How to Use Customer Exit Variables in BW/BI Reports: Part 2

SAP

Applies to:

SAP BW 3.5, Will also work on SAP BI 7.

For more information, visit the Business Intelligence homepage.

Summary

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

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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 two types of variables.

1.   How to use the Characteristic Customer Exit Variables in BW/BI Reports.

2.   How to use the Text Variables in BW/BI Reports.

Live Scenarios:

In some cases the requirement is like below….

User will give some text/value as Input for Text variable and they need to get the report result as per their input.

E.g.: If user input for the Text Variable is "A" then he want to see the Sales data related to all PA01 to PA05 Plants (Actually in System, I have Plants from PA01 to PA20, but users want to see the Sales data from PA01 to PA05 Plants only and users don't want to enter Plants information in the Report Variables, he just wants to give some Text/Value in Text variable.), if user input for the Text Variable is "B" then he want to see the Sales data from PB01 to PB05 Plants (Actually in System, I have Plants from PB01 to PB20).

In the above example I taken for Plants, in other cases it may differ, i.e. we can use this logic for G/L Accounts, (If User will give IND as input for Text Variable, then he want to see all Transactions related to India G/L Account 0000001 to 0000009. If User will give USD as input for Text Variable, then he wants to see all Transactions related to India G/L Account 0000010 to 0000019….etc,).

Steps

1.　　　Create a Text Variable like below.

Create ZV_TXT1 variable, the properties are..

Type of Variable	= Text
Variable Name	= ZV_TXT1
Processing by	= User Entry/Default Value
Characteristic	= CalenderDay
Variable Entry	= Mandatory
Length of Input Field	= 0004

Check ready for input.

2.   Create Customer Exit Variable on Plant (0PLANT)

Create ZPLANT variable on 0PLANT, the properties are..

Type of Variable   = Characteristic value

Variable Name   = ZPLANT

Processing by   = Customer Exit

Characteristic   = Plant

Variable Represents   = Interval

Variable Entry   = Mandatory

Don't Check ready for input.

Code:

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

Click on **Components**

Double Click on **EXIT_SAPLRRS0_001**

Double Click on **INCLUDE ZXRSRU01** .

```
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  RRO01_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  RRO04_S_CUSTOMER OPTIONAL
*"----------------------------------------------------------------------


  INCLUDE ZXRSRU01 .


ENDFUNCTION.
```

Write the Following Code in the ABAP Editor.

```
*----------------------------------------------------------------------*
*    INCLUDE ZXRSRU01                                                   *
*----------------------------------------------------------------------*

DATA: L_S_RANGE TYPE RSR_S_RANGESID,
      LOC_VAR_RANGE LIKE RRRANGEEXIT,
      ZPL TYPE CHAR4.



IF i_step = 2.

 CASE i_vnam.

***********To get the Plant details (interval) as per the user input data**************

********************Surendra Kumar Reddy Koduru***28-05-2009************************

  WHEN 'ZPLANT'.


    LOOP AT i_t_var_range INTO loc_var_range WHERE vnam = 'ZV_TXT1'.

        CLEAR: l_s_range.
        ZPL = loc_var_range-low.


        CASE ZPL.
          WHEN 'A'.
            l_s_range-low   = 'PA01'.
            l_s_range-high  = 'PA05'.
            l_s_range-sign  = 'I'.
            l_s_range-opt   = 'BT'.

          WHEN 'B'.
            l_s_range-low   = 'PB01'.
            l_s_range-high  = 'PB05'.
            l_s_range-sign  = 'I'.
            l_s_range-opt   = 'BT'.

          WHEN OTHERS.

            l_s_range-low   = 'PA01'.
            l_s_range-high  = 'PZ10'.
            l_s_range-sign  = 'I'.
            l_s_range-opt   = 'BT'.

        ENDCASE.

      APPEND l_s_range TO e_t_range.

    ENDLOOP.

  ENDCASE.
ENDIF.


*******************************************End************************************
```
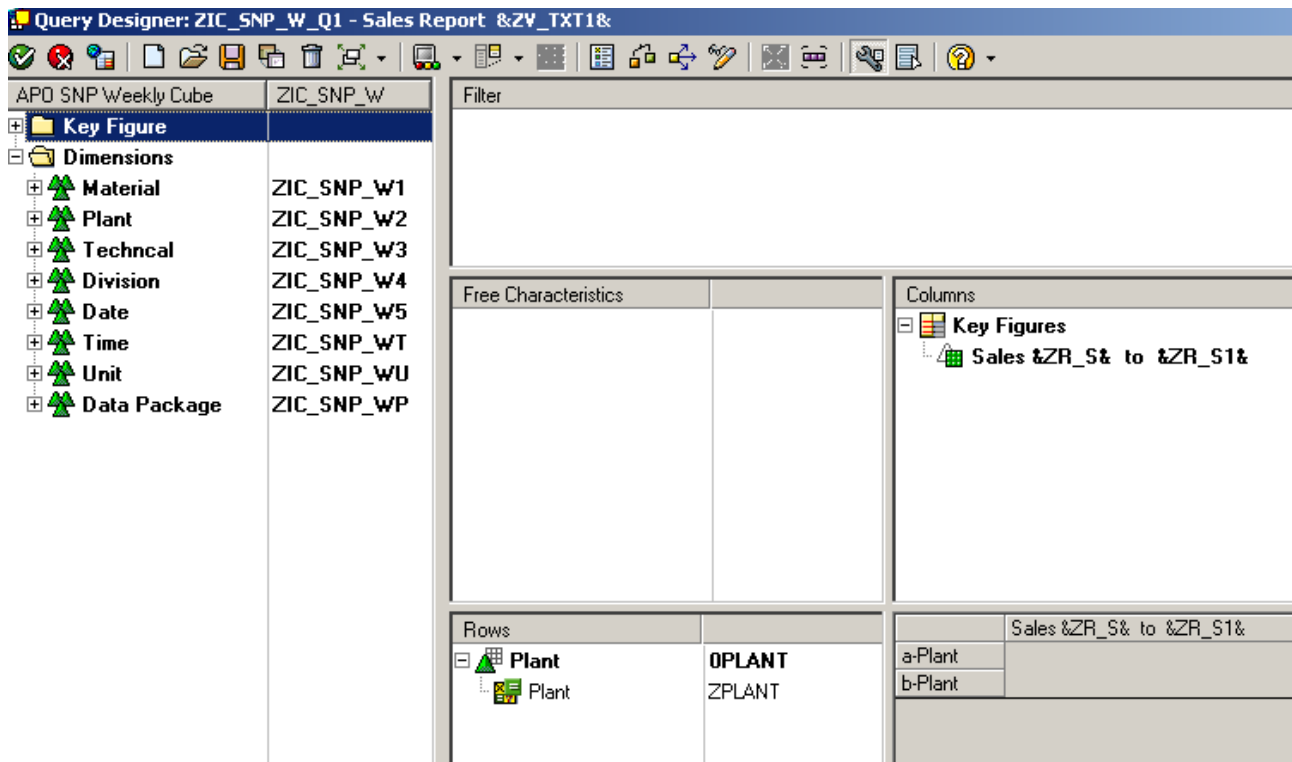
Report Designer:

Give Text Variable **ZV_TXT1** in Query Properties. (Refer Page No 4).
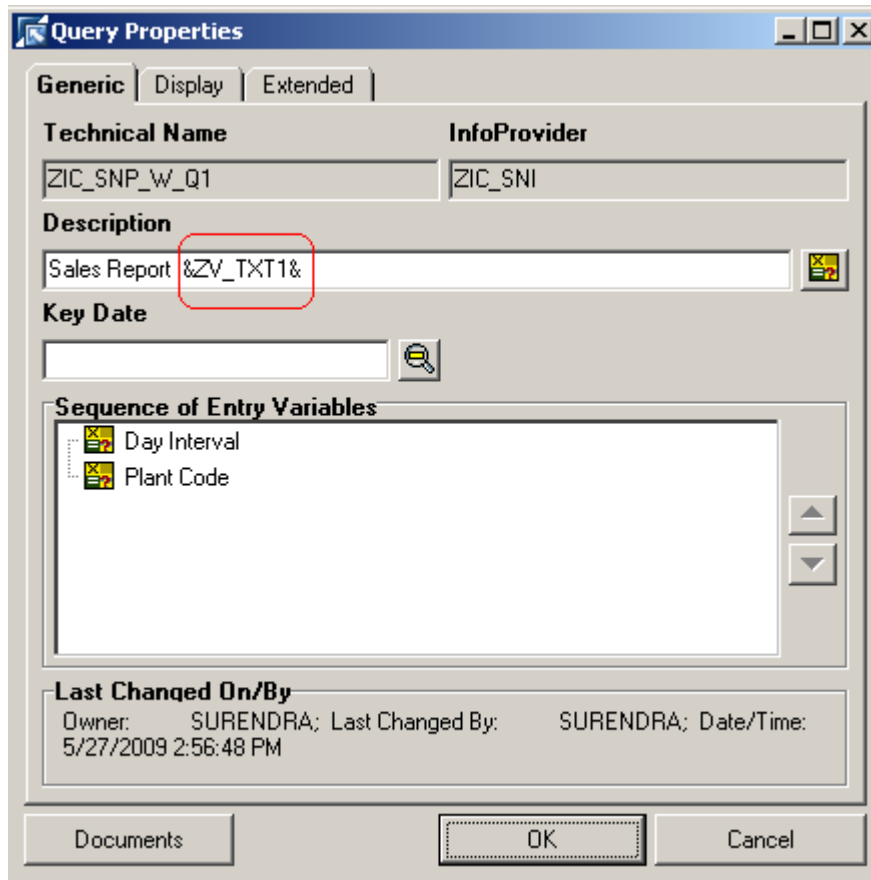
In Report Rows:

Drag and Drop **Plant** Characteristic and restrict with the Customer Exit variable **ZPLANT** (Refer Page No 5).

In Report Columns:

Create New Selection and Drag and Drop 0AMOUNT Key figure and 0CALDAY and restrict 0CALDAY with ZDAY_IN User Input variable .(About this variable Refer. Article: **Using Customer Exit Variables in BW/BI Reports Part - 1**)

URL for Part-1:

https://www.sdn.sap.com/irj/scn/go/portal/prtroot/docs/library/uuid/20f119d9-922d-2c10-88af-8c016638bd90

In Description give Text variables ZR_S and ZR_S1. .(About this variable Refer. Article: **Using Customer Exit Variables in BW/BI Reports Part - 1**).

ZR_S : For to display From Date.

ZR_S1 : For to display To Date.

This is for to display User given Date Range Sales Data and Date Column heading..

Execute the Report :

Give Date range (MM/DD/YYYY) and Plant Code = "**A**" like below:

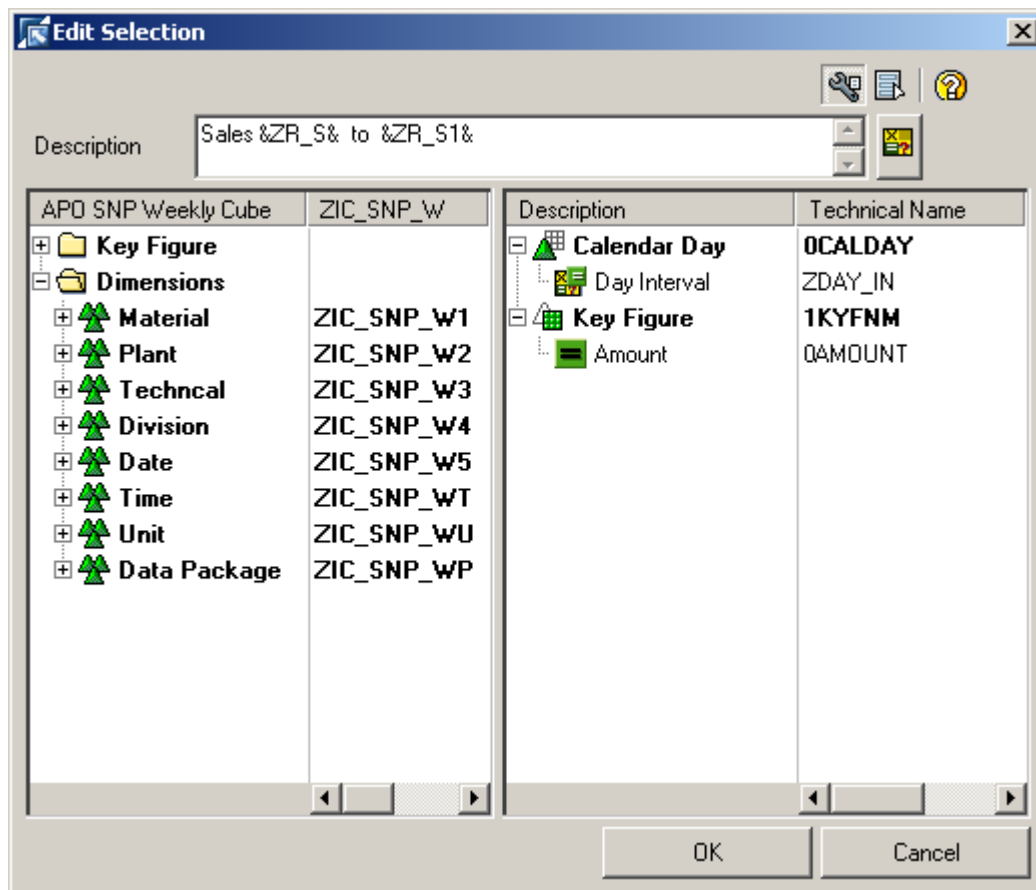| ☞ ZIC_SNP_W_Q1: Sales Report &ZV_TXT1&	⊠
Day Interval 5/1/2009 ⊡ to 5/27/2009	
Plant Code A A	
⊕ 🔒 Check 🔷 💾 📇 ✖	

See the Report Result: Plant Code = "**A**".

Sales Report A

Key Pigures	
Plant	

Plant	PA01..PA05

Plant	Sales 01.05.2009 to 27.05.2009
PA01	64 INR
PA02	55 INR
PA03	57 INR
PA04	62 INR
PA05	81 INR
Result	318 INR

☞ ZIC_SNP_W_Q1: Sales Report &ZV_TXT1&	⊠
Day Interval 5/1/2009 to 5/27/2009	
Plant Code B B	
⊕ 🔒 Check 🔷 💾 📇 ✖	

See the Report Result: Plant Code = "B"

Sales Report B	
Key Pigures	
Plant	
Plant	PB01..PB05
Plant	Sales 01.05.2009 to 27.05.2009
PB01	64 INR
PB02	65 INR
PB03	66 INR
PB05	67 INR
Result	262 INR

ZIC_SNP_W_Q1: Sales Report &ZV_TXT1&

Day Interval	5/1/2009	to	5/27/2009	
Plant Code	C		C	

Check

See the Report Result: Plant Code = "**C**".

Sales Report C	
Key Pigures	
Plant	
Plant	PA01..PZ10
Plant	Sales 01.05.2009 to 27.05.2009
PA01	64 INR
PA02	55 INR
PA03	57 INR
PA04	62 INR
PA05	81 INR
PA06	113 INR
PA07	106 INR
PA08	384 INR
PA09	62 INR
PA10	63 INR
PB01	64 INR
PB02	65 INR
PB03	66 INR
PB05	67 INR
PB06	68 INR
PC03	19 INR
PD01	20 INR
Result	1,415 INR

Related Content

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

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

[Raise Event from ECC](#)

[Triggering Events from ABAP Programs](#)

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