

**How-to Guide
SAP CPM**



How To... Setup an InterCompany Matching Application in SAP BPC

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**Applicable Releases:
SAP BPC 5.x, SAP BPC 7.0 (MS)**

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1 (Business) Scenario

The Intercompany Matching process is a pre-requisite for a financial consolidation. This process will allow entities to match their intercompany balances against the values entered by their counterparts.

The output of this process is a report that lists the intercompany matches and differences. These intercompany differences can then be booked automatically according to specific rules.

2 Introduction

This document will guide you through the necessary steps to setup a basic Intercompany Matching application, starting on a copy of Apshell.

The following steps are generally part of an Intercompany Matching process (BPC functionality / component used is specified in brackets)

1. Data collection in Local currency (Input Schedules or data import)
2. Translation of input data into the Matching Currency (SPRunConversion)
3. Creation of the data required for Matching (SPICData)
4. Intercompany Matching Reports to identify the mismatches (Reports)
5. Automatic Booking of Intercompany Matching differences (SPICBooking)

Two dimensions are key for the matching process

1. Datasrc (Dimension Type)
2. Account (Dimension Type)

The Datasrc dimension will be used to make the amounts entered by an Intercompany counterpart available to an entity. An entity is normally only allowed to see their figures because of the security settings, the idea here is to copy the values entered by the Intercompany Counterpart to the entity, so that the entity can see the input of the

Intercompany Counterpart against them. These two values need to be kept separated and this is exactly the purpose of the Datasrc dimension.

2.1 Business Example

2.1.1 Intercompany Matching

A German Entity (CGD) has a loan of 100 EUR against an American Entity (CGUSA). CGD has entered 100 (in local and transaction currency) on “AS27480000 – Other Loans” against I_CGUSA. CGUSA has entered 120 in Local Currency (USD) and 100 in Transaction Currency on Account “LI16870000 – Other Debts” against I_CGD (I_CGD and I_CGUSA are the intercompany members corresponding to CGD and CGUSA).

Entity	Intco	Account	Datasrc	Trn CCY	Value LC	Value TC
CGD	I_CGUSA	AS27480000	Input	EUR	100	100
CGUSA	I_CGD	LI16870000	Input	EUR	120	100

The first step is to translate the amounts entered in local currency into the Group Currency (EUR in this example). An EUR/USD Exchange Rate of 1,25 is used in that example.

Entity	Intco	Account	Datasrc	Trn CCY	Value EUR	Value TC
CGD	I_CGUSA	AS27480000	Input	EUR	100	100
CGUSA	I_CGD	LI16870000	Input	EUR	96	100

The IC Matching process (SPICData) does then generate 4 new records on four different Datasrc, according to the following Datasrc structure:

- Total 1
 - Debit 1 : Asset or Income type account amount
 - Credit 1 : Liabilities or Expense type account (with reversed Entity / Intercompany)
- Total 2
 - Debit 2 : Asset or Income type account amount (with reversed Entity / Intercompany)
 - Credit 2 : Liabilities or Expense type account

This process will generate the 4 records highlighted in grey and dark green.

Entity	Intco	Account	Datasrc	Trn CCY	Value EUR	Value TC
CGD	I_CGUSA	AS27480000	Input	EUR	100	100
CGD	I_CGUSA	AS27480000	Debit 1	EUR	100	100
CGUSA	I_CGD	AS27480000	Debit 2	EUR	100	100
CGUSA	I_CGD	LI16870000	Input	EUR	96	100
CGD	I_CGUSA	LI16870000	Credit 1	EUR	96	100
CGUSA	I_CGD	LI16870000	Credit 2	EUR	96	100

These records are generated according to the following rules:

- An Asset or Income type account will generate one record on Debit 1 and a second record with inverted Entity / Intercompany on Debit 2.
- A Liability or Expense type account will generate one record with inverted Entity / Intercompany on Credit 1 and a second record on Credit 2

It is easier to analyze the records generated in the previous step, when these records are grouped by Entity / Intercompany.

Entity	Intco	Account	Datasrc	Trn CCY	Value EUR	Value TC
CGD	I_CGUSA	AS27480000	Debit 1	EUR	100	100
CGD	I_CGUSA	LI16870000	Credit 1	EUR	96	100
CGUSA	I_CGD	AS27480000	Debit 2	EUR	100	100
CGUSA	I_CGD	LI16870000	Credit 2	EUR	96	100

The following reports show what the users of the Entity CGD and CGUSA will see.

For Entity CGD (DEBIT2 / CREDIT2 columns are empty)

EUR DEBIT1	EUR CREDIT1	EUR TOTAL1	TC DEBIT1	TC CREDIT1	TC TOTAL1
Euro	Euro	Euro	Transaction Currency	Transaction Currency	Transaction Currency
My Asset / Income	Their Liabilities / Expense	Total 1	My Asset / Income	Their Liabilities / Expense	Total 1
CTLICEND00	I_CGUSA	T_EUR	Intercompany Long Term	CG USA	Euro
100.00	(96.00)	4.00	100.00	(100.00)	

For Entity CGUSA (DEBIT1 / CREDIT1 columns are empty):

EUR	EUR	EUR	TC	TC	TC
DEBIT2	CREDIT2	TOTAL2	DEBIT2	CREDIT2	TOTAL2
Euro	Euro	Euro	Transaction	Transaction	Transaction
Their Asset /	My Liabilities /	Total 2	Currency	Currency	Currency
Income	Expense		Their Asset /	My Liabilities /	Total 2
			Income	Expense	
CTLICEND00	I_CGD	T_EUR	Intercompany Long Term	CG Germ-Euro	
	100.00	(96.00)	4.00	100.00	(100.00)

The Intercompany Matching process required a specific roll-up of the intercompany accounts, in that example:

- IC Balance Sheet Short Term
 - Short Term Receivables
 - Accounts Receivables
 - Short Term Payables
 - Accounts Payables

There could also be several Accounts under the Short Term Receivables and Payables parents. “IC Balance Sheet Short Term” is then referred to as a “Matching Group”, and there can be as many of these Groups as required (like “Balance Sheet Long Term”, “P&L Operational”,...)

2.1.2 Booking of matching differences

The difference of 4.00 can be corrected manually by one of the entity (by correcting their input) or a central process can be run to book the differences according to specific rules. SPICBooking is used for exactly that purpose and the Business Rules table “Intercompany Booking” requires the following input:

- Destination Datasrc (to which Datasrc the difference should be posted)
- Matching Account (IC Balance Sheet Short Term in this example)
- Rules (Seller, Buyer or Biggest Amount)
- Maximum Amount to be booked
- Debit Account / Flow and Intercompany
- Credit Account / Flow and Intercompany

The Business Rules table “Intercompany Booking” has the following settings:

Rules	Parent Matching Account	Dest. Datasrc	Max Amount	Debit Acc.	Debit Flow	Debit Intco	Credit Acc.	Credit Flow	Credit Intco
Seller Rule	CTLICEND00	ICDIFF	0	LI16870000		F_CLO	IC_DIFF01	F_CLO	I_NONE

The following records are generated:

Entity	Intco	Account	Datasrc	Trn CCY	Value EUR
CGUSA	I_CGD	LI16870000	ICDIFF	EUR	4
CGUSA	I_NONE	IC_DIFF01	ICDIFF	EUR	4

As the “Seller” rule was selected, the difference is booked on CGUSA (the entity with the Liability account)

2.2 General Comments

- The dimension names used in this document are not mandatory. BPC uses the dimension types to identify dimensions, the dimension name can be set as required
- The “Transaction Currency” dimension is not mandatory for IC Matching / IC Booking. If you don’t plan to use it, you can skip that dimension.
- The IC Booking will only work after the IC Data process has been run
- In this example, the Datasrc and Account type dimensions are not shared between the Legal and ICMatching application, but they could also be shared.
- In this how-to guide, the IC Matching process is performed in a separate application. This feature could also be performed directly in the “Legal” application.

2.3 Pre-requisites

- Security setup with full access to all tasks and all existing applications
- Exchange Rates (AVG and END) for the period that will be used for IC Matching
- Entity dimension with defined INTCO property (no changes required if you use a copy of Apshell)
- Intco dimension with defined ENTITY property no changes required if you use a copy of Apshell)

2.4 Overview of Step by step guide

The following will be covered in this how to guide:

- Create / Update dimensions and properties
- Create application and set “Application Parameters”

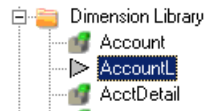
- Setup of Security
- Update “Default” and “ICElim” logics
- Setup “Currency Conversion” and “IC Booking” Business Rules
- Create Intercompany Input Schedule
- Create Intercompany Matching Report
- Test the setup

3 The Step By Step Solution

As a starting point, you need to log into an appset that is a copy of Apshell and you also need to make sure that you have full access to all applications and tasks

3.1 Creating new ICAccount and ICDataSrc dimensions

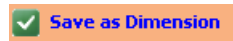
1. In the Admin Console, Open the “Dimension Library” and highlight the dimension “AccountL”.



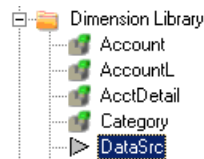
2. Select “Copy a dimension” from the Action Pane.



3. Enter “ICAccount” as Name and description, then click “Save as dimension”



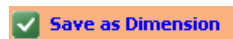
4. In the Admin Console, Open the “Dimension Library” and highlight the dimension “DataSrc”.



5. Select “Copy a dimension” from the Action Pane.



6. Enter “ICDataSrc” as Name and description, then click “Save as dimension”



7. In the Admin Console, Open the “Dimension Library” and highlight the dimension “ICDataSrc”.



8. Select “Maintain dimension property” from the “Action Pane”

ICDataSrc Dimension View

[Maintain dimension property](#)

9. Add the following property:

- IC_ORIGINE (size of 2), not in app



10. Select “Modify Dimension Property” in the “Action Pane” to save changes

[→ Modify Dimension Property](#)

3.2 Define Content of ICAccount and ICDataSrc dimensions

11. In the Admin Console, Open the “Dimension Library” and highlight the dimension “ICAccount”.



12. Select “Maintain dimension members” from the “Action Pane”

[Maintain dimension members](#)

13. Update Member sheet according to the following print screen (leave all the other columns blank, do not delete the existing column headers). For this example, perform the following actions:

ID	HEWID	EVDESCRIPTION	PARENTH1	GROUP	ACCTYPE	RATETYPE	PINTCO
AS23700000		Advances on Intangible assets	CTLICEND01	BSA	AST	ENDFLOW	Y
AS23800000		Advances on tangible assets	CTLICEND01	BSA	AST	ENDFLOW	Y
AS41100000		Trade notes and accounts receivable	CTLICBFR01	BSA	AST	ENDFLOW	Y
AS40971000		Suppliers - Debit Notes	CTLICBFR01	BSA	AST	ENDFLOW	Y
L16800000		Deposits received	CTLICEND02	BSL	LEQ	ENDFLOW	Y
L16870000		Other Debts	CTLICEND02	BSL	LEQ	ENDFLOW	Y
LH45120000		Subsidiaries: Current Account Credit Balance	CTLICEND02	BSL	LEQ	ENDFLOW	Y
L44910000		Customers : advances	CTLICBFR02	BSL	LEQ	ENDFLOW	Y
LH01100000		Suppliers	CTLICBFR02	BSL	LEQ	ENDFLOW	Y
PL70700000		Sales of goods for resale	CTLICEXP01	PL	INC	AVG	Y
PL68000000		Other operating expenses	CTLICEXP02	PL	EXP	AVG	Y
CTLICIS0000		Intercompany Check TOTAL			AST		
CTLICBFR00		Intercompany Short Term	CTLICIS0000		AST		S
CTLICBFR01		Intercompany Short Term : Receivables	CTLICBFR00		AST		
CTLICBFR02		Intercompany Short Term : Payables	CTLICBFR00		LEQ		
CTLICEND00		Intercompany Long Term	CTLICIS0000		AST		S
CTLICEND01		Intercompany Long Term : Receivables	CTLICEND00		AST		
CTLICEND02		Intercompany Long Term : Payables	CTLICEND00		LEQ		
CTLICEXP00		Intercompany operating	CTLICIS0000		INC		S
CTLICEXP01		Intercompany operating : Revenues	CTLICEXP00		INC		
CTLICEXP02		Intercompany operating : Expenses	CTLICEXP00		EXP		

- Delete the column PARENTH1 and PARENTH2 and rename PARENTH3 into ParentH1
- Delete the columns FORMULAH1 and FORMULAH2 and rename FORMULAH3 into FORMULA (delete all content of that column)
- Only keep the account in the P&L and Balance Sheet that have the property PINTCO set to “Y” and all the accounts that start with CTLIC...
- Remove all the “Y” for the “PINTCO” property of the CTLIC... accounts
- Set the property PINTCO to “S” for the CTLIC... accounts that end with “00”.

14. Select “Save to Server” from the “Action Pane”

[Save to Server](#)

15. Select “Process dimension” from the Action Pane

[Process dimension](#)

16. Click “OK” to start the dimension processing

17. In the Admin Console, Open the “Dimension Library” and select “ICDataSrc”.



18. Select “Maintain dimension members” from the “Action Pane”

[Maintain dimension members](#)

19. Update Member sheet according to the following print screen (leave all the other columns blank, do not delete the existing column headers)

ID	NEWID	EVDESCRIPTION	PARENTH1	IS_CONVERTED	IC_ORIGINE	DATASRC_TYPE
INPUT		Company Input		Y	I	I
TOTAL1						
DEBIT1		My Asset / Income	TOTAL1	N	D	
CREDIT1		Their Liabilities / Expense	TOTAL1	N	C	
TOTAL2						
DEBIT2		Their Asset / Income	TOTAL2	N	D2	
CREDIT2		My Liabilities / Expense	TOTAL2	N	C2	
ICDIFF		Intercompany Difference Datasrc		G		

20. Select “Save to Server” from the “Action Pane”

[Save to Server](#)

21. Select “Process dimension” from the Action Pane

[Process dimension](#)

22. Click “OK” to start the dimension processing

23. Select “Dimension Library” and then “Add a new dimension” in the Action Pane

[Add a new dimension](#)

24. Enter “TrnCurrency” and the appropriate description and click on “Go to Step 2 of 3”

What is the new Dimension name?

What is the new Dimension description?

25. Select the Type “U – Userdefined” and click on “Go to Step 3 of 3”

Dimension Type

26. Add a new property called "CURRENCY" with a size of 20 and click on "Add a new dimension"

4 CURRENCY 20 □

27. Open the "Dimension Library" and select "TrnCurrenCy".



28. Select "Maintain dimension members" from the "Action Pane"

[Maintain dimension members](#)

29. Enter the following members

ID	NEWID	EYDESCRIPTION	PARENTH1	SCALING	CURRENCY
T_ALL		All Transaction Currencies			
T_EUR		Euro	T_ALL		EUR
T_USD		US Dollar	T_ALL		USD
T_GBP		Great Britain Pound	T_ALL		GBP
T_NONE		No currency			

30. Select "Save to Server" from the "Action Pane"

[Save to Server](#)

31. Select "Process dimension" from the Action Pane

[Process dimension](#)

3.3 Create ICMatching Application and define security

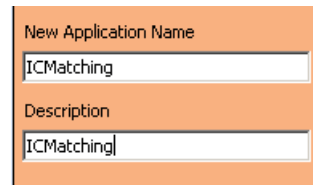
32. In the Admin Console, Select “Application”



33. Select “Add a new application” from the “Action Pane”

[Add a new application](#)

34. Enter Application Name and Description and click on “Go to step 2 of 4”



New Application Name
ICMatching

Description
ICMatching

35. Select “Financial” as application type and click on “Go to step 3 of 4”



Reporting Type

Generic

Financial

Consolidation

36. Select “LegapApp” as source application, add the Business Rules Table “Intercompany Bookings” and click on “Go to step 4 of 4”



Select Source Application

LegalApp

Business rules tables:

Currency conversion rules

Account transformation

Intercompany Bookings

37. Remove tick from the “Dimensions” check box and click on “Add a new application”



Dimensions

38. Select the following dimensions in your application and click on “Add a new application” (and secure the LegalEntity dimension)

AppSet Dimension	Type	Secure	R/W
AcctDetail	S		
Category	C	Y	Y
Groups	R		
IntCoL	I		
LegalEntity	E	Y	Y
Time	T		
ICAccount	A		
ICDataSrc	D		
TrnCurrency	U1		

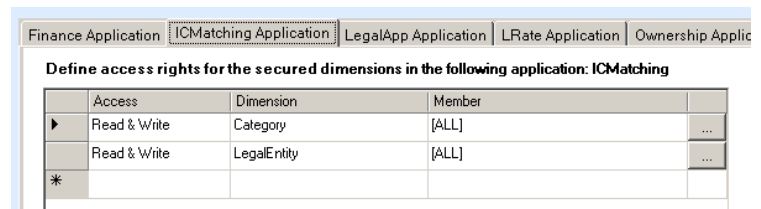
39. In the Admin Console, Open the “Member Access Profiles” and select “AdminMbrAccPrf”.



40. Select “Modify member access profile” from the “Action Pane

AdminMbrAccPrf Tasks
[Modify member access profile](#)

41. Click “Next” and select the “ICMatching Application” tab. Enter the following content



42. Click “Next”, “Next” and finally “Apply”

43. In the “BPC Administration” webpage, select “Application Parameters” (Please check that the application “ICMatching” is selected in the Current View.

Web Admin Tasks
[Set AppSet Parameters](#)
[Set Application Parameters](#)

44. Change the parameter “YTDINPUT” to “Yes”

YTDINPUT

45. Click “Update” to save changes

46. In the Admin Console, Select the "ICMatching" application



47. Select "Modify application" from the "Action Pane"

[Modify application](#)

48. Select again "Modify application" from the "Action Pane"



49. Select the name of your appset at the top of the list



50. Select "Set application set status" from the Action Pane

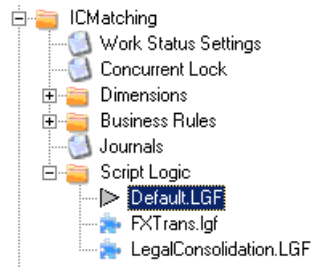
[Set application set status](#)

51. Set the status to "available" and click on "Update application set status"



3.4 Setup Script Logics and Business Rules Tables

52. In the Admin Console, Open the “Script Logic” folder and select “Default.lgf”



53. Edit the default logic with the following content

```

=====
// Currency translation logic
=====
*RUN_STORED_PROCEDURE=SPRUNCONVERSION(%APP%;%CATEGORY_SET%;'GLOBAL';%SCOPETABLE%;%LOGTABLE%)

// IC Data
=====
*RUN_STORED_PROCEDURE = SPICDATA (%APP%;%CATEGORY_SET%;%TIME_SET%;EUR)
*RUN_STORED_PROCEDURE = SPICDATA (%APP%;%CATEGORY_SET%;%TIME_SET%;TC)
*COMMIT
    
```

54. Select “Validate and Save” in the “Action Pane”

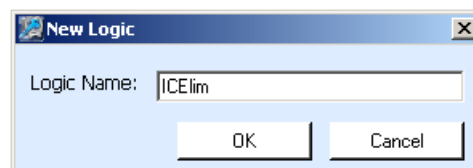
Default.LGF Task
[Validate Only](#)
[Validate and Save](#)

55. In the Admin Console, Select “Script Logic”



56. Select “Create New Logic” in the Action Pane and Enter “ICElim” as Name, then press “OK”. You could of course create a specific logic for IC Booking here, but there would not be a DTS/SSIS package available. We re-use the ICElim package that is already existing and not used in

[Create New Logic](#)



the ICMatching application.

57. Edit the default logic with the following content

```

=====
// IC Booking
=====

*RUN_STORED_PROCEDURE = SPICBOOKING (%APP%,%CATEGORY_SET%,%TIME_SET%,EUR,,"GROUPS=EUR)
*COMMIT
    
```

58. Select “Validate and Save” in the “Action Pane”

Default.LGF Task
[Validate Only](#)
[Validate and Save](#)

59. In the Admin Console, Open the “Business Rules” folder and select “Currency conversion rules”



60. Update the content of the table to match the print screen on the right

	Account rate type	Source flow	Destination account	Destination flow	Formul
	AVG	[AVG]
▶	ENDFLOW	[END]
*					

61. Select “Save without validation” and “Validate Currency Conversion rules rule table” from the “Action Pane”

[Save without validation](#)
[Validate Currency conversion rules rule table](#)

62. In the Admin Console, Open the “Business Rules” folder and select “Intercompany booking”



63. Update the content of the table to match the print screen on the right

Rules	Parent Matching Account	Dest. DataSrc	Max Amount	Debit Acc.	Debit Flow	Debit Intco	Credit Acc.	Credit Flow	Credit Intco
Seller Rule	CTLICEND00	ICDIFF	0	LI16870000		F_CLO	IC_DIFF01	F_CLO	I_NONE

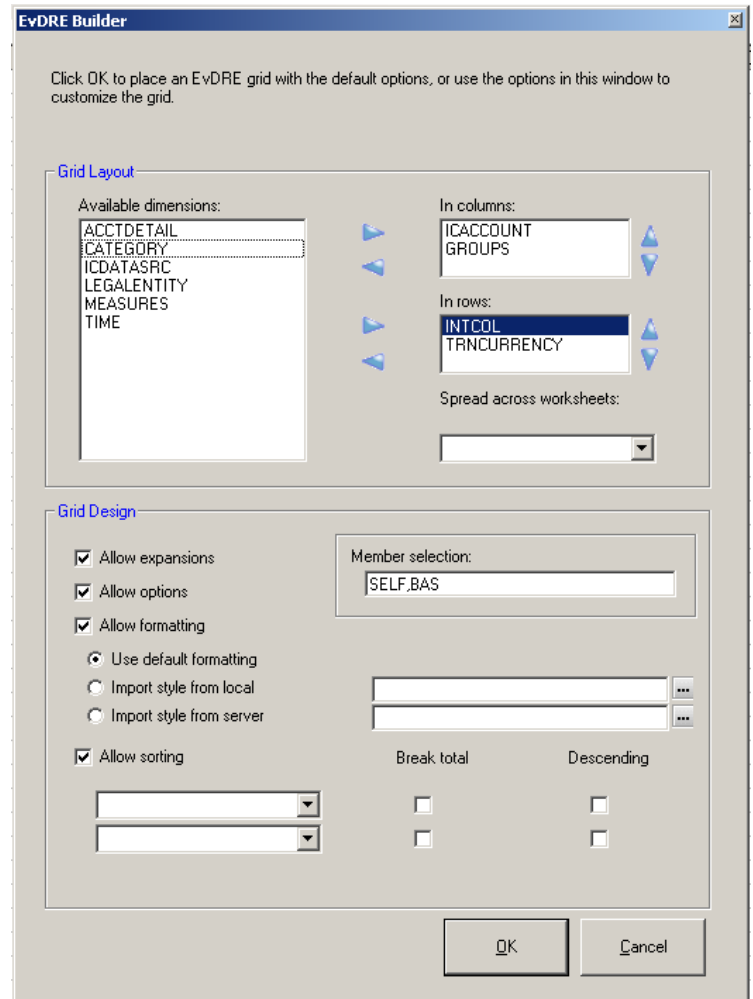
64. Select “Save without validation” and “Validate Intercompany booking rule table” from the “Action Pane”

[Save without validation](#)

[Validate Intercompany booking rule table](#)

3.5 Create an Input Schedule to enter data

65. Open BPC for Excel and create a new EVDRE report with the following settings



66. Set the following Parameters

Formula for "Insert" on Expansion 3 /
 Insert := "BAS("&\$I\$8&")"

Formula for "Insert" on Expansion 4 /
 Insert := "BAS("&\$I\$12&")"

PARAMETER	EXPANSION 1	EXPANSION 2	EXPANSION 3	EXPANSION 4
ExpandIn	COL	COL	ROW	ROW
Dimension	ICACCOUNT	GROUPS	INTCOL	TRNCURRENCY
MemberSet	SELF_BAS	LC,TC	SELF_BAS	SELF_BAS
BeforeRange				
Suppress			Y	Y
Insert			BAS(All_InterCo)	BAS(T_ALL)

67. Set the following "Worksheet Dimension Lock Options"

<input type="checkbox"/>	Application:	ICMATCHING
<input checked="" type="checkbox"/>	Acctdetail:	F_CLO
<input type="checkbox"/>	Category:	ACTUAL
<input checked="" type="checkbox"/>	Groups:	LC
<input checked="" type="checkbox"/>	Intcol:	Inp_Interco
<input type="checkbox"/>	Legality:	CGGROUP
<input type="checkbox"/>	Time:	2005.TOTAL
<input type="checkbox"/>	Iccount:	CTLICBFR00
<input checked="" type="checkbox"/>	Icdatasrc:	INPUT
<input checked="" type="checkbox"/>	Trncurrency:	T_ALL
<input checked="" type="checkbox"/>	Measures:	YTD

68. Set the following "Workbook Options"

Type:	Input Schedule
Refresh options:	
<input checked="" type="checkbox"/>	Refresh workbook on worksheet update
<input checked="" type="checkbox"/>	Refresh workbook on workbook open
<input checked="" type="checkbox"/>	Refresh after data send
<input checked="" type="checkbox"/>	Expand on workbook open
<input checked="" type="checkbox"/>	Expand on CurrentView change
<input type="checkbox"/>	EVDRE: Refresh by sheet

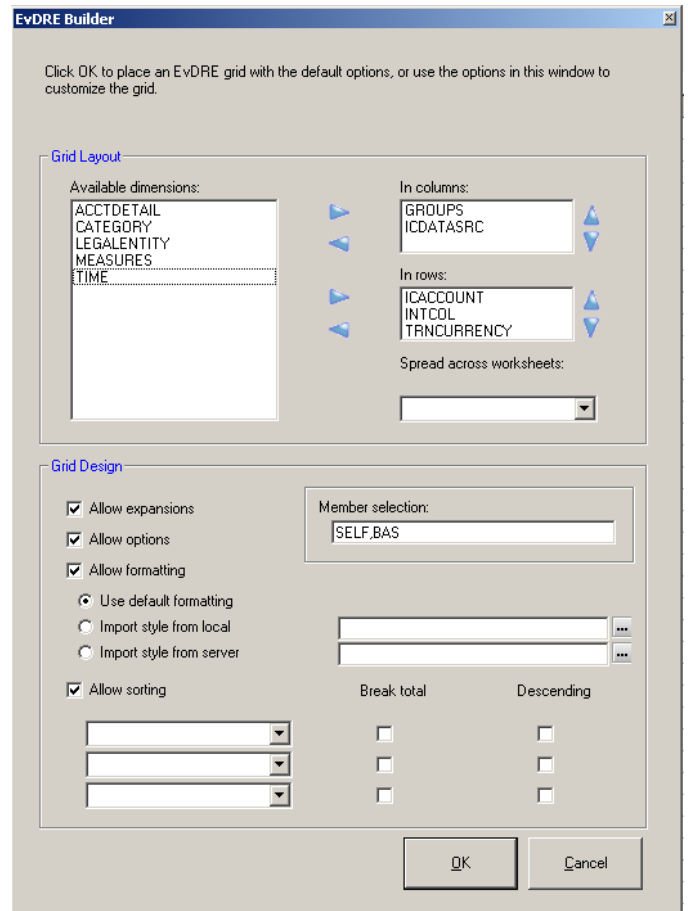
69. Click "Expand all", you report should look like the following one (only the first two columns are shown in this print screen)

App	ICMATCHING	ICMatching
ACCTDET#	F_CLO	Closing balance
CATEGORY	ACTUAL	Actual from GL
GROUPS	LC	Local Currency
ICACCOUH	CTLICBFR00	Intercompany Short Term
ICDATASR	INPUT	Company Input
INTCOL	Inp_Interco	All Input Inter-company
LEGALENTI	CGF	CG France
MEASURES	YTD	Year to Date
TIME	2005.DEC	2005 DEC
TRNCURREIT	_ALL	All Transaction Currencies

CTLICBFR00	CTLICBFR00
LC	TC
Intercompany Short Term Local Currency	Intercompany Short Term Transaction Currency

3.6 Create an IC Matching Report (for a single entity)

70. Open BPC for Excel and create a new EVDRE report with the following settings



71. Set the following Parameters

The full MemberSet of Expansion 2 is :
 BAS(TOTAL1),TOTAL1|BAS(TOTAL2),
 TOTAL2

N.B. To display the individual accounts,
 the following MemberSet should be
 used for the "Expansion 2":

ALL HLEVEL<>3,PARENTAFTER

PARAMETER	EXPANSION 1	EXPANSION 2	EXPANSION 3	EXPANSION 4	EXPANSION 5
ExpandIn	COL	COL	ROW	ROW	ROW
Dimension	GROUPS	ICDATASRC	ICACCOUNT	INTCOL	TRNCURRENCY
MemberSet	EUR,TC	BAS(TOTAL1), TDEP		BAS	BAS
BeforeRange					
AfterRange					
Suppress			Y	Y	Y
Insert					

72. Unhide hidden column if your report (if you have any hidden column) and copy the content of the last two key and header columns to blank columns on the right

LC
INPUT
Local Currency
Company Input
(120.00)
(120.00)

LC	LC
INPUT	INPUT
Local Currency	Local Currency
Company Input	Company Input
(120.00)	
(120.00)	

73. Select the Formula in the “ColKeyRange” cell, click in the “fx” button to open the formula editor.

SUM X ✓ fx =EVRNG(N14:O15)

1	.	.	.
2	.	.	.
	A	B	C
1	#ERR: Memberset (or flag) count does not match I		
2			
3	RANGE	VALUE	
4	PageKeyRange	Sheet1!\$3:\$12	
5	ColKeyRange	=EVRNG(N14:O15)	

Select the empty “Range2” and select the four cells you copied in the previous step (P14:Q15 in my example)

Function Arguments

EVRNG

Range1 N14:O15 = {"LC","INPUT",0}

Range2 P14:Q15 = {"LC","INPUT",0}

Range3 =

Used to define ranges as function parameters.

Range2 = "Sheet1!\$N\$14:\$O\$15,Shi

Formula result = Sheet1!\$N\$14:\$O\$15,Shi

OK Cancel

LC	LC
INPUT	INPUT
Local Currency	Local Currency
Company Input	Company Input
(120.00)	
(120.00)	
(120.00)	
(120.00)	

74. Update the formula table to the following. The value “COL” was added for the EVALUATE IN column for the row starting with “CALC”

CRITERIA	EVALUATE IN	FORMAT	USE	PARAMETERS	APPLY TO
DEFAULT		12,345.00			DATA
DEFAULT			PATTERN		KEY
DEFAULT					HEADING
INPUT			LOCK		DATA
CALC	COL	12,345.00			DATA

75. Set the following “Worksheet Dimension Lock Options”

<input type="checkbox"/> Application:	ICMATCHING
<input checked="" type="checkbox"/> Acctdetail:	F_CLO
<input type="checkbox"/> Category:	ACTUAL
<input checked="" type="checkbox"/> Groups:	LC
<input checked="" type="checkbox"/> Iccount:	CTLCIS0000
<input checked="" type="checkbox"/> Icdatasrc:	INPUT
<input checked="" type="checkbox"/> Intcol:	Inp_Interco
<input type="checkbox"/> Legality:	CGF
<input type="checkbox"/> Time:	2005.DEC
<input checked="" type="checkbox"/> Trncurrency:	T_ALL
<input checked="" type="checkbox"/> Measures:	YTD

76. Update the Formatting table to the following

CRITERIA	EVALUATE IN	FORMAT	USE	PARAMETERS	APPLY TO
DEFAULT		12,345.00			DATA
DEFAULT			PATTERN		KEY
DEFAULT					HEADING
INPUT			LOCK		DATA
CALC	COL	12,345.00			DATA

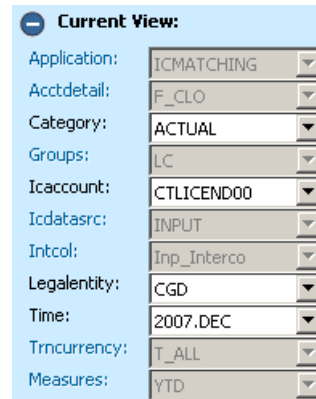
77. Click “Expand all”, you report should look like the following one (you will not have any figures). Only the first columns of the report are displayed

App	ICMATCHING	ICMatching
ACCTDETAIL	F_CLO	Clearing balance
CATEGORY	ACTUAL	Actual from/To
GROUPS	LC	Local Currency
ICACCOUNT	CTLCIS0000	Intercompany Check TOTAL
ICDATASRC	INPUT	Company Input
INTCOL	Inp_Interco	All Input Inter-company
LEGALITY	CGF	CG-Denomy
MEASURES	YTD	Year to Date
TIME	2005.DEC	2005.DEC
TRNCURRENCY	T_ALL	All Transaction Currencies

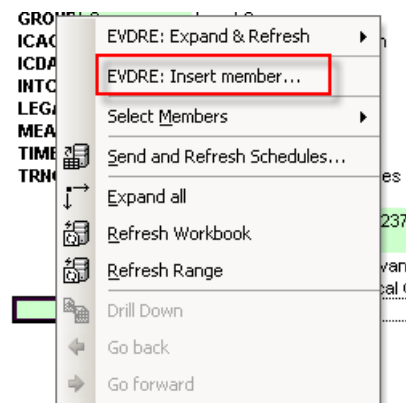
EUR	EUR	EUR	TC	TC	TC
DEBIT1	CREDIT1	TOTAL1	DEBIT1	CREDIT1	TOTAL1
Euro	Euro	Euro	Transaction Currency	Transaction Currency	Transaction Currency
My Asset / Income	My Liabilities / Expense	Total 1	My Asset / Income	My Liabilities / Expense	Total 1
100.00	(96.00)	4.00	100.00	(100.00)	

3.7 Test the setup

78. Open the Input Schedule you previously created and set your current view according to the print screen. Please make sure that you have currency exchange rates defined for the period you select



79. Right click on the empty green and select "EVDRE : Insert member..."



80. Select "I_CGUSA" as INTCOL and "T_EUR" as TRNCURRENCY, then click "OK"



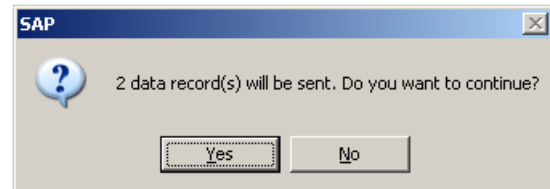
81. Find the Account "AS27480000" and enter "100" in the columns "LC" and "TC"

				AS27480000	AS27480000
				LC	TC
				Other loans	Other loans
				Local Currency	Transaction Currency
I_CGUSA	T_EUR	CG USA	Euro	100.00	100.00

82. Select "Send Data" in the "Action Pane", then "Send Active Worksheet" and finally "OK" in the confirmation Dialog Box

Send data

Send active worksheet



83. Please make sure that the records were sent successfully

```

=====
Book Name:IS ICMatching1

Application      :      ICMATCHING
Status          :      Success
Submitted Count :      2
Accepted Count  :      2
Rejected Count  :      0
  
```

84. Select the Entity "CGUSA" and repeat the same steps, but this time enter 120 in the column "LC" and 100 in the column "TC" on the Account "LI16870000" against "I_CGD" (in "T_EUR")

				LI16870000	LI16870000
				LC	TC
				Other Debts	Other Debts
				Local Currency	Transaction Currency
I_CGD	T_EUR	CG Germany	Euro	120.00	100.00

85. Close the input Schedule and open the IC Matching Report. The report should look similar to the print screen for entity "CGD". You should have a difference of 4.00 on the "Total1" Datasrc in EUR and 0.00 difference in TC

	EUR DEBIT1	EUR CREDIT1	EUR TOTAL1	TC DEBIT1	TC CREDIT1	TC TOTAL1
	Euro	Euro	Euro	Transaction Currency	Transaction Currency	Transaction Currency
	My Asset / Their Liabilities Income / Expense		Total 1	My Asset / Their Liabilities Income / Expense		Total 1
Intercompany Long Term	CG USA	Euro	100.00	(96.00)	4.00	100.00
						(100.00)

86. Click on the “Home” icon and select “Manage Data” in the “Action Pane”



[Manage Data](#)

87. Select “Run a Data Management Package in the Action Pane

[Run a data management package](#)

88. Select “Financial Process” as Package Group and double click “IC Elimination” to start that package

Package Group	Package Name	Description
ICMATCHING	FX Restatement	Perform Currency restatement
Financial Processes	IC Eliminations	Perform Intercompany eliminations
System Administration		

89. Click “Next” on the first screen, then set your Data Region and click “Next” and finally click “Finish”

Category	ACTUAL	
Time	2005.DEC	

90. Click on “View Status” and check that the package has completed successfully. Close all the dialog boxes



<input checked="" type="checkbox"/> IC Eliminations	OLS-SUPPORT-INT\...	Completed	2008-11-18 16:56:37	2008-11-18 16:56:40
---	---------------------	-----------	---------------------	---------------------

91. Click on the “Home” icon, select “Reporting & Analysis” and “Open a blank workbook”

[Reporting & Analysis](#)

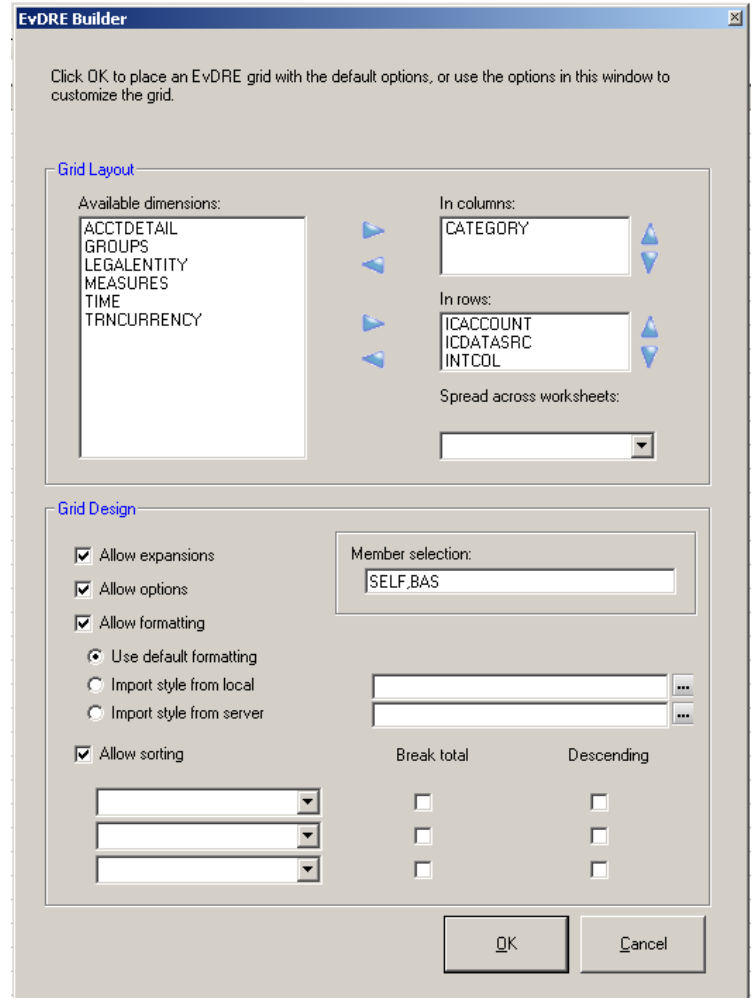
[Open a blank workbook](#)

92. Enter “=EVDRE()” in cell “A1” and click the “Refresh” button

	A1	B	C	D
1	EVDRE.C			

fx =EVDRE()
Click refresh to generate sample

93. Set the following EVDRE parameters



94. Set the following parameters

PARAMETER	EXPANSION 1	EXPANSION 2	EXPANSION 3	EXPANSION 4
ExpandIn	COL	ROW	ROW	ROW
Dimension	CATEGORY	ICDATASRC	ICACCOUNT	INTCOL
MemberSet	SELF	BASMEMBERS	BASMEMBERS	BASMEMBERS
BeforeRange				
AfterRange				
Suppress		Y	Y	Y
Insert				

95. Set the following Current View

Current View:

Application: ICMATCHING

Acctdetail: F_CLO

Category: ACTUAL

Groups: EUR

Iccount: CTLCIS0000

Icdatasrc: ICDIFF

Intcol: Inp_Interco

Legality: CGUSA

Time: 2007.DEC

Trncurrency: T_ALL

Measures: YTD

96. Expand the report and compare the result



97. Check that 2 records are generated on the Datasrc "ICDIFF" (one with +4 and one with -4)

			ACTUAL
			Actual from GL
Other loans	Their Asset / Income	CG Germany	100.00
Other Debts	Company Input	CG Germany	96.00
Other Debts	My Liabilities / Expense	CG Germany	96.00
Other Debts	Intercompany Difference Datasrc	CG Germany	4.00
IC Difference Booking Account 01	Intercompany Difference Datasrc	No Intercompany	(4.00)

4 Appendix

4.1 Dimensions

Only the properties relevant for this How-To Guide are shown

4.1.1 ICDataSrc

ID	NEWID	EVDESCRIPTION	PARENTH1	IS_CONVERTED	IC_ORIGINE	DATASRC_TYPE
INPUT		Company Input		Y	I	I
TOTAL1						
DEBIT1		My Asset / Income	TOTAL1	N	D	
CREDIT1		Their Liabilities / Expense	TOTAL1	N	C	
TOTAL2						
DEBIT2		Their Asset / Income	TOTAL2	N	D2	
CREDIT2		My Liabilities / Expense	TOTAL2	N	C2	
ICDIFF		Intercompany Difference DataSrc		G		

4.1.2 ICAccount

ID	NEWID	EVDESCRIPTION	PARENTH1	ACCTYPE	RATETYPE	PINTCO
AS23700000		Advances on Intangible assets	CTLICEND01	AST	ENDFLOW	Y
AS23800000		Advances on tangible assets	CTLICEND01	AST	ENDFLOW	Y
AS26710000		Loans & accounts receivable related to subsidiary	CTLICEND01	AST	ENDFLOW	Y
AS27480000		Other loans	CTLICEND01	AST	ENDFLOW	Y
AS27500000		Deposits and guarantees Paid	CTLICEND01	AST	ENDFLOW	Y
AS27600000		Other financial assets	CTLICEND01	AST	ENDFLOW	Y
AS41100000		Trade notes and accounts receivable	CTLICBFR01	AST	ENDFLOW	Y
AS40971000		Suppliers - Debit Notes	CTLICBFR01	AST	ENDFLOW	Y
AS40980000		Rebates, Reduction, Discounts to receive	CTLICBFR01	AST	ENDFLOW	Y
AS46700000		Other amounts receivable	CTLICBFR01	AST	ENDFLOW	Y
AS46870000		Other accounts receivable	CTLICBFR01	AST	ENDFLOW	Y
AS46200000		Amounts receivable. relating to disposal Fixed asset	CTLICEND01	AST	ENDFLOW	Y
AS46731000		Other amounts receivable	CTLICBFR01	AST	ENDFLOW	Y
AS45110000		Subsidiaries: Current Account Debit Balance	CTLICEND01	AST	ENDFLOW	Y
AS48600000		Prepaid charges	CTLICBFR01	AST	ENDFLOW	Y

LI16500000		Deposits received	CTLICEND02	LEQ	ENDFLOW	Y
LI16870000		Other Debts	CTLICEND02	LEQ	ENDFLOW	Y
LI45120000		Subsidiaries: Current Account Credit Balance	CTLICEND02	LEQ	ENDFLOW	Y
LI41910000		Customers : advances	CTLICBFR02	LEQ	ENDFLOW	Y
LI40110000		Suppliers	CTLICBFR02	LEQ	ENDFLOW	Y
LI46900100		Crđ accts: Automatic process	CTLICEND02	LEQ	ENDFLOW	Y
LI46900200		Crđ accts: Automatic process	CTLICBFR02	LEQ	ENDFLOW	Y
LI46500000		Other Debts	CTLICBFR02	LEQ	ENDFLOW	Y
LI41970000		Customers : Other Credit Notes	CTLICBFR02	LEQ	ENDFLOW	Y
LI48700000		Deffered income	CTLICBFR02	LEQ	ENDFLOW	Y
PL70700000		Sales of goods for resale	CTLICEXP01	INC	AVG	Y
PL70100000		Sales of finished products	CTLICEXP01	INC	AVG	Y
PL70200000		Sales of intermediary products	CTLICEXP01	INC	AVG	Y
PL70900000		Discounts granted on sales of finished products	CTLICEXP01	EXP	AVG	Y
PL70400000		Revenues from fees for works	CTLICEXP01	INC	AVG	Y
PL70500000		Revenues from fees for Studies	CTLICEXP01	INC	AVG	Y
PL70600000		Income from services rendered	CTLICEXP01	INC	AVG	Y
PL70800000		Supplementary income	CTLICEXP01	INC	AVG	Y
PL70940000		Discounts granted on services	CTLICEXP01	EXP	AVG	Y
PL75100000		Other income**	CTLICEXP01	INC	AVG	Y
PL60700000		Purchase of goods for resale	CTLICEXP02	EXP	AVG	Y
PL60800000		Purchase costs	CTLICEXP02	EXP	AVG	Y
PL60900000		Supplier discounts and allowances	CTLICEXP02	INC	AVG	Y
PL60100000		Purchase for inventory - Raw material and supplies	CTLICEXP02	EXP	AVG	Y
PL60810000		Other expenses/ purch / raw material	CTLICEXP02	EXP	AVG	Y
PL60910000		Discounts on purchase of raw material&supplies	CTLICEXP02	INC	AVG	Y
PL60400000		Services purchased	CTLICEXP02	EXP	AVG	Y
PL60940000		Discounts on purch of equipment&works	CTLICEXP02	INC	AVG	Y
PL61000000		External services	CTLICEXP02	EXP	AVG	Y
PL61100000		General subcontracting	CTLICEXP02	EXP	AVG	Y
PL61220000		Leasing - Machinery and Equipment	CTLICEXP02	EXP	AVG	Y
PL61250000		Realty Leasing	CTLICEXP02	EXP	AVG	Y
PL61320000		Realty Rental	CTLICEXP02	EXP	AVG	Y
PL61350000		Rental - Machinery and Equipment	CTLICEXP02	EXP	AVG	Y
PL61500000		Maintenance and repairs	CTLICEXP02	EXP	AVG	Y
PL61600000		Insurance premiums	CTLICEXP02	EXP	AVG	Y
PL61900000		Discounts obtained on external services operating	CTLICEXP02	INC	AVG	Y

PL62000000		Other external services	CTLICEXP02	EXP	AVG	Y
PL62200000		Fees/salaries paid to temporary staff	CTLICEXP02	EXP	AVG	Y
PL62300000		Adverts/publ/pub relations expenses	CTLICEXP02	EXP	AVG	Y
PL62400000		Transportation costs	CTLICEXP02	EXP	AVG	Y
PL62500000		Travel and entertainment expenses	CTLICEXP02	EXP	AVG	Y
PL62600000		Telephone and postal costs	CTLICEXP02	EXP	AVG	Y
PL62800000		Other external services	CTLICEXP02	EXP	AVG	Y
PL62900000		Discounts obtained on external services	CTLICEXP02	INC	AVG	Y
PL65110000		Royalties for concessions, patents, licenses	CTLICEXP02	EXP	AVG	Y
PL65300000		Director fees	CTLICEXP02	EXP	AVG	Y
PL65800000		Other operating charges	CTLICEXP02	EXP	AVG	Y
PL76120000		Fin income/ Dividend to receive	CTLICFIN01	INC	AVG	Y
PL76170000		Other fin income from investments	CTLICFIN01	INC	AVG	Y
PL76210000		Revenue from other financial investments	CTLICFIN01	INC	AVG	Y
PL76240000		Revenue from Loans	CTLICFIN01	INC	AVG	Y
PL76270000		Revenue from fixed Debtors	CTLICFIN01	INC	AVG	Y
PL76310000		Financial income from trade debtors	CTLICFIN01	INC	AVG	Y
PL76380000		Financial income from other debtors	CTLICFIN01	INC	AVG	Y
PL76400000		Revenues from, bonds, stocks, securities	CTLICFIN01	INC	AVG	Y
PL76500000		Discounts received	CTLICFIN01	INC	AVG	Y
PL76800000		Other financial income	CTLICFIN01	INC	AVG	Y
PL79600000		Financial expenses transferred	CTLICFIN01	INC	AVG	Y
PL66100000		Interest expenses	CTLICFIN02	EXP	AVG	Y
PL66400000		Losses on receivables related to invest in subsid	CTLICFIN02	EXP	AVG	Y
PL66500000		Discounts granted	CTLICFIN02	EXP	AVG	Y
PL66800000		Other financial charges	CTLICFIN02	EXP	AVG	Y
PL77140000		Extraordinary income: Profit/debtors	CTLICEXC01	INC	AVG	Y
PL77180000		Other extraordinary income/Normal operations	CTLICEXC01	INC	AVG	Y
PL77880000		Other ext. income/capital transactions	CTLICEXC01	INC	AVG	Y
PL78762000		Extraordinary expenses transferred	CTLICEXC01	INC	AVG	Y
PL67150000		Subsidies granted	CTLICEXC02	EXP	AVG	Y
PL67180000		Other extraordinary charges - Operating	CTLICEXC02	EXP	AVG	Y
PL67800000		Extraordinary charges : Other investment	CTLICEXC02	EXP	AVG	Y
PL67900000		Extraordinary charges automatic process	CTLICEXC02	EXP	AVG	Y
CTLCIS0000		Intercompany Check TOTAL		AST		
CTLICBFR00		Intercompany Short Term	CTLCIS0000	AST		S
CTLICBFR01		Intercompany Short Term : Receivables	CTLICBFR00	AST		
CTLICBFR02		Intercompany Short Term : Payables	CTLICBFR00	LEQ		

CTLICEND00		Intercompany Long Term	CTLCIS0000	AST		S
CTLICEND01		Intercompany Long Term : Receivables	CTLICEND00	AST		
CTLICEND02		Intercompany Long Term : Payables	CTLICEND00	LEQ		
CTLICEXP00		Intercompany operating	CTLCIS0000	INC		S
CTLICEXP01		Intercompany operating : Revenus	CTLICEXP00	INC		
CTLICEXP02		Intercompany operating : Expenses	CTLICEXP00	EXP		
CTLICFIN00		Intercompany Financial	CTLCIS0000	INC		S
CTLICFIN01		Intercompany Financial : Revenus	CTLICFIN00	INC		
CTLICFIN02		Intercompany Financial : Expenses	CTLICFIN00	EXP		
CTLICEXC00		Intercompany Extraordinary	CTLCIS0000	INC		S
CTLICEXC01		Intercompany Extraordinary : Revenus	CTLICEXC00	INC		
CTLICEXC02		Intercompany Extraordinary : Expenses	CTLICEXC00	EXP		
IC_DIFF00		Total IC Difference Booking Accounts		AST		
IC_DIFF01		IC Difference Booking Account 01	IC_DIFF00	AST		
IC_DIFF02		IC Difference Booking Account 02	IC_DIFF00	AST		

4.1.3 TrnCurrency

ID	NEWID	EVDESCRIPTION	PARENTH1	SCALING	CURRENCY
T_ALL		All Transaction Currencies			
T_EUR		Euro	T_ALL		EUR
T_USD		US Dollar	T_ALL		USD
T_GBP		Great Britain Pound	T_ALL		GBP
T_NONE		No currency			

4.2 Business Rules

Empty columns are hidden

4.2.1 Currency Conversion

Account Rate Type	Source Flow	Formula
AVG	F_CLO	[AVG]
ENDFLOW	F_CLO	[END]

4.2.2 Intercompany Bookings

Rules	Parent Matching Account	Dest. Datasrc	Max Amount	Debit Acc.	Debit Flow	Debit Intco	Credit Acc.	Credit Flow	Credit Intco
Seller Rule	CTLICEND00	ICDIFF	0	LI16870000		F_CLO	IC_DIFF01	F_CLO	I_NONE

4.3 Script Logic

4.3.1 Default Logic

```
//=====
// Currency translation logic
//=====

*RUN_STORED_PROCEDURE=SPRUNCONVERSION('% APP%',
'%CATEGORY_SET%', ", 'GLOBAL', '%SCOPETABLE%', '%LOGTABLE%')

//=====
// IC Data
//=====

*RUN_STORED_PROCEDURE = SPICDATA ('% APP%', '%CATEGORY_SET%',
'%TIME_SET%', 'EUR')
*RUN_STORED_PROCEDURE = SPICDATA ('% APP%', '%CATEGORY_SET%',
'%TIME_SET%', 'TC')
*COMMIT
```

4.3.2 ICElim Logic

```
//=====
// IC Booking
//=====

*RUN_STORED_PROCEDURE = SPICBOOKING
('% APP%', '%CATEGORY_SET%', '%TIME_SET%', 'EUR', ", 'GROUPS=EUR')
*COMMIT
```

www.sdn.sap.com/irj/sdn/bpx-cpm