" and/or "Approval". The comment can be for internal audit purposes or for external communications. A settlement comment can also be recorded directly at Partner level.

The internal comment forms an immutable part of the audit trail, while the external comment can be changed any time. One can configure the inclusion of the external comment in printed customer documentation.

Partner:	AGIP-240 (100415)	
Comments:	Internal comment(s): [D313-94-63 Urbd2 calculo Administrator) Partner '100415 AGIP- 2401 han zo Bank definition fund [D313-93-08 09:22108 calculo Administrator) Die fögenden Portfolios haben keine Asset Höldings zugewiesen., Partner '100415 AGIP-2401 hat keine Bank gefunden	
External comment:		
		~
Add internal comment:		
	OK Cancel	

Figure 31: Settlement Comment

6.2 States within a Settlement



The status of a settlement changes after each processing step:

Figure 32: "Tasks" states

Status	When during process	Meaning
Qualified	After "Calculate"	The Calculation was performed and all configured "Qualifications" were successfully carried out.
Not qualified	After "Calculate"	The calculation was carried out, but one or more "Qualifications" encountered problems resulting in either a warning or a blocking of the process.

Status	When during process	Meaning
First	After "First Check"	The settlement has been tested according to
checked		a defined process by an authorized user and
		is ready for further processing.
Parked	After "First Check"	The settlement process was aborted, the settlement remains in this state.
Second	After 'Second Check'	The settlement has been tested according to
checked		a defined process by an authorized user and is ready for further processing.
Approved	After, Approval '	The settlement has been tested according to
		a defined process by an authorized user and
		is ready for further processing.
Released	After "Release Payment"	The settlement can be forwarded to the
		financial accounting system (if available).
		Depending on the system set up, this state is
		held until a message is received that the
		payment has been triggered.
Payment	After "Release Payment"	Payment can be made, calculo is waiting for
advised		the confirmation of the effective payment.
Paid	After "Release Payment" —	This is the final status of a settlement in
	depending on the set-up: it	calculo.
	follows the states "Released"	
	or "Payment Advised".	
Rejected	Can appear after any step	The settlement has been tested and rejected
	when a check is performed.	by the user.

Deleted	After any step	This status can only be applied by an administrator user via the "State Change" function. As this task only takes place if a
		settlement cannot be further processed due
		to technical reasons, the deletion will be kept
		in the history for audit reasons.

6.3 Specifics about Product Settlements

The settlement set up described above is based on a partner billing scenario. As already explained, these are fees that need to be settled with a partner. Product settlements involve the calculation of fees that are charged to a specific product.

The calculation methods used for product calculations are basically the same as those for partner settlements. Defining Rulesets, Profiles and Fee Types etc. works the same way as with Partner Settlements. Using calculo is basically the same, whether a partner or a product accounting is being performed. For this reason and to avoid redundancies, this manual will not discuss the product billing process in further detail. However, we can at this point say that standard product calculations involve less Task Steps than partner calculations.

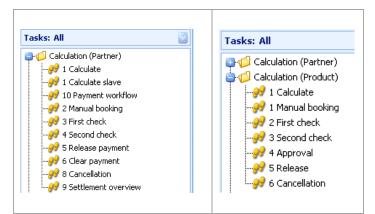


Figure 33: Task Steps Partner and Product calculations

7 Setup for the calculations

7.1 Representation of contracts in calculo

The graph below shows how the different elements are linked in calculo and how this allows a contract to be represented in the system.

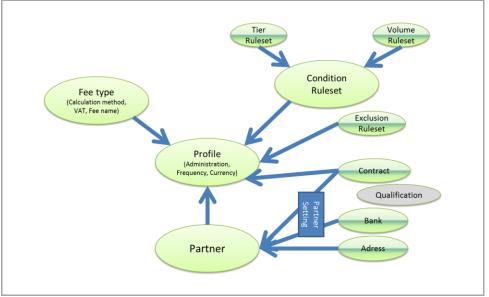


Figure 34: Contractual elements for setting up a Settlement

7.2 Fee Type

The Fee Type defines whether a Partner or Product Settlement is required. Some examples:

- A Trailer Fee is associated with Partner Settlements
- Deposit Bank Fees are associated with Product Settlements.

In calculo, the different kinds of charges are called Fee Types which can be user-defined. It is possible to configure the manner how you deal with bank holidays within calculations, the interest rate standard (Usanz) or whether a fee is subject to VAT. This configuration can only be performed by a Super User.

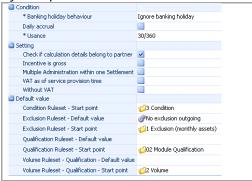


Figure 35: Settings in "Fee Type"

7.3 Setting up a Settlement calculation

The following chapter describes the necessary steps for setting up a Settlement calculation using the example of Trailer Fee outgoing.

Step 1: Setting up the conditions

The following Rulesets need to be entered.

- 1. Exclusion Ruleset (see <u>Chapter 5.1.1</u>)
- 2. Condition Ruleset (see <u>Chapter 5.1.2</u>)
- 3. Tier/Step and volume Ruleset (see Chapter 5.1.3)

Step 2: Review of Master and Transaction data

After the Rulesets have been entered, the availability of the following Partner or Product data must be checked:

- 1. Status of the Partner or Product (active or inactive)
- 2. Asset Holdings or units in the desired time period
- 3. Addresses and bank details and Contracts with the partner
- 4. Settings on partners (Ruleset)
- 5. Import data such as NAV, Product fees, FX rates, ISIN number, etc.

Step 3: Creating the Profile

As a last step, the user enters a Profile for the Partner or Product. Several profiles can be entered for each Partner / Product. Each profile is assigned to a specific process. Valid start and end dates need to be defined in order to be able to do calculations. The information on the Profile can be tailored to customer specifications. The following Profile data is mandatory:

- Administration Defines in whose name the settlement will be carried out.
- **Valid from/to:** Defines the validity of the contract. If a settlement will be valid indefinitely, the field "Valid to" can be left empty.
- **Fee Type** Here the user selects the Fee Type for settlement (see <u>Chapter 7.2</u>)
- **Frequency** Sets the billing interval (monthly, quarterly, semi-annually or annually).
- Ccy Defines the Profile currency
- **Contract** The "Contract" is the reference to the agreement between a partner or product and a beneficiary. Important: before a contract is assigned to a profile, it must be already entered in two places: the "Contract" tab of the partner / product and in the "Settings" tab.

A new profile is entered via the context menu in the "View" of the "Profile" tab of the partner or the product. In the profile, the user can fill the corresponding columns with information. This data can either be selected or entered manually depending on the column type.

Allocation of the Condition and Exclusion Rulesets to the Profile completes the setup of a calculation.

dministration	•	Valid from	¥	Valid to	Accrual	Settlem	📲 Fee type	💊 Frequency	oli	💋 Contract	
SWT Germany					~	~					

Trailer fee outgoing											
Condition		-(D.=.		16							_
* Condition Ruleset				ard fee							9
* Exclusion Ruleset		@No	excl	usion outgoing							
Qualification Rulese											
Volume Ruleset - Qu	alificat	tion									
😑 Limit											
Maximum payment a	mount										
All designs and the second second	nount										
Minimum payment a											

Figure 36: "Profile" Tab Mask

8 Reports

calculo has a number of standard reports.

- All Rights
- Audit
- History
- Not anonymized attributes
- Report List
- Role rights
- User roles
- User roles mandate
- User signatures
- User signatures mandate
- User trail
- Contract
- Partners
- Product
- Relationship manager login
- Unused combination

Partner Settlement:

- Asset holding
- Asset holding compare
- Asset holding Entitled
- Asset holding quota
- Asset holding summary
- Asset holding depositary summary
- Asset Holding User report
- Asset holding year
- Asset holding net inflow
- Assigned conditions
- Contract profiles
- Control accrual
- Partners conditions
- Partners conditions Excel
- Partners conditions shortlist
- Partners conditions shortlist Excel
- Partners conditions to template
- Partners threshold watchlist
- Trailer fairy dependent rules
- Trailer fairy reminder list

Product Billing:

- Contract products
- Product condition

Using the Report Designer, reports can also be custom defined and implemented in a very flexible manner.

eport						м	odified 14.12.2009 18:47:	59, ModificationUser: 11388
Key figure Detail Facts	Lookup Facts							
Name: A	Asset holding					Default Language:	😑 German (Germany)	
older:	🕼 Master data					Report Type:	List	
fain Type: R	RP ProductAssetHolding					Activity folder:	Report activities	
untere second anti-thus a	en anuakan sala da sanast AssattishtinaDanastAsti.							
stem report activity:	y: com.sowatec.calculo.report.AssetHoldingReportActivity					Suppress empty r	Suppress empty report	
Name	Class	FactType	Length Precision	Position	↑ Is ar	тау	Required	Enumeration
			Length Predsion	Position		тау	Required	Enumeration
Language	Class Object Object	FeetType El targuinge Report la yout	Length Precision 0	Position 0	↑ Is ar 0 1		Required	Enumeration
anguage ayout	Object	I Language	0	0	0			Enumeration
.anguage .ayout Reset Page count	Object Object	ReportLayout	0	0	0			
Language Layout Reset Page count Output Format	Object Object Boolean	Impuage Impact Agent Age	0	0 0 0	0 1 2			
Language Layout Reset Page count Output Format Administration Partner Type	Object Object Boolean String Object Object	Enguage Reports yout	0 0 0 20	0 0 0	0 1 2 3 4 5			
Language Layout Reset Page count Output Format Administration Partner Type Partner	Object Object Boolean String Object Object Object	Anguage Report.syout Administration PartnerType Partner		0 0 0 0 0 0	0 1 2 3 4 5 6			
Language Layout Reset Page count Output Format Administration Partner Type	Object Object Boolean String Object Object	Enguage Reports yout	0 0 20 0 0	0 0 0 0	0 1 2 3 4 5			Enumeration

Figure 37: "Report Designer" Component

A report can be executed in several ways:

- Direct Print Reports from the pivot table: A right mouse click selects the report and generates a .pdf document in the BAM
- From the Tasks Steps: Reports can be set up in that way that they are generated directly within the billing process. For example, the credit note to a customer. These reports are generated as .pdf documents in the BAM
- From the report engine: In the "Reports" component all available reports can be generated using the report-specific filter criteria and parameters. The results are generated as .xls or .pdf documents in BAM.

9 Data Exchange / Workflows

In calculo, the user has the ability to import or export transaction and master data. Activities for the exchange of data are found in the "Workflow" Component. These can then be performed automatically at defined times or manually.

Vorkflow			
	Montag, 23. Dezember		Donnerstag, 26. Dezember
к 2	Dienstag, 24. Dezember		Freitag, 27. Dezem
Produce Appointment.	Uidistay, 24. vezenivei		Hendy, 27, Deckin v
	Mittwoch, 25. Dezember		Samstag, 28. Dezem
	_		Sonntag, 29. Dezember
SAP export			
G Filter			
* SAP Location	France, Germany, United King	dom	
Copy and rename workflow files			
scription:			
ct Execution Log Usage		Start as user: Log Level:	WARN Execute
wa 29: Component Worlflow"			

Figure 38: Component "Workflow"

The "Fact" Tab includes the following information:

- Scheduler: A Workflow can be performed at intervals defined by the customer. It is also possible to set filter criteria which changes the output accordingly.
- The log level settings can be selected as required. The higher the log level is set, the more information is stored in the log files. Higher log levels result in correspondingly longer execution times:
 - o Information
 - o Error
 - o Warning
 - \circ Trace
 - \circ Debug

Time	↓ Status	Originator	Scenario	Log files	
14.02.2011 13:04:01	Completed (Duration: 00:48)	Business User	Productiv	🗐 Log	
14.02.2011 13:02:50	Completed (Duration: 00:11)	Business User	Productiv		
14.02.2011 07:48:09	Error (Duration: 00:22)	Andreas Hütt	Productiv	🗐 Error Log 🔋 Log	
14.02.2011 07:47:22	Completed (Duration: 00:01)	Andreas Hütt	Productiv		

Figure 39: Tab "Execution Log"

- The log files of the performed Workflows are stored under the "Execution Log" tab.
- Information regarding time and status of the most recently started workflows is also available here.

Note: Remember the Business Activity Monitor (BAM) (see Section 2.5). In the BAM all information regarding the Workflow activities are available to the user until it has been deleted.

10 Glossary & Acronyms

Term	Description
Accrual	Timely accruals (fee calculation based on estimates) for the financial accounting.
Activity	Process with a start and an end time. One or more activities can be combined into workflows
Attribute	In Data Management, an attribute is a structural expression of an object class. For example, Fact Type = "Currency" has the attributes = "Name", "ISO", "Exchange Rate"
AuM	Assets under Management
BRM	Business Rules Management
calculo	Software for rule-based fees management
EAM	External Asset Management
MIS	Management Information System
NAV	Net Asset Value
Settlement	Regular settlement of fees with a Partner or Product