

Using Customer Exit Variables in BW/BI Reports: Part - 9



Applies to:

SAP NetWeaver Business Warehouse (Formerly BI), Will also work on SAP BI 3.5. [EDW homepage](#).

Summary

This article gives clear picture about how to use Characteristic Customer Exit Variables in SAP-BW/BI Reports.

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Author Bio



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Introduction:

This article addresses the requirement of Customer Exit variables in BW/BI Reports; in this article I'm explaining the following scenario...

How to use the Characteristic Customer Exit Variables in BW/BI Reports, how to display the data for Fiscal Year Period data based on User Input Month and Year (**0CALMONTH**).

Live Scenario:

In some of the SAP-BI/BW reports, users want to see the Sales revenue data for the Fiscal Year Period based on Users Input 0CALMONTH.

Steps:

**Create User Entry Variable ZMY_U on 0CALMONTH.
For reference look into the following screens.**

Change Variable

Advanced | General | Replacement Path | Details | Default Values | Currency/Unit

Description
Enter Month & Year
 Use Standard Text

Technical Name
ZMY_U

Global Settings
Type of Variable: Characteristic Value
Processing By: Manual Input/Default Value
Reference Characteristic: [0CALMONTH] Cal. year / month

Last Changed
Owner: DEV_CAT2
Last Changed By: DEV_CAT2
Date/Time: 2/1/2011 12:05:14 AM

OK Cancel

The screenshot shows the 'Change Variable' dialog box with the following details:

- Advanced** (selected)
- General** | **Replacement Path** | **Details** | **Default Values** | **Currency/Unit**
- Basic Settings**
 - Variable Represents: Single value
 - Variable Is: Mandatory
 - Variable is Ready for Input
 - Variable Is Without Context
- Personalization**
 - Copy Personalization Data from This Variable: [Empty text field] [Copy icon]
- Buttons: OK, Cancel

**Create Customer Exit Variable ZFYPM_C on 0FISCPER.
For reference look into the following screens.**

Change Variable

Advanced

General Replacement Path Details Default Values Currency/Unit

Description

Fy Period from Month

Use Standard Text

Technical Name

ZFYPM_C

Global Settings

Type of Variable

Characteristic Value

Processing By

Customer exit

Reference Characteristic

Fiscal year/period [0FISCPER]

Last Changed

Owner: DEV_CAT2
Last Changed By: DEV_CAT2
Date/Time: 6/1/2011 8:42:48 AM

OK Cancel

Change Variable

Advanced

General Replacement Path Details Default Values Currency/Unit

Basic Settings

Variable Represents

Single value

Variable Is

Optional

Variable is Ready for Input

Variable Is Without Context

Personalization

Copy Personalization Data from This Variable

OK Cancel

Code:

Goto **CMOD** TCode in SAP-BW/BI and then give your Project Name and click on Change button.

Project Management of SAP Enhancements

Project

Subobjects

- Attributes
- Enhancement Assignment
- Components
- Documentation

Click on **Components**

Attributes of Enhancement Project ZBW

Project

Short text

Administration data

Double Click on **EXIT_SAPLRRS0_001**

The screenshot shows the 'Display ZBW' window in SAP. The title bar includes 'Project', 'Edit', 'Goto', 'Environment', 'System', and 'Help'. Below the title bar is a toolbar with various icons. The main area contains a table with the following data:

Project			ZBW	For BW Enhancements
Enhancement	Impl	Exp	RSR00001	BW: Enhancements for global variables in report
Function exit	✓		EXIT_SAPLRRS0_001	

Double Click on **INCLUDE ZXRSRU01**.

The screenshot shows the 'Function Builder: Display EXIT_SAPLRRS0_001' window. The title bar includes 'Function Module', 'Edit', 'Goto', 'Utilities(M)', 'Environment', 'System', and 'Help'. Below the title bar is a toolbar with various icons. The main area shows the source code for the function module EXIT_SAPLRRS0_001. The code is as follows:

```

FUNCTION EXIT_SAPLRRS0_001 .
**
*****Lokale Schnittstelle:
** IMPORTING
**   VALUE(I_VNAM) LIKE  RSZGLOBV-VNAM
**   VALUE(I_VARTYP) LIKE  RSZGLOBV-VARTYP
**   VALUE(I_IOBJNM) LIKE  RSZGLOBV-IOBJNM
**   VALUE(I_S_COB_PRO) TYPE  RSD_S_COB_PRO
**   VALUE(I_S_RKB1D) TYPE  RSR_S_RKB1D
**   VALUE(I_PERIV) TYPE  RR001_S_RKB1F-PERIV
**   VALUE(I_T_VAR_RANGE) TYPE  RRS0_T_VAR_RANGE
**   VALUE(I_STEP) TYPE  I DEFAULT 0
** EXPORTING
**   VALUE(E_T_RANGE) TYPE  RSR_T_RANGESID
**   VALUE(E_MEEHT) LIKE  RSZGLOBV-MEEHT
**   VALUE(E_MEFAC) LIKE  RSZGLOBV-MEFAC
**   VALUE(E_WAERS) LIKE  RSZGLOBV-WAERS
**   VALUE(E_WHFAC) LIKE  RSZGLOBV-WHFAC
** CHANGING
**   VALUE(C_S_CUSTOMER) TYPE  RR004_S_CUSTOMER OPTIONAL
**
*****
INCLUDE ZXRSRU01 .

ENDFUNCTION.

```

Write the following Code in the ABAP Editor in ECC:

```

*&-----*
*&  Include           ZXRSRU01
*&-----*

DATA :  l_s_range TYPE rsr_s_rangesid,
        loc_var_range LIKE rrrangeexit.

DATA:  ZMONTH TYPE RSCALMONTH,
        ZFISCPER TYPE RSFISCPER.

CASE i_vnam.

  WHEN 'ZFYPM_C'.
    IF i_step = 2.
      LOOP AT i_t_var_range INTO loc_var_range WHERE vnam = 'ZMY_U'.
        CLEAR: l_s_range.

        ZMONTH = loc_var_range-low.

        CALL FUNCTION 'FISCPER_FROM_CALMONTH_CALC'
          EXPORTING
            IV_CALMONTH      = ZMONTH
            IV_PERIV         = 'V3'
          IMPORTING
            EV_FISCPER3      =
            EV_FISCYEAR      =
            EV_FISCPER       = ZFISCPER.

        l_s_range-low = ZFISCPER.
        l_s_range-sign = 'I'.
        l_s_range-opt = 'EQ'.
        APPEND l_s_range TO e_t_range.
      ENDLOOP.
    ENDIF.

ENDCASE.

```

Save and Activate the above code and project.

Code Explanation:

The Function Module 'FISCPER_FROM_CALMONTH_CALC' will take Month, Year and Fiscal Year Variant as input, and it will give the Fiscal Year Period which is equal to for that Month and Year.

Report Designer:

The screenshot displays the SAP BEx Query Designer interface for a query named "Demo1 [ZDEM01]". The interface is divided into three main sections:

- InfoProvider:** Shows the "Demo InfoCube [ZIC_DEM01]" with a tree structure of Key Figures and Dimensions.
 - Key Figures:** Amount [QAMOUNT], Cost [OCOST], Qty in Base UoM [QQUANT_B].
 - Dimensions:** Material [ZIC_DEM011], Plant [ZIC_DEM012], Other [ZIC_DEM013], Data Package [ZIC_DEM01P], Time [ZIC_DEM01T], Unit [ZIC_DEM01U].
- Filter:** Contains "Characteristic Restrictions" with the following entries:
 - Cal. year / month [OCALMONTH]
 - Enter Month & Year [ZMY_U]
- Default Values:** Contains "Default Values" with the following entries:
 - Plant [OPLANT]
 - Material [OMATERIAL]

At the bottom of the Filter section, there is a text label "Area for Filter Values" and two buttons: "Filter" and "Rows/Columns".

BEx Query Designer - Query: Demo1 [ZDEMO1]

Query Edit View Tools Help

InfoProvider: Demo InfoCube [ZIC_DEMO1]

Key Figures: Amount [QAMOUNT], Cost [OCOST], Qty in Base UoM [OQUANT_]

Dimensions: Material [ZIC_DEMO11], Plant [ZIC_DEMO12], Other [ZIC_DEMO13], Data Package [ZIC_DEMO1], Time [ZIC_DEMO1T], Unit [ZIC_DEMO1U]

Rows/Columns: Free Characteristics

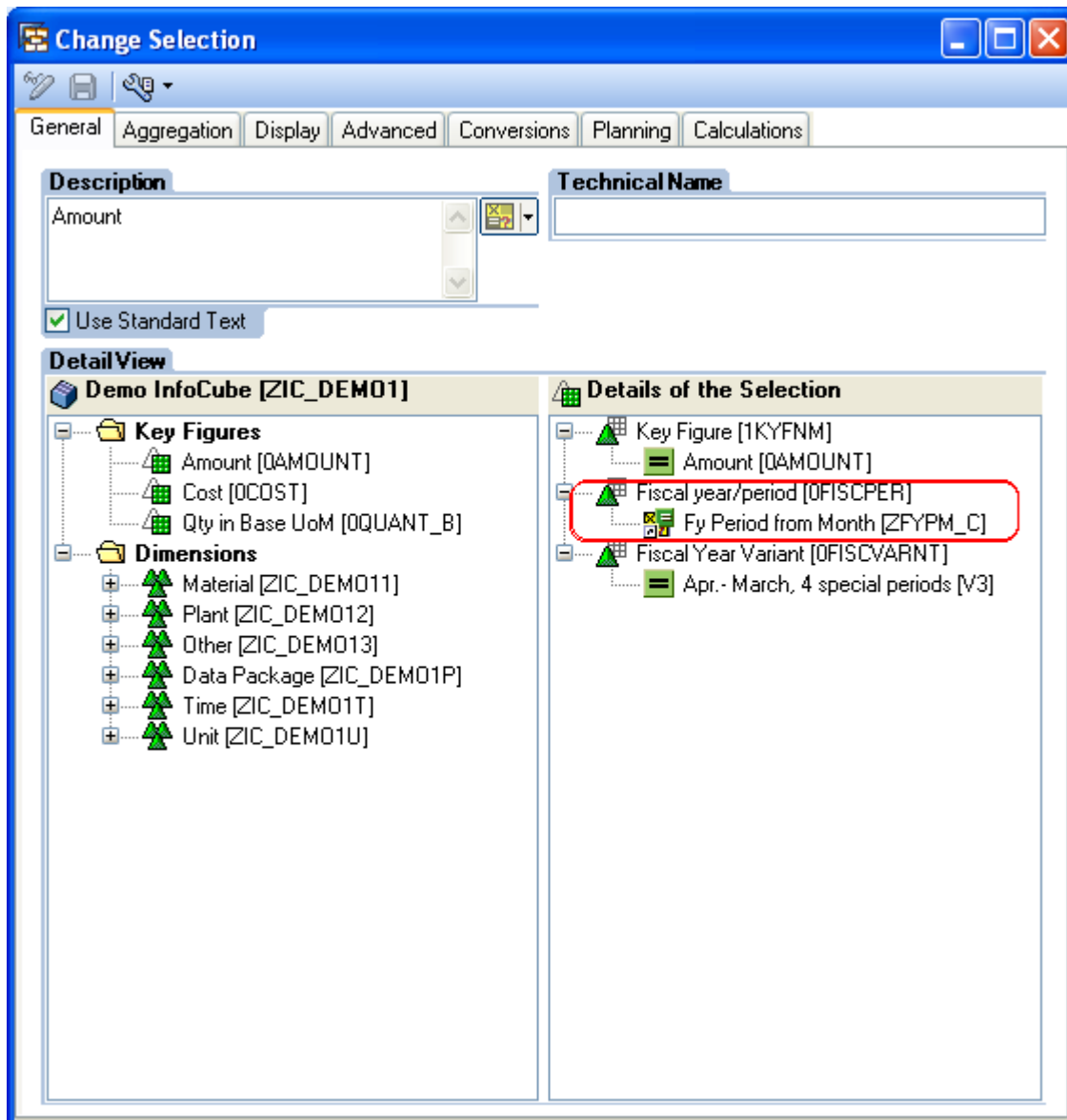
Columns: Key Figures, Amount

Rows: Material [DMATERIAL], Plant [OPLANT]

Preview:

		Amount
a-Material	a-Plant	
	b-Plant	
b-Material	a-Plant	
	b-Plant	

Filter Rows/Columns

**In Filters:**

Drag & Drop 0CALMONTH and restrict with ZMY_U User Input Variable.

In Rows:

Drag and Drop Material and Plant.

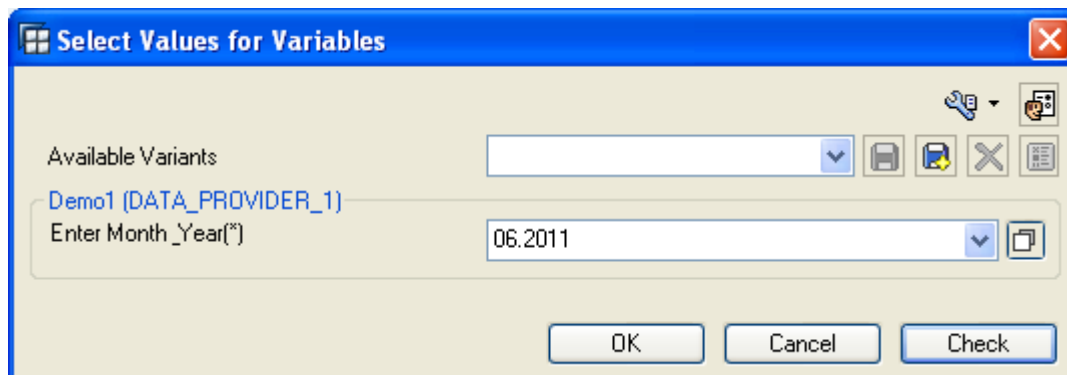
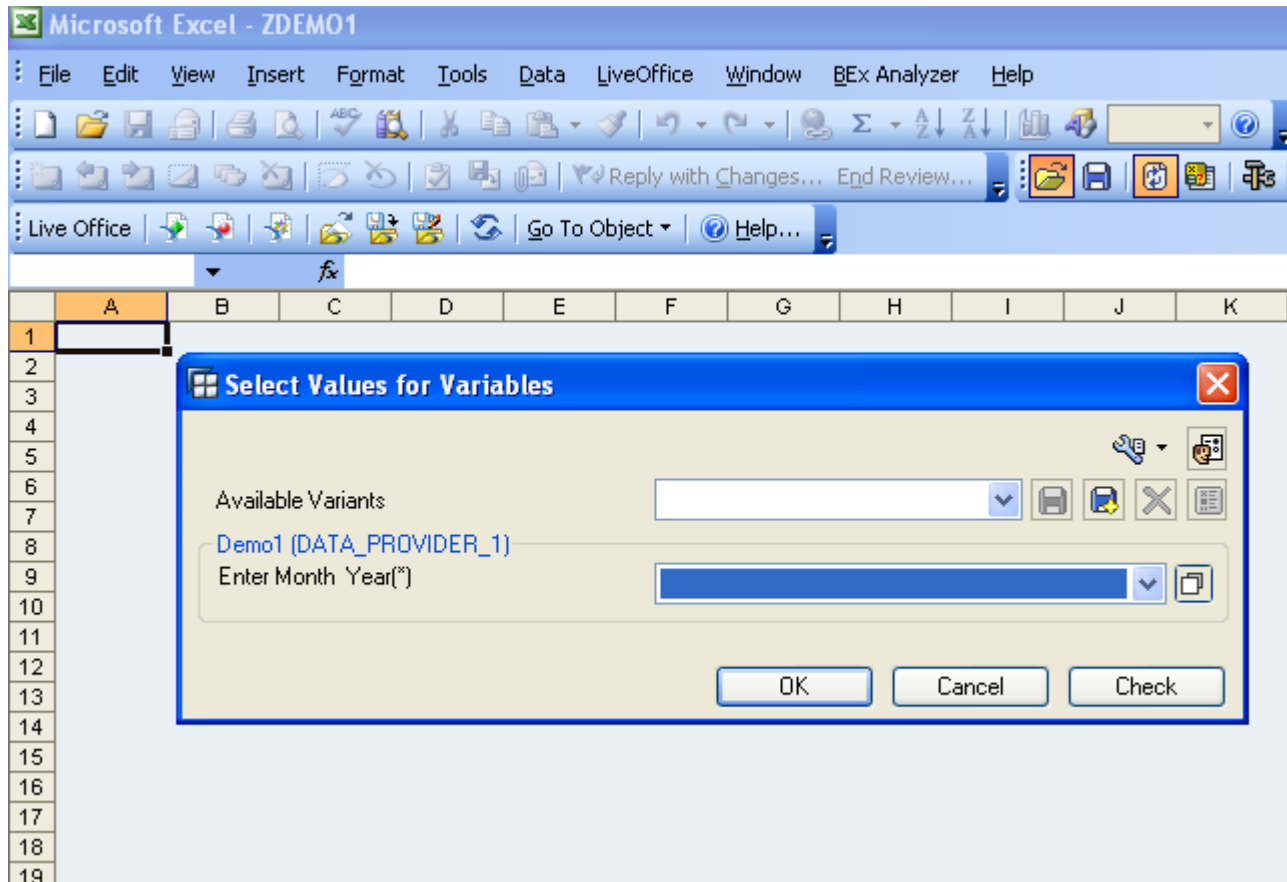
In Columns:

Create New Selection and Drag and Drop Amount, 0FISCVARNT, 0FISCPER and restrict 0FISCVARNT with "V3" (as per India) and 0FISCPER with ZFYPM_C Variable like above.

Save and Execute the Report :

Selection Screen:

Once you execute the report you can see the following selection screen:



Report Result:

See the following Report Result:

Here the result is displayed for 003.2011, because for 06.2011, the equivalent Fiscal Year Period is 003.2011.

The screenshot shows a Microsoft Excel window titled "Microsoft Excel - Demo1". The report content is as follows:

Header: Demo1

Author: SURI2444 **Status of Data:** 5/31/2011 10:15

Information Table:

Information			
Author	SURI2444	Last Refr	6/1/2011 8:24
Current User	DEV_CAT2	Key Date	6/1/2011
Last Changed	DEV_CAT2	Changed	6/1/2011 0:18
InfoProvider	ZIC_DEMO1	Status of	5/31/2011 10:15
Query Techni	ZDEMO1	Relevanc	5/31/2011
Query Descrij	Demo1	Relevanc	0:15:10

Filter Table:

Filter	
Key Figures	
Material	
Plant	

Main Data Table:

Table		
Material	Plant	Amount
M100	P100	100.00 INR
M1000	P192	1,000.00 INR
M1001	P193	1,001.00 INR
M1002	P194	1,002.00 INR
M1003	P195	1,003.00 INR
M1004	P196	1,004.00 INR
M1005	P197	1,005.00 INR
M1006	P198	1,006.00 INR

See the below Image from RSRT, i.e. execute the report in RSRT then see Input and Output like below.

Text symbols:	
Description	Value
Enter Month & Year	06.2011
Fy Period from Month	JUN 2011
Fy Period from Month	003.2011
Author	SURI2444
Last Changed By	DEV_CAT2
InfoProvider	ZIC_DEM01
Query Technical Name	ZDEM01
Query Description	Demo1
Key Date	01.06.2011
Changed At	01.06.2011 08:41:03
Current User	DEV_CAT2
Last Refreshed	01.06.2011 08:58:47
Status of Data	31.05.2011 10:15:10
Relevance of Data (Da)	31.05.2011
Relevance of Data (Ti)	10:15:10
Cal. year / month	06.2011
Fiscal Year Variant	Apr.- March, 4 special periods

Related Content

[Using Customer Exit Variables in BW Reports Part - 4](#)

[Using Customer Exit Variables in BW Reports Part - 3](#)

[How to use Customer Exit Variables in BW Reports: Part - 2](#)

[Using Customer Exit Variables in BW or BI Reports Part - 1](#)

[Using Text Variables with Customer Exits in Report Headings](#)

[Using Text Variables with Customer Exits in Report Headings](#)

[Variables of Type Customer Exit](#)

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