

# BW Currency Conversion

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## Rates for Qlikview

Remember that Qlikview is also using these rates by using a query based on the DSO DAFICE01. (BW\_QRY\_DAFICE01\_0001)

## Exchange Rates In WBP

| Type Code | BW description                                                                   | Currencies  | Frequency                                                         | Method        | Periods             |
|-----------|----------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------|---------------|---------------------|
| CAR1      | Magnitude Exchange Rate from from BFC file.                                      | To EUR only | Monthly (BW load daily but BFC file update monthly on day 1 - 10) | ABAP          | Up to Year + 1      |
| CAR3      | Copy of CAR1 + euro is reference currency to allow all conversion from BFC file. | All         | Monthly (BW load daily but BFC file update monthly on day 1 - 10) | ABAP          | Up to Year + 1      |
| CAR2      | Monthly Average Rate + SIMU Rate (All) from BFC file.                            | To EUR only | Monthly (BW load daily but BFC file update monthly on day 1 - 10) | ABAP          | Up to Year + 1      |
| CAR4      | Copy of CAR2 + euro is reference currency to allow all conversion from BFC file. | All         | Monthly (BW load daily but BFC file update monthly on day 1 - 10) | ABAP          | Up to Year + 1      |
| CAR5      | Copy of CAR4 + BFR+ BUDGET data from BFC file.                                   | All         | Monthly (BW load daily but BFC file update monthly on day 1 - 10) | ABAP          | Up to Year + 1      |
| CAR6      | Only Budget rates from BFC file.                                                 | All         | Monthly (BW load daily but BFC file update monthly on day 1 - 10) | ABAP          | Up to Year + 1      |
| ZBUD      | ZBUD Monthly reval. for budget (spring)                                          | To EUR only | Monthly                                                           | PC_FC_COMPLET | Up to current month |
| ZRH2      | Exchange Rate base on ZHRO ref. crcy EUR                                         | All         | Monthly                                                           | ABAP          | Up to last month    |
| ZRH3      | Exchange Rate base on ZHRO ZBUD ref. EUR                                         | All         | Monthly                                                           | PC_FC_COMPLET | Up to last month    |

|      |                                                               |             |         |                           |                  |
|------|---------------------------------------------------------------|-------------|---------|---------------------------|------------------|
| ZRHO | Monthly valuation consolidation rate                          | To EUR only | Daily   | PC_TECH_01<br>Variant WP1 | Up to last month |
| M    | Standard translation at average rate (European Central Bank)  | All         | Daily   | PC_TECH_01<br>Variant PRS | Up to last day   |
| C    | Y to date cumulated average monthly (reporting)               | To EUR only | Daily   | PC_TECH_01<br>Variant PI1 | Up to last month |
| A    | Monthly average of 'M' rates since the beginning of the month | To EUR only | Monthly | PC_TECH_01<br>Variant PI1 | Up to last month |
| EURX | Derived currency rate used by any other currency rate         |             | Daily   | PC_TECH_01<br>Variant WP1 |                  |
| LBRD | Brazilian Central Bank                                        | All         | Daily   | PC_TECH_01<br>Variant PF1 |                  |
| ZDAY | Custom Daily Rate (Stopped in 2017)                           | All         | Daily   | PC_TECH_01<br>Variant WP1 | Up to last day   |

## Process Chain - PC\_TECH\_01

Steps :

- Starter : Daily run at 1am
- Load Global Settings WP1 : Transfer Global Settings from WP1
  - Contents: Currencies - Units of Measurement - Fiscal Year Variants
  - Mode: Update tables
- Delete M factors from TCURF (Clean before loading from PRS)
- Load Global Settings PRS : Transfer Global Settings from PRS
  - Contents: Currencies
  - Mode: Update tables
- Load Exchange rates WP1
  - Types: ZRHO - ZDAY - EURX
- Load Exchange rates PI1
  - Types: C - A
- Load Exchange rates PRS
  - Types: M
- Load Exchange rates PF1
  - Types: LBRD
- Rebuild Factory Calendar WP1 (program RSIMPCUST, variant Z\_FACT\_CAL\_WP1).
- Execute program ZBW\_RSSM\_EVENT\_RAISE with variant Z\_CPX\_TRSV\_01 this program will use FM RSSM\_EVENT\_RAISE with system destination CPX to raise the event Z\_EVT\_PC\_TRANSVERSE\_01 and so execute chain PC\_TRANSVERSE\_01 in CPX system.



Variant for program RSIMPCURR and RSIMPCUST must be maintained on each environment. The Source System is not translated /converted during the releasing of the transport request from one BW system to another BW system.

## CAR Currencies

**The main dataflow is : Flat file uploaded on BW folder and dedicated process chain is used to load the data for CAR1, CAR2, CAR3 and CAR4 currency rate.**

What is the Team in charge of the management of source of the data for CAR1 and CAR2?

Answer : BFC admin team.

\$BFC-Admin : [BFC-Admin@solvay.com](mailto:BFC-Admin@solvay.com)

\$BOIC-Admin : [boic-admin@solvay.com](mailto:boic-admin@solvay.com)

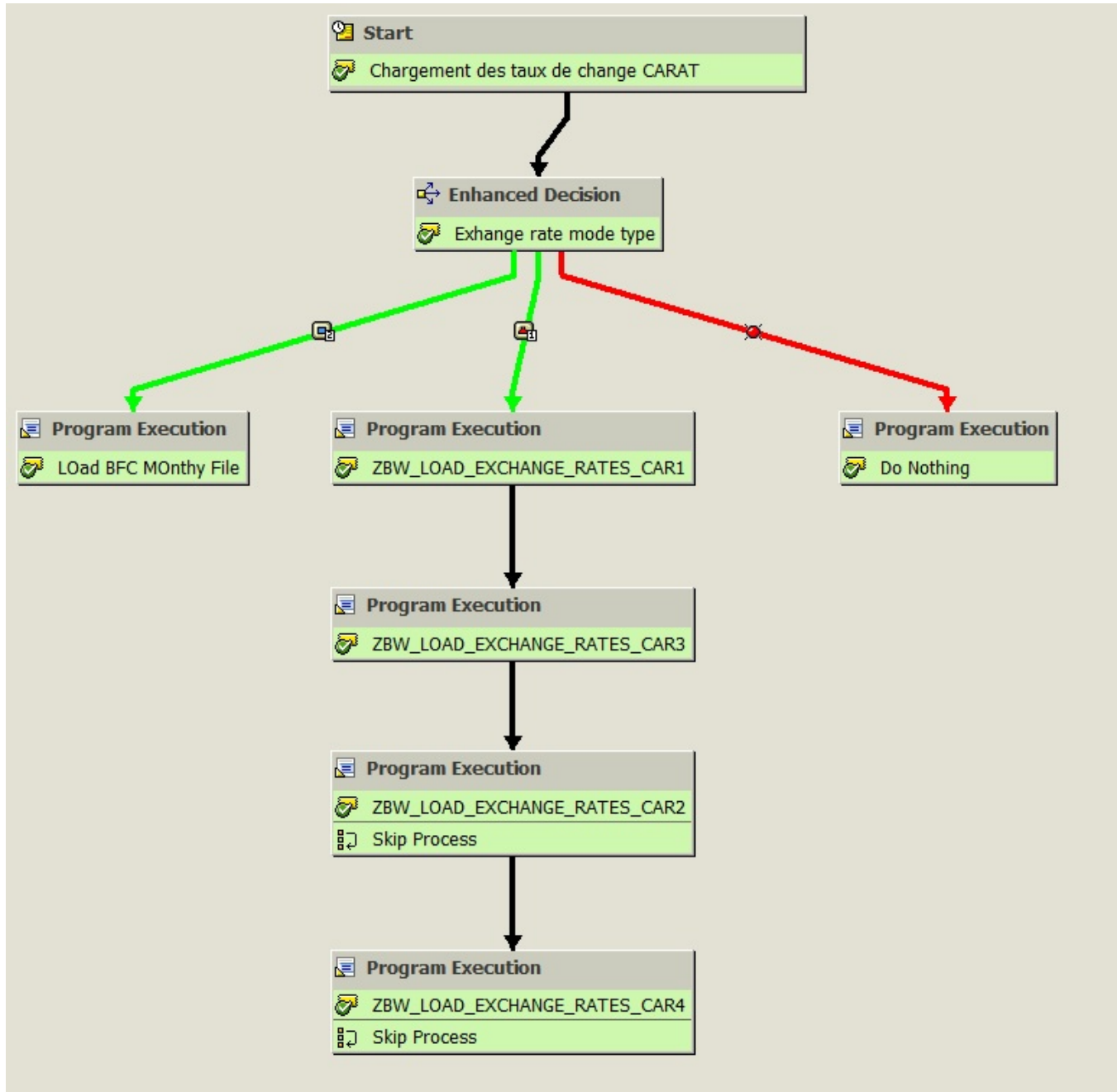
+ Key contacts :

Nicolas Donck : [nicolas.donck@solway.com](mailto:nicolas.donck@solway.com)  
Tiago Rodrigues : [tiago.rodrigues@solway.com](mailto:tiago.rodrigues@solway.com)

Nicolas Bourgois : [nicolas.bourgois@solway.com](mailto:nicolas.bourgois@solway.com) (who replace Lionel DROUOT)

Main process chain used :

Z\_TAUX\_CARAT Magnitude Exchange Rates scheduled every BE working day 11:00pm CET Time



Main program used :

ZBW\_LOAD\_EXCHANGE\_RATES\_CAR

Variant :

Z\_MONTHLY\_FILE

## ABAP: Selections of Variant Z\_MONTHLY\_FILE

Catalog

Values

Attributes



Objects for selection screen

| Selection Screen | Field name                     | Type | I/E | Option | frm                                                                              | to |
|------------------|--------------------------------|------|-----|--------|----------------------------------------------------------------------------------|----|
| 1000             | Choose the type fo file        | P    |     |        |                                                                                  |    |
| 1000             | Exchange rate local file       | P    |     |        |                                                                                  |    |
| 1000             | Exchange rate server File      | P    |     | X      |                                                                                  |    |
| 1000             | Hist exchange rate server File | P    |     |        |                                                                                  |    |
| 1000             | BFC Exchange Rate File name    | P    |     |        | Select your PREV_SIMUL_REEL Recurring File                                       |    |
| 1000             | BFC Exchange Rate File name    | P    |     |        | //exploit/BW/Credit_Supplier_Automation/PREV_SIMUL_REEL_ExchangeRates_EurUsd.txt |    |
| 1000             | Histo Exchange Rate File name  | P    |     |        | //exploit/BW/Credit_Supplier_Automation/PREV_SIMUL_REEL_histo.txt                |    |
| 1000             | TCURR Delete (X = Yes)         | P    |     |        |                                                                                  |    |
| 1000             | First Recurring Period         | P    |     |        | 01.2020                                                                          |    |

Values used :

1000 Choose the type fo file P  
 1000 Exchange rate local file P  
 1000 Exchange rate server File P X  
 1000 Hist exchange rate server File P  
 1000 BFC Exchange Rate File name P Select your PREV\_SIMUL\_REEL Recurring File  
 1000 BFC Exchange Rate File name P //exploit/BW/Credit\_Supplier\_Automation/PREV\_SIMUL\_REEL\_ExchangeRates\_EurUsd.txt  
 1000 Histo Exchange Rate File name P //exploit/BW/Credit\_Supplier\_Automation/PREV\_SIMUL\_REEL\_histo.txt  
 1000 TCURR Delete (X = Yes) P  
 1000 First Recurring Period P 01.2020

Explanation how the program update CARx currencies rates :

Example of the content of the file : PREV\_SIMUL\_REEL\_ExchangeRates\_EurUsd.txt

```

Curr;Period;TypeRate;EUR_TC;USD_TC;EUR_TMN;USD_TMN;EUR_TMN_1;USD_TMN_1;EUR_TO;USD_TO;EUR_TCN-1;USD_TCN_1;EUR_TMYN_1;USD_TMYN_1
AED;01.2018;REEL;4.5761000;3.6729272;4.4809800;3.6730232;4.1483000;3.6729803;4.4058500;3.6730721;3.9484000;3.6731010;3.8998200;3.6729721
AED;01.2019;REEL;4.2210000;3.6731497;4.1935800;3.6731452;4.3378800;3.6732651;4.2077500;3.6731264;4.5761000;3.6729272;4.4809800;3.6730232
AED;01.2020;REEL;4.0577500;3.6730029;4.0769700;3.6731114;4.1118700;3.6731162;4.1251500;3.6731668;4.2210000;3.6731497;4.1935800;3.6731452
AED;01.2021;REEL;4.4564500;3.6731506;4.4703100;3.6731606;4.1946800;3.6731319;4.5068000;3.6731733;4.0577500;3.6730029;4.0769700;3.6731114
AED;02.2018;REEL;4.4883500;3.6731044;4.5067400;3.6730316;4.1483000;3.6729803;4.4058500;3.6730721;3.8886000;3.6728217;3.9037700;3.6729552
AED;02.2019;REEL;4.1912500;3.6731519;4.1818700;3.6731362;4.3378800;3.6732651;4.2077500;3.6731264;4.4883500;3.6731044;4.5067400;3.6730316
AED;02.2020;REEL;4.0360500;3.6729762;4.0429200;3.6731111;4.1118700;3.6731162;4.1251500;3.6731668;4.1912500;3.6731519;4.1818700;3.6731362
AED;02.2021;REEL;4.4504000;3.6731594;4.4568000;3.6731363;4.1946800;3.6731319;4.5068000;3.6731733;4.0360500;3.6729762;4.0429200;3.6731111
AED;03.2018;REEL;4.5244500;3.6728903;4.5146700;3.6730160;4.1483000;3.6729803;4.4058500;3.6730721;3.9241500;3.6730940;3.9108300;3.6729392
AED;03.2019;REEL;4.1258500;3.6731359;4.1717300;3.6731382;4.3378800;3.6732651;4.2077500;3.6731264;4.5244500;3.6728903;4.5146700;3.6730160
  
```

Rules applied to extract data from the file :

| Periods (Months) | CAR 1/3                                                                         | CAR2/4                                                                                                   | CAR5<br>(Real + Simulation (BFR) + PREV (Budget) exchange rates data)                                    | CAR6<br>Only PREV (Budget) exchange rates data                                                                                                                       |
|------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Past : M-X       | column used = <b>EUR_TMN</b><br><br>type rate = <b>REEL</b><br><br>Period = M-X | EUR_TMN for <b>REEL</b> and M-X                                                                          | EUR_TMN for <b>REEL</b> and M-X (first year added for CAR5 : <b>2019</b> )                               | EUR_TC for <b>PREV</b> (replicate values of the quarter to previous month for example quarter 03.2021, the values for 01.2021 and 02.2021 will have the same values) |
| Current : M      | column used = <b>EUR_TMN</b><br><br>type rate = <b>REEL</b><br><br>Period = M-1 | EUR_TC for <b>SIMULATION</b> and M<br>For QV extraction => exception EUR_TC For PREV if simulation empty | EUR_TC for <b>SIMULATION</b> and M<br>For QV extraction => exception EUR_TC For PREV if simulation empty | EUR_TC for <b>PREV</b> (no special rules = value of the quarter linked to the current month)                                                                         |

|                                                         |                                                                                                              |                                                                                                                                             |                                                                                                                                             |                                                                                                                                                                                               |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Futur:<br>M+X<br><br>Until<br>end of<br>current<br>year | column<br>used = <b>EUR_TMN</b><br><br>type<br>rate = <b>P</b><br><b>REV</b><br><br>Period<br>= M+X          | EUR_TC for <b>SIMULATION</b> and<br>M+X<br><br>Correction 01.2021: For QV<br>extraction => exception EUR_TC<br>For PREV if simulation empty | EUR_TC for <b>SIMULATION</b> and<br>M+X<br><br>Correction 01.2021: For QV<br>extraction => exception EUR_TC<br>For PREV if simulation empty | EUR_TC for <b>PREV</b> (replicate values of the quarter to previous<br>month for example quarter 03.2022, the values for 01.2022 and<br>02.2022 will have the same values)                    |
| Next<br>year                                            | column<br>used = <b>EUR_TMN</b><br><br>type<br>rate = <b>P</b><br><b>REV</b><br><br>Period<br>= Next<br>Year | Not generated due to some<br>impact with Dynasys development                                                                                | EUR_TC For <b>PREV of last<br/>quarter of the current year for<br/>all months of next year</b>                                              | EUR_TC for <b>PREV</b> (if data not entered by BFC team, the rule is to<br>take into account the last quarter known so could be 12.2022 for all<br>months of 2023 the value will be the same) |

💡 Remark:

REEL = real BFC cumulated rate (month by month for historical months) +

PREV = budget (quarter by quarter)

SIMU = BFR rate quarter by quarter for the mains currencies managed by BFC team.

|                                                                                   |
|-----------------------------------------------------------------------------------|
| eur_tc(10) TYPE c, "Closing=End-of Month in EUR                                   |
| usd_tc(10) TYPE c, "Closing=End-of Month in USD                                   |
| eur_tm(10) TYPE c, "Year-To-Date in EUR                                           |
| usd_tm(10) TYPE c, "Year-To-Date in USD                                           |
| eur_tm_1(10) TYPE c, "Year-To-Date Dec. N-1 in EUR                                |
| usd_tm_1(10) TYPE c, "Year-To-Date Dec. N-1 in USD                                |
| eur_to(10) TYPE c, "Opening rate in EUR                                           |
| usd_to(10) TYPE c, "Opening rate in USD                                           |
| eur_tcn_1(10) TYPE c, "Closing=End-of Month N-1 in EUR (same month previous year) |
| usd_tcn_1(10) TYPE c, "Closing=End-of Month N-1 in USD (same month previous year) |
| eur_tmyn_1(10) TYPE c, "Year-To-Date N-1 in EUR (same month previous year)        |
| usd_tmyn_1(10) TYPE c, "Year-To-Date N-1 in USD (same month previous year)        |

+ Rules : Compute rates using following rules

\*&- for REEL : compute the monthly rate TM with formula :

\*&  $TM_{reel}(n) = (n \times TMN(n)) - [(n-1) \times TMN(n-1)]$

\*& TMN : year to date rate received n the file

\*& n : number of the concerned month

\*& computed for each month before current month

<FS\_DATA> - RATEC =

( <FS\_DATA> - EUR\_TMN \* <FS\_DATA> - CALMONTH+4 ( 2 ) )  
- ( L\_DATA - EUR\_TMN \* L\_DATA - CALMONTH+4 ( 2 ) ).

\*-& for PREV (=BUDGET rate) --> computed by year

\*&  $EUR\_TC\text{-}budget(12) = (12 \times EUR\_TC(12)) - [9 \times EUR\_TC(9)]$

\*& the computed rate should be placed for month of quarters Q2, Q3, Q4

\*& the received EUR\_TC-prev rate should be placed for Q1

\*&

\*-& for SIMU (=BFR) --> computed by quater

\*&  $EUR\_TC\text{-}bfr(3*i) = (3*i \times EUR\_TC(3*i)) - [3*(i-1) \times EUR\_TC(3*(i-1))]$

\*& the 3 computed rate should be placed for corresponding mont of quarters Q2, Q3, Q4

\*& the received TMN-simu rate should be placed for Q1

al11 folder used :

/exploit/BW/Credit\_Supplier\_Automation

Files :

PREV\_SIMUL\_REEL\_histo.txt

PREV\_SIMUL\_REEL\_ExchangeRates\_EurUsd.txt

Schedules of the update on BW folder :



**Rodrigues, Tiago**

to me, Marie-Yolande, Gregory, Cyril ▾

9 Jul 2020, 19:49 (16 hours ago)



Reply to all



Hello Guillaume,

Currently we are sending the files several times per day.  
Here below the current timings:

| Trigger | Details                                                                   | Status  |
|---------|---------------------------------------------------------------------------|---------|
| Monthly | At 2:06 AM on day 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 of January, February, ... | Enabled |
| Monthly | At 4:06 AM on day 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 of January, February, ... | Enabled |
| Monthly | At 6:06 AM on day 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 of January, February, ... | Enabled |
| Monthly | At 10:06 AM on day 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 of January, February...  | Enabled |
| Monthly | At 1:06 PM on day 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 of January, February, ... | Enabled |
| Monthly | At 3:06 PM on day 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 of January, February, ... | Enabled |
| Monthly | At 6:06 PM on day 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 of January, February, ... | Enabled |
| Monthly | At 8:06 PM on day 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 of January, February, ... | Enabled |
| Monthly | At 10:06 PM on day 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 of January, February...  | Enabled |

Do you want me to extend one additional schedule at 11:06 PM ?

Thank you for the confirmation.



**KUCZYNSKI, Marie-Yolande**

to Gilles, Laurence, me, Caroline, Harsha, \$BFC-Admin, Tres, \$BOIC-Admin, Annelore, Lionel, Hanqing ▾

16:06 (44 minutes ago)



Reply to all



Hello Guillaume,

As I've explained in my mail, 2020 rates, forecasts (PREV) are managed in BFC only quarterly, same way or ALL CURRENCIES, not only for VES.  
It was already like this last year.

Cordialement / Regards

Marie-Yolande KUCZYNSKI

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## CAR1 - Magnitude Exchange Rate

### Description

CAR1 is the joining of the "un-cumulated" version of the **Cumulated Monthly Mean** (CMM - Also referred as "YTD Monthly Avg Rate") **AND** the **PR EV (Budget)** rates from BFC.

For past months, CAR1 is the un-cumulated CMM and for the future months, it is the PREV rate.

When to use it

Must be used for Profit & Loss accounts (cumulated) and most of balance sheet movement flows.

---

### **CAR3 - Exchange Rate base on CAR1 ref. crcy EUR**

Description CAR3 is the same rate as **CAR1** but can be used to convert from any currency to any currency. As CAR1 can only be used to convert to EUR, CAR3 is set so that EUR is used as a "Pivot" currency.

When to use it CAR3 is used for SPRINT. *P&L, Working Capital*

### **CAR2 - COLMAR Exchange Rate**

CAR2 used for Colmar or CAR4 ?

---

### **CAR4 - Exchange Rate base on CAR2 ref. crcy EUR**

CAR4 is the same rate as **CAR2** but can be used to convert from any currency to any currency.

As CAR2 can only be used to convert to EUR, CAR4 is set so that EUR is used as a "Pivot" currency.

Used by Colmar and Finance application

Tcode ZRATE to be documented.

---

### **CAR5 - Exchange Rate base on CAR4 ref. crcy EUR + BFR + Budget for next year**

Mainly used for Anaplan ZBB-F2G project and in the QlikSense Dashboard Cos\$ta

---

### **CAR6 - Exchange Rate base only on PREV data = Budget rates**

Mainly used for the QlikSense Dashboard Cos\$ta

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### **M - Standard translation at average rate**

Source

The currency rate M is loaded from PF1\_050 (see the detail in the google presentation at the end of this page)

Technical Details

Loaded with Process Chain : PC\_TECH\_01

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### **ZRHO - Monthly valuation consolidation rate**

Description

It's the End of month rate (FDM) from BFC. Rate is posted by the European Central Bank (ECB - TARGET system) or related National Central Bank, on last quotation day.

Values can be checked In the finance team site. Under Exchange Rate. "Fin mois / End of Month".

[https://aodocs.altirnao.com/?locale=en\\_US&aodocs-domain=solvay.com#Menu\\_listDoc/LibraryId\\_QLsALxhAuXNKLSz74H/ViewId\\_QLsANWb3lkRle5nnjN/Filter\\_%257B%2522QLsALay014DXTQRuXH%2522:%25220B0Km5zvG\\_rmgN2p2YTBvSjEtSjQ%2522%257D](https://aodocs.altirnao.com/?locale=en_US&aodocs-domain=solvay.com#Menu_listDoc/LibraryId_QLsALxhAuXNKLSz74H/ViewId_QLsANWb3lkRle5nnjN/Filter_%257B%2522QLsALay014DXTQRuXH%2522:%25220B0Km5zvG_rmgN2p2YTBvSjEtSjQ%2522%257D)

Or in the Solia CICC Online, Financial And Credit Tools :

<https://solia.solvay.com/sites/eco-cicc#Home-show>

[http://solia.solvay.com/irj/portal/CICCOOnline\\_FinancialAndCreditTools](http://solia.solvay.com/irj/portal/CICCOOnline_FinancialAndCreditTools)

Source

SAP WP1 - Rate ZRHO -

Remark : ZRHO must be manually created when a new currency is needed. Then a job will run and update it automatically using "M" of the last working day.

Main contact = [Tiago.rodriques](#) and [marie-yolande.kuczynski](#). Freshdesk group = IS-CGI-L2-RTR

Job in WP1 = FI\_EXCHANGE\_RATE\_DAILY\_\_UPDATE\_2

Program = ZZRDI CUR with parameter (DAILY\_M, DAILY\_M\_X, DAILY\_M\_Z, DAILY\_LPLN\_ZDA)

When to use it

Must be used for Balance Sheet accounts, end of period flow.

Technical Details

Loaded with Process Chain : PC\_TECH\_01

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## ZDAY - Custom Exchange Rate

Source

SAP WP1

Technical Details

Loaded with Process Chain : PC\_TECH\_01

---

## ZRH2 - Exchange Rate base on ZHRO ref. crcy EUR

Description

ZRH2 is the same rate as **ZRHO** but can be used to convert from any currency to any currency.

As ZRHO can only be used to convert to EUR, ZRH2 is set so that EUR is used as a "Pivot" currency.

Technical Details

Program used : Z\_CREATE\_EXCHANGE\_RATES\_ZRH2 Pgr: Exchange Rate ZRH2 base on ZRHO

Process chain : Z\_TAUX\_ZRH2 / Exchanges Rate ZRH2 from ZRHO => runs daily except weekends (sub chain of RSP\_DAILY)



The ZRH2 is not as exact as the ZRHO rate because the "pivoting" calculation may loose some decimals information. One example well known is about KRW.

## ZBUD

Program : Z\_CREATE\_EXCHANGE\_RATES\_ZBUD

Process chain : PC\_FC\_COMPLETE

Source : '//exploit/BW/Credit\_Supplier\_Automation/PREVExchangeRatesForBW-SCA-EurUsd.txt' .

---

## ZRH3 - Exchange Rate base on ZHRO ZBUD ref. EUR

Description

ZRH2 is the concatenation of the ZRHO and ZBUD exchange rates. It takes the ZRHO rate for past periods and the ZBUD for the future periods.

EUR is set as a pivot currency so that the rate can be used from any currency to any currency.

## Technical Details

Z\_CREATE\_EXCHANGE\_RATES\_ZRH3 Pgr: Exchange Rate ZRH3 base on ZRHO and ZBUD

Process chain : PC\_FC\_COMPLETE



The ZRH3 is not as exact as the ZRHO rate because the "pivoting" calculation may loose some decimals information.

## C - Cumulated average monthly (reporting)

### Description

It's the **Cumulated Monthly Mean** (CMM - Also referred as "YTD Monthly Avg Rate") from BFC.

Values can be checked In the finance team site. Under Exchange Rate. "Moyen / Average".

[https://aodocs.altirnao.com/?locale=en\\_US&aodocs-domain=solvay.com#Menu\\_listDoc/LibraryId\\_QLsALxhAuXNKLSz74H/ViewId\\_QLsANWb3lkRle5nnjN/Filter\\_%257B%2522QLsALAY014DXTQRuXH%2522:%25220B0Km5zvG\\_rngN2p2YTBvSjEtSjQ%2522%257D](https://aodocs.altirnao.com/?locale=en_US&aodocs-domain=solvay.com#Menu_listDoc/LibraryId_QLsALxhAuXNKLSz74H/ViewId_QLsANWb3lkRle5nnjN/Filter_%257B%2522QLsALAY014DXTQRuXH%2522:%25220B0Km5zvG_rngN2p2YTBvSjEtSjQ%2522%257D)

Or in the Solia CICC Online, Financial And Credit Tools :

[http://solia.solvay.com/irj/portal/CICCOOnline\\_FinancialAndCreditTools](http://solia.solvay.com/irj/portal/CICCOOnline_FinancialAndCreditTools)

### When to use it

It is used by Qlikview for the "Fixed Cost Dashboard and in WBP for P&L and GBU fixed costs.

## A - Average monthly (reporting)

### Description

It is the **Average monthly** coming from CICC.

It is used by P&L community.

## ZBUD - ZBUD Monthly reval. for budget (spring) => Obsolete (used in the past to create ZRH3)

### Description

Exchange rates version PREV (the same as used for Budget and RSB Phases)

### Source

BFC

### Technical Details

File is : //exploit/BW/Credit\_Supplier\_Automation/PREVExchangeRatesForBW-SCA-EurUsd.txt

File sent via FTP from 6th to 20th day of the month at 0:30 am (Paris Time).

## LBRD coming from the Brazilian Central Bank Daily exchange rate

### Description

LBRD is coming from the Brazilian Central Bank

Documentation in the link below :

Examples of Rate associated to an Application

| Application | Query | Rate | Time Reference |
|-------------|-------|------|----------------|
|-------------|-------|------|----------------|

|      |                                                                                 |      |                                                                                                                                                                                                   |
|------|---------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GSV  | CVA 01_00_00: Invoiced purchasing turnover (FI)<br>GSV_QRY_CUB_FIAP1_CVA_010000 | CAR3 | 0CALMONTH - Invoice Posting Date                                                                                                                                                                  |
| TR   | BW - Shipment costs analysis new (Core Query) BW_QRY_MPR_TR002_0001             | CAR1 | 0CALMONTH - Shipment Creation Date                                                                                                                                                                |
| PS   | BW - Projects PEC & Cash (Core Query) BW_QRY_MPR_PS004_0001                     | CAR3 | 0CALMONTH :<br><ul style="list-style-type: none"> <li>• For Actual CO/FI Posting date.</li> <li>• For Commitments : Requested Delivery date.</li> <li>• For Budget : WBS Creation Date</li> </ul> |
| FC2  | FC2-A01 - Cost Analyst - NVC destination (Core) BW_QRY_MPR_FC001_0010C          | CAR3 | 0FISCPER - Posting Date                                                                                                                                                                           |
| CBS  | CBS - Functions - end of month (Core query) BW_QRY_MPR_FC001_0001               | CAR3 | 0FISCPER - Posting Date                                                                                                                                                                           |
| IM   | BW - Stock evolution with conversion (Core Query) BW_QRY_MPR_IC001_0062         | ZRHO | 0CALMONTH - Stock Month                                                                                                                                                                           |
| FIAR | BW - Credit Management Overdue (Core Query) BW_QRY_MVFIAR01_0002                | ZRH2 | Selected Date (Variable)                                                                                                                                                                          |
| FIWC | BW - Working Capital for GBU (Core Query) BW_QRY_MPR_WC02_0002                  | ZRH2 | Selected Date (Variable)                                                                                                                                                                          |

## Principle of currency conversion in BW

### Principle

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Currency translation | <p>The currency translation happens at different steps :</p> <p>As defined here above, the currency of the transactions are either kept as is or converted into another currency (controlling area currency, ...) when they are uploaded in the different infocubes.</p> <p>If you want to select another currency than that one stored in the infocube, you may translate it on spot when using a query or by creating a key figure with the requested currency and the appropriated available rate.</p> |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Illustration

Example on invoices

Table 1: Solvay chemicals international (0005) has EUR as local currency but issued following invoices :

| Date       | Net value    | Rate (M) | with 3 decimals |
|------------|--------------|----------|-----------------|
| 12/12/2005 | 2.000,00 CHF | 1,5398   | 1,540           |
| 11/01/2006 | 2.000,00 CHF | 1,5437   | 1,544           |
| 10/02/2006 | 2.000,00 CHF | 1,5563   | 1,556           |

Table2: T-code: **OB08** to see exchange rate (in case we have only following exchange rate in the system)

| Date       | Rate (M) | Rate C  |
|------------|----------|---------|
| 30/12/2005 | 1,5551   | 1,54825 |
| 31/01/2006 | 1,5547   | 1,54942 |
| 17/02/2006 | 1,5588   | 1,54942 |

Data base currency

The result of the query will be (with **database currency - the amount without conversion by exchange rate of OB08**. It is calculated during loading data) :

It calculate by using table 1 with 3 decimals

| Cal. year / month | Net value (in doc.curr) | Gross in Trans. Curr (zzvgrossc) | Invoiced Gross amnt (zzvgross) | Netv         |
|-------------------|-------------------------|----------------------------------|--------------------------------|--------------|
| 12.2005           | 2.000 CHF               | 2.000 CHF                        | 1.298,70 EUR                   | 1.298,70 EUR |
| 01.2006           | 2.000 CHF               | 2.000 CHF                        | 1.295,34 EUR                   | 1.295,34 EUR |
| 02.2006           | 2.000 CHF               | 2.000 CHF                        | 1.285,35 EUR                   | 1.285,35 EUR |

The invoiced gross amount is always in local currency and is the result of the conversion of the gross amount in transaction currency as been converted at the **rate M** (with 3 decimals) of the **posting date**.

Remark : the NETV is a calculation based on the invoiced gross amount.

Rate M

For example, we are querying on 17/02/2006. You want to convert the CHF to EUR, in the result of the query if you use rate : **ZZTODAY (rate M)** :

It calculate by using table 2 with Rate M on 17/02/2006 (date of execution the report) for all key figures, which is 1,5588

| Cal. year / month | Net value (in doc.curr) EUR | Gross in Trans. Curr (zzvgrossc) | Invoiced Gross amnt (zzvgross) | Netv         |
|-------------------|-----------------------------|----------------------------------|--------------------------------|--------------|
| 12.2005           | <b>1.283,04</b>             | <b>1.283,04 EUR</b>              | 1.298,70 EUR                   | 1.298,70 EUR |
| 01.2006           | <b>1.283,04</b>             | <b>1.283,04 EUR</b>              | 1.295,34 EUR                   | 1.295,34 EUR |
| 02.2006           | <b>1.283,04</b>             | <b>1.283,04 EUR</b>              | 1.285,35 EUR                   | 1.285,35 EUR |

|                   |                                                                                                                                        |               |                                  |                                |              |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------|--------------------------------|--------------|
| Rate C            | On the 17/02 you want to convert the CHF to EUR, in the result of the query, if you use the rate : <b>ZZVAVMONTC (rate C)</b>          |               |                                  |                                |              |
|                   | It calculate by using table 2 with Rate C on 17/02/2006 (date of execution the report) for all key figures, which is 1,54942           |               |                                  |                                |              |
|                   | Cal. year / month                                                                                                                      | Net val EUR   | Gross in Trans. Curr (zzvgrossc) | Invoiced Gross amnt (zzvgross) | Netv         |
|                   | 12.2005                                                                                                                                | 1.290,81      | 1.290,81 EUR                     | 1.298,70 EUR                   | 1.298,70 EUR |
|                   | 01.2006                                                                                                                                | 1.290,81      | 1.290,81 EUR                     | 1.295,34 EUR                   | 1.295,34 EUR |
|                   | 02.2006                                                                                                                                | 1.290,81      | 1.290,81 EUR                     | 1.285,35 EUR                   | 1.285,35 EU  |
| Enf of month rate | If your the definition of your key figure in your query specially refers to the rate : <b>ZZVAVMONTH</b> (Monthly end of month rate) : |               |                                  |                                |              |
|                   | Cal. year / month                                                                                                                      | Net value EUR | Gross in Trans. Curr (zzvgrossc) | Invoiced Gross amnt (zzvgross) | Netv         |
|                   | 12.2005                                                                                                                                | 1.286,09      | 2.000 CHF                        | 1.298,70 EUR                   | 1.298,70 EUR |
|                   | 01.2006                                                                                                                                | 1.286,42      | 2.000 CHF                        | 1.295,34 EUR                   | 1.295,34 EUR |
|                   | 02.2006                                                                                                                                | 1.283,04      | 2.000 CHF                        | 1.285,35 EUR                   | 1.285,35 EUR |
|                   | It calculate by using table 2 with Rate M base on Cal. year / month                                                                    |               |                                  |                                |              |
|                   | 12.2005 use 1,5551                                                                                                                     |               |                                  |                                |              |
|                   | 01.2006 use 1,5547                                                                                                                     |               |                                  |                                |              |
|                   | 02.2006 use 1,5588                                                                                                                     |               |                                  |                                |              |
|                   | It is used exchange rate of last date on each month that available on table 2 (OB08)                                                   |               |                                  |                                |              |

## Currency Conversion How To

### How to reload historical TCURR:

To reload the historical value in TCURR table, it's necessary to use program ZBW\_LOAD\_EXCHANGE\_RATES\_CAR with option "Hist exchange rate server File". This option will get REEL rate from PREV\_SIMUL\_REEL\_histo.txt to replace table TCURR on CAR1 - CAR6 basing on the period selection.

**Integration of CARAT exchange rates**

☐ Choose the type fo file  
☐ Exchange rate local file  
☐ Exchange rate server File  
☒ Hist exchange rate server File

Histo Exchange Rate File name   
TCURR Delete (X = Yes) ☐

First Recurring Period

Be careful, the date in "first recurring period" in case of historical reload, it's the "until" date, not the "from" date.

Here, the exchange rate before 01.2020 will be reloaded, not after.

Flag TCURR Delete, if mark it = X, it will deleted all the TCURR of CAR1 - CAR6 that time < "First Recurring Period". We use this option only when we are sure that the history file from BFC can replace all CARS type.

The impact will be on the currency that is not in the file will be deleted in TCURR table.

### How to create a backup (TCURF and CAR\* currencies only)

1. Go to transaction SE38
2. Execute program ZBW\_CURRENCY\_BACKUP
3. Select the requested option

**TCURR and TCURF Backup**

Select an option :

☐ 1 - Backup TCURF

☐ 2 - Backup CAR1

☐ 3 - Backup CAR2

☐ 4 - Backup CAR3

☐ 5 - Backup CAR4

4. Execute and check in AL11 in corresponding folder

a. TCURF directory /exploit/BW/TCURF. File name template TCURF\_BACKUP\_[SYSTEM]\_[USER]\_[DATE]\_[TIME].csv

**Directory: /exploit/BW/TCURF**

| Useable | View... | Chang... | Length  | Owner  | Lastchange | Lastchan... | File Name                                     |
|---------|---------|----------|---------|--------|------------|-------------|-----------------------------------------------|
|         |         |          | 4096    | sftpbw | 19.09.2018 | 14:27:41    | .                                             |
| X       |         |          | 1306466 | wbqadm |            |             | TCURF_BACKUP_WBQ_FDODEMON_20180919_142741.csv |

b. CAR directory /exploit/BW/TAUX\_DEV. File name template TCURR\_[CAR1/2/3/4]\_BACKUP\_[SYSTEM]\_[USER]\_[DATE]\_[TIME].csv

**Directory: /exploit/BW/TAUX\_DEV**

| Useable | View... | Chang... | Leng... | Owner   | Lastchange | Lastchange | File Name                                          |
|---------|---------|----------|---------|---------|------------|------------|----------------------------------------------------|
|         |         |          | 256     | sftpbw  | 19.09.2018 | 14:28:35   | .                                                  |
|         |         |          | 4096    | exploit | 31.07.2018 | 10:25:34   | ..                                                 |
| X       |         |          | 4583... | wbqa... | 19.09.2018 | 14:28:35   | TCURR_CAR1_BACKUP_WBQ_FDODEMON_20180919_142835.csv |
| X       |         |          | 2573... | sftpbw  | 01.08.2018 | 14:05:45   | taux_dev_carat.lst                                 |

## How to check the rates

1. Go to transaction SE16
2. Select table TCURR
3. Enter a Exchange rate type
4. Enter a from currency / to currency

|  | Client | Exch.rate type | From currency | To-currency | Valid from | Exchange Rate |
|--|--------|----------------|---------------|-------------|------------|---------------|
|  | 400    | ZRHO           | USD           | EUR         | 31.01.2009 | /1,28160      |
|  | 400    | ZRHO           | USD           | EUR         | 31.12.2008 | /1,39170      |
|  | 400    | ZRHO           | USD           | EUR         | 30.11.2008 | /1,27270      |
|  | 400    | ZRHO           | USD           | EUR         | 31.10.2008 | /1,27570      |
|  | 400    | ZRHO           | USD           | EUR         | 30.09.2008 | /1,43030      |
|  | 400    | ZRHO           | USD           | EUR         | 31.08.2008 | /1,47350      |
|  | 400    | ZRHO           | USD           | EUR         | 31.07.2008 | /1,56110      |

**Note** If there is no rate for a period BW will use the previous one! Using the example above: if I need to convert from USD to EUR with date = 10.02.2009 since there is no rate it will use the January rate

## How to check the conversion types

1. Go to transaction RSCUR
2. Select a conversion type
3. You can then check :
  - The exchange rate used
  - The time characteristic used to apply the rate
  - The target currency (fixed, fixed variable, open)

How to create and transport currency factor in BW System - TCURF Table

How to create a new rate type in BW

Mains issues&Troubleshooting about currency exchange rate

1) NO\_FACTORS\_FOUND

**Test Function Module: Result Screen**

Test for function group SCUN  
Function module CONVERT\_TO\_LOCAL\_CURRENCY  
Uppercase/Lowercase ☐

Runtime: 5 521 Microseconds

Exception NO\_FACTORS\_FOUND  
Message ID: SG Message number: 111  
Message:  
Maintain translation ratios for USD / PEN (exchange rate type CAR3)

| Import parameters | Value      |
|-------------------|------------|
| CLIENT            | 110        |
| DATE              | 01.01.2017 |
| FOREIGN_AMOUNT    | 1000       |
| FOREIGN_CURRENCY  | PEN        |
| LOCAL_CURRENCY    | USD        |
| RATE              |            |
| TYPE_OF_RATE      | CAR3       |
| READ_TCURR        |            |

| Export parameters | Value |
|-------------------|-------|
| EXCHANGE_RATE     |       |
| FOREIGN_FACTOR    |       |
| LOCAL_AMOUNT      |       |
| LOCAL_FACTOR      |       |
| EXCHANGE_RATEX    |       |
| FIXED_RATE        |       |
| DERIVED_RATE_TYPE |       |

=> Solution : Add new factors on the tcurf table. See : [How to create and transport currency factor in BW System - TCURF Table \(document in the drive + see below the link\)](#)

## How to create and transport currency factor in BW system - TCURF - TCURR

Knowlegde Database

Specific currencies with no decimals (ie : KRW / JPY)

Currencies KRW and JPY don't have decimals. But you can see in in the Infoprovider that SAP stores in internal format with 2 decimals.

For example if you see the amount **12.34** in the infoprovider for these currencies, in the reporting it will display **1234**.

This information is stored in TCURX table. CURRDEC column corresponding to the number of decimals (0 in this case)

**Data Browser: Table TCURX Select Entries 2**

|  | CURRKEY | CURRDEC |
|--|---------|---------|
|  | JPY     | 0       |
|  | KRW     | 0       |

Useful Document

## How to create and transport currency factor in BW

[Document](#)

### Exchange rates in CPX

[See CPX documentation.](#)

In CPX System, exchanges rates (with factory calendar and global setting) are loading with process Chain PC\_TRANSVERSE\_01.

In CPX Exchange rates are updated from WPX system and also WBP system, it's why at the end of chain PC\_TECH\_01 there is a program ZBW\_RSSM\_EVENT\_RAISE with variant Z\_CPX\_TRSV\_01 to use FM\_RSSM\_EVENT\_RAISE with system destination CPX to raise the event Z\_EVT\_PC\_TRANSVERSE\_01 and so execute chain PC\_TRANSVERSE\_01 in CPX system.

## Obsolete Data

### Management of the currencies on the WBP System

Old dataflow for CAR currency rate

#### BO Dataflow

Business Objects receives the Cumulated Monthly Mean rate (CMM) and the PREV (Budget) rates from BFC and calculates via a program the "un-cumulated" monthly rates and then sends it to BW via flat file.

For details of the calculations in BO :

[https://drive.google.com/file/d/1uyx74ar\\_DvvpOheint6EM6bGlJnEBoi/view](https://drive.google.com/file/d/1uyx74ar_DvvpOheint6EM6bGlJnEBoi/view)

Old dataflow

#### BO Dataflow

Car2 is filled by flat file generated by program on BO serveur from table. eses001.dbo.eis\_exrate

flat file taux\_dev\_carat\_simu.lst

BFC send flat file to BO **PCLOC\_MAGNITUDE\_ttx\_magnitude.txt**

### Technical Details