

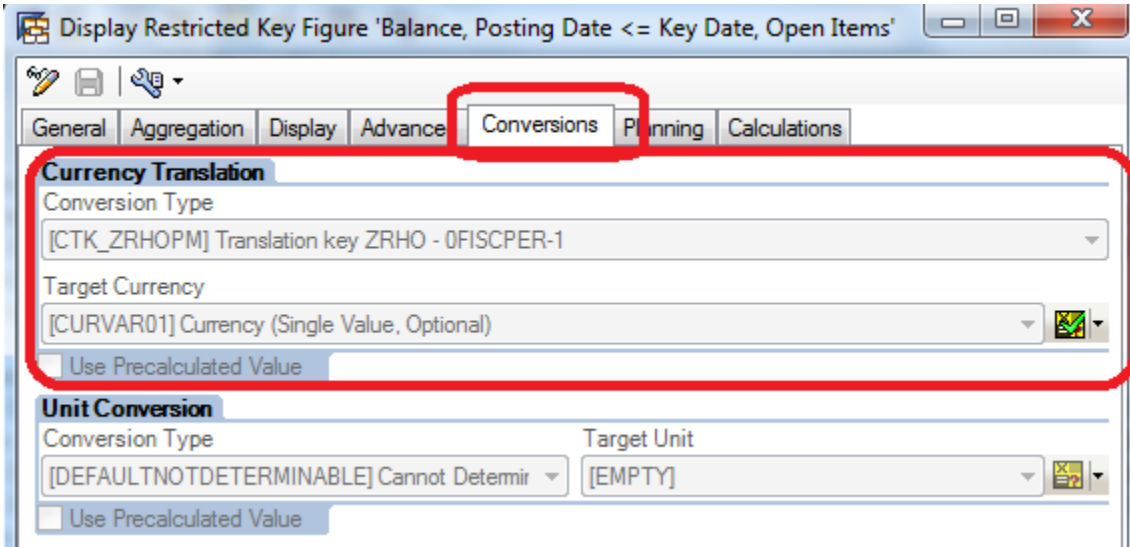
# How to check the currency conversion in a query

This guide explains how to find the currency conversion used in a query and it is applied.

- Step 1 - Open the query in the designer and find the currency conversion rate used
- Step 2 - Look at the Conversion Type design
- Step 3 - Check the value of the exchange rate used

## Step 1 - Open the query in the designer and find the currency conversion rate used

The conversion can be found by looking at the key figure and choosing "display", then going to the "Conversions" tab :



The important field is the "Conversion Type".

If the key figure doesn't have any value in this conversion type, but is converted when you run the report, it means that this key figure is calculated using another key figure which has a conversion. **The calculated/restricted key figure will inherit the conversion from the key figures used in its formula**

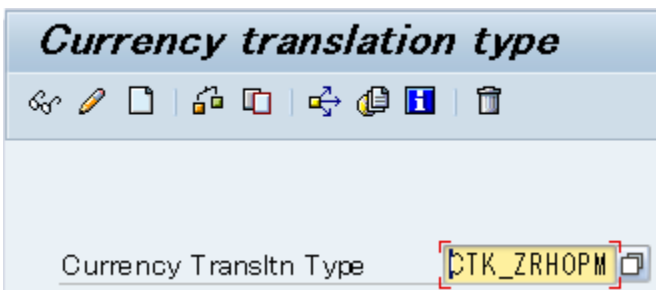
! If a conversion is applied to a key figure and then that key figure is used in calculating another key figure (Restricted Key Figure or Calculated Key figure), the new key figure will also be converted !

The "Target Currency", which defines to which currency the conversion will be done can have several values :

- A variable : in this case the query will have a prompt to select the currency.
- A fixed currency (Ex : EUR) : in this case the user will not be able to choose the currency.
- Empty (with the "Use precalculated value" checked) : in this case it will use what is defined in the RSCUR transaction (See below).

## Step 2 - Look at the Conversion Type design

Once you have found the conversion type used in the key figures, log in BW SAP and **launch transaction RSCUR**. Enter/select the Currency Conversion Type :



There are several information that need to be taken into account :

The **Exchange Rate Type** used : this defines which are is going to be used. We can later check the actual amount.

Conversion Type: CTK\_ZRHOPM  
Description: Translation key ZRHO - 0FISCPER-1

Properties | Exchange Rate | Currency | Time Ref.

Exchange Rate Type: ZRHO  Monthly valuation consolidation rate  
 Ex. Rate Type from var.

You can find in the public BW Exchange rate wiki page a list of the rates found in BW with their meaning : [BW Currency Conversion](#)

The **Time Reference** used : this is time element that will be used to apply the rate.

It can be either Fixed : for example we apply the rate available at current date.

Or it can be variable : for example based on the date in each line/document.

Conversion Type: CTK\_ZRHOPM  
Description: Translation key ZRHO - 0FISCPER-1

Properties | Exchange Rate | Currency | Time Ref.

Fixed Time Ref.  
 Current Date  
 Key Date   
 Time Reference from Variable   
 Use Query Key Date

Variable Time Reference: 3 End of period  
 Standard InfoObject: 0FISCPER Fiscal year / period  
 Special InfoObject   
 InfoSet   
InfoProvider/Table Alias   
InfoObject/Field Alias   
Technical Name

In this example the time reference used is the "0FISCPER" with "End Of Period". This means that when BW does the conversion it will look for each line what is the fiscal period and then look for the exchange rate value available at that fiscal period.

The **Target Currency** : If "Target Currency Selection with Translation" then the currency will have to be selected in the query designer (via variable or fixed). Otherwise it can be fixed or via a variable.

Conversion Type	CTK_ZRHOPM		
Description	Translation key ZRHO - OFISCPER-1		
<div style="display: flex; justify-content: space-between; border-bottom: 1px solid black; padding-bottom: 5px;"> <span>Properties</span> <span>Exchange Rate</span> <span style="border-bottom: 1px solid black;">Curren<span>cy</span></span> <span>Time Ref.</span> </div>			
<b>Source Currency</b>			
<input checked="" type="radio"/>	Source Currency from Data Record		
<input type="radio"/>	Fixed Source Currency	<input type="text"/>	<input type="button" value="Copy"/>
<input type="radio"/>	InfoObject for Determining Source Currency	<input type="text"/>	<input type="button" value="Copy"/>
<input type="radio"/>	Source Currency from Variable	<input type="text"/>	<input type="button" value="Copy"/>
<b>Target Currency</b>			
<input checked="" type="radio"/>	Target Currency Selection with Translation		
<input type="radio"/>	Fixed Target Currency	<input type="text"/>	<input type="button" value="Copy"/>
<input type="radio"/>	Target Currency from Variable	<input type="text"/>	<input type="button" value="Copy"/>
<input type="radio"/>	InfoObject for Determining Target Currency	<input type="text"/>	<input type="button" value="Copy"/>
<input type="checkbox"/>	Use in Transformation Only		
<input type="radio"/>	InfoSet	<input type="text"/>	<input type="button" value="Copy"/>
	InfoProvider/Table Alias	<input type="text"/>	<input type="text"/>
	InfoObject/Field Alias	<input type="text"/>	<input type="button" value="Copy"/>
	Technical Name	<input type="text"/>	

### Step 3 - Check the value of the exchange rate used

Once you know the Conversion Rate Type used we can check the actual value used.

For that launch **transaction SE16** and enter table name "TCURR" (which stores all the conversion rates) :

***Data Browser: Initial Screen***

Table Name	<input type="text" value="TCURR"/>	<input type="button" value="Copy"/>
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Enter the exchange rate type and you can see the values :

## Data Browser: Table TCURR: Selection Screen







 Number of Entries

Exch.rate type	ZRHO	to	<input type="text"/>
From currency	USD	to	<input type="text"/>
To-currency	EUR 	to	<input type="text"/>
Valid from	<input type="text"/>	to	<input type="text"/>
Exchange Rate	<input type="text"/>	to	<input type="text"/>
Ratio (from)	<input type="text"/>	to	<input type="text"/>
Ratio (to)	<input type="text"/>	to	<input type="text"/>

Example of result :

## Data Browser: Table TCURR Select Entries 54







 Check Table...

Table: TCURR

Displayed Fields: 8 of 8 Fixed Columns: [ 5 ] List Width (

	Client	Exch.rate type	From currency	To-currency	Valid from	Exchange Rate
<input type="checkbox"/>	400	ZRHO	EUR	USD	28.09.2012	1,29300
<input type="checkbox"/>	400	ZRHO	EUR	USD	31.08.2012	1,26110
<input type="checkbox"/>	400	ZRHO	EUR	USD	31.07.2012	1,22840
<input type="checkbox"/>	400	ZRHO	EUR	USD	29.06.2012	1,25900
<input type="checkbox"/>	400	ZRHO	EUR	USD	31.05.2012	1,24030
<input type="checkbox"/>	400	ZRHO	EUR	USD	30.04.2012	1,32140
<input type="checkbox"/>	400	ZRHO	EUR	USD	30.03.2012	1,33560
<input type="checkbox"/>	400	ZRHO	EUR	USD	29.02.2012	1,34430
<input type="checkbox"/>	400	ZRHO	EUR	USD	31.01.2012	1,31760