

Profit center determination via substitution rule in ECC

Steps to fulfill requirement

1. CRM: Sales group is part of BAPISDCOSV and is passed to ECC
2. ECC : Extend BAPISDCOSV with sales data (i.e. sales group)
3. ECC: use exit IAOM_ATTRIBUTES to add sales group to characteristic table (ls_obj_desc-attributes.)
4. ECC: User exit `PERFORM CALL_USER_EXIT_001 (RKECRM_PCA_40)` to populate structure LD_PCASUB , field VKGRP with sales group used by substitution rule

CRM

Standard logic put the (ECC) sales group into the CO interface.

ECC

Extend Structure BAPISDCOSV with Sales Data

The sales data fields that do exist in the parameter structure BAPISDCOSV are missing in ECC

CRM:

Dictionary: Display Structure

Structure: BAPISDCOSV Active
Short Description: CRM Sales: Servicefelder zur CO-Kontierungsfindung

Attributes Components Entry help/check Currency/quantity fields

Component	Typing Method	Component Type	Data Type	Length	Deci...	Short Description
PRODUCT_ID	1 Types	COMT_PRODUCT_ID	CHAR	40	0	Product ID
AC_NOCOST	1 Types	CRMT_NOCOST	CHAR	1	0	No Cost Expected
SALESORG	1 Types	VKORG	CHAR	4	0	Sales Organization
DISTR_CHAN	1 Types	VTWEG	CHAR	2	0	Distribution Channel
DIVISION	1 Types	SPART	CHAR	2	0	Division
SALES_GRP	1 Types	VKGRC	CHAR	3	0	Sales group
SALES_OFF	1 Types	VKBUR	CHAR	4	0	Sales office

ECC

Dictionary: Display Structure

Structure: BAPISDCOSV Active
Short Description: CRM Sales: Service Fields for CO Account Assignment Determ.

Attributes Components Entry help/check Currency/quantity fields

Predefined Type 44 / 52

Component	Typing Method	Component Type	Data Type	Length	Deci...	Short Description
TOP_PROCESS_TYPE	1 Types	CRM TOP_PROCESS_TYP...	CHAR	4	0	Leading Business Transaction Type
PRODUCT_ID	1 Types	COMT PRODUCT_ID CO	CHAR	40	0	Product ID
AC_NOCOST	1 Types	IP COSTS	CHAR	1	0	No Expected Costs
APPEND	1 Types	ZBAPI SALES DATA	...	0	0	Sales Data
SALESORG	1 Types	VKORG	CHAR	4	0	Sales Organization
DISTR_CHAN	1 Types	VTWEG	CHAR	2	0	Distribution Channel
DIVISION	1 Types	SPART	CHAR	2	0	Division
SALES_GRP	1 Types	VKGGRP	CHAR	3	0	Sales Group
SALES_OFF	1 Types	VKBUR	CHAR	4	0	Sales Office

ECC: use exit to add sales group to characteristic table

Add new filter value via TC IAOM4

Table View Edit Goto Selection Utilities(M) System Help

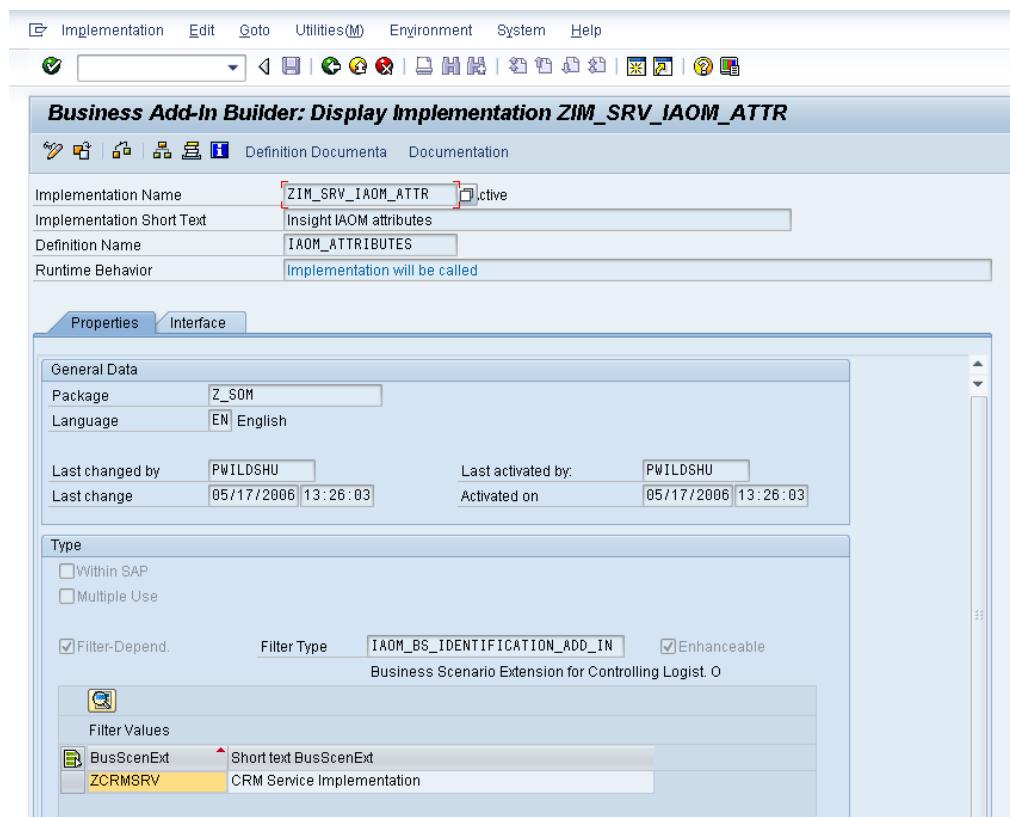
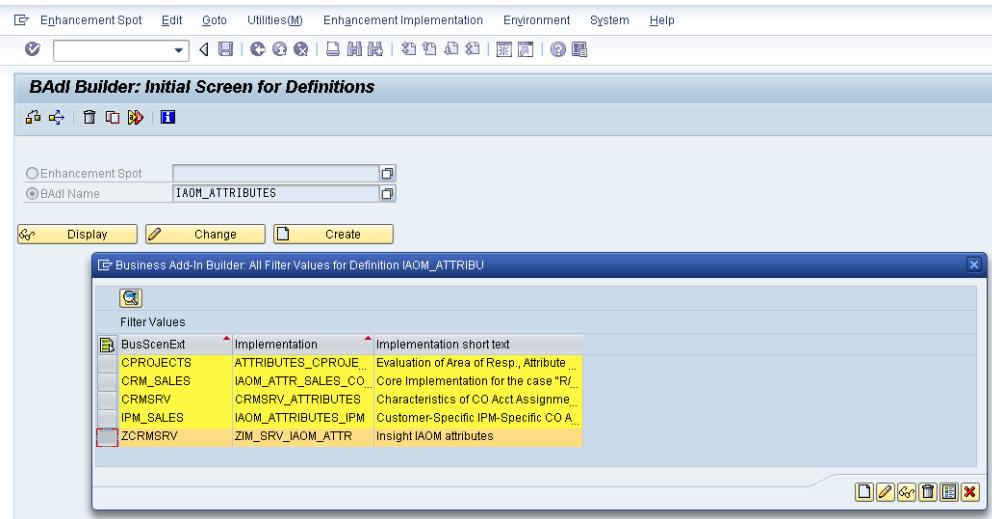
Display View "Business Scenario Extensions Control Table": Overview

Business Scenario Extensions Control Table

Business Scenario	Business Scenario Extens.	Business Scenario	Sort
CPROJECTS	cProjects Implementation	CPROJECTS	1
CRMFIN	CRM Financing Implementation	CRMFIN	1
CRMSRV	CRM Service Implementation	CRMSRV	1
CRM_SALES	CRM Sales Implementation	CRM_SALES	1
GRANTOR	Grantor Management	GRANTOR	1
IPM_SALES	IPM Contracts	CRM_SALES	10
OM	Outsourced Manufacturing	OM	1
ZCRMSRV	CRM Service Implementation	CRMSRV	2

Add Sales Group and Responsible Cost Center

Create new implementation for BADI IAOM_ATTRIBUTES



* ----- *

```

* METHOD if_ex_iaom_attributes~change_attrbts
*-----
* Change next internal order attributes:
* 1. Sales Group
* 2. Responsible Costcenter
*-----
* Pieter Wildschut 01/11/2006 initial version
*-----
METHOD if_ex_iaom_attributes~change_attrbts.

DATA: dfies_tab          TYPE TABLE OF dfies ,
      dfies            TYPE dfies,
      tabname          TYPE dfies-tabname.
DATA: lv_funcname        TYPE rs381_fnam.
DATA: lv_object_no       TYPE j_objnr.
DATA: ls_bapisdcosv     TYPE bapisdcosv.

FIELD-SYMBOLS <process_type> TYPE ANY.
FIELD-SYMBOLS <object_id> TYPE ANY.
FIELD-SYMBOLS <current_object_id> TYPE ANY.

ASSIGN COMPONENT 'PROCESS_TYPE' OF STRUCTURE i_data
TO <process_type>.

ASSIGN COMPONENT 'OBJECT_ID' OF STRUCTURE i_data
TO <object_id>.

ASSIGN COMPONENT 'CURRENT_OBJECT_ID' OF STRUCTURE i_data
TO <current_object_id>.

CONCATENATE 'OR' <object_id> INTO lv_object_no.

ls_bapisdcosv = i_data.
* get current attributes and merge them with new
CALL FUNCTION 'ZSM_GET_CURR_ATTR'
  EXPORTING
    iv_object_id    = <current_object_id>
  IMPORTING
    es_bapisdcosv = ls_bapisdcosv
EXCEPTIONS
  incorrect_call   = 1
  error           = 2
  not_assigned    = 3
  OTHERS          = 4.

IF sy-subrc <> 0 AND sy-subrc NE 3.
  EXIT.
ENDIF.

*
FIELD-SYMBOLS <lw_bapisdcosv> TYPE ANY.
DATA: lw_bapisdcosv      TYPE REF TO data.
CREATE DATA lw_bapisdcosv TYPE bapisdcosv.
ASSIGN lw_bapisdcosv->* TO <lw_bapisdcosv>.

FIELD-SYMBOLS <lp_bapisdcosv> TYPE ANY.
DATA: lp_bapisdcosv      TYPE REF TO data.
CREATE DATA lp_bapisdcosv TYPE bapisdcosv.
ASSIGN lp_bapisdcosv->* TO <lp_bapisdcosv>.

* sales group
CALL FUNCTION 'ZSM_FM_INTORD_ATTR_VKGRP'

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EXPORTING
  i_data                      = i_data
  i_obj_stndrd_acc_attributes = i_obj_stndrd_acc_attributes
CHANGING
  iaomt_message_tab           = e_messages
  et_object_attributes         = c_object_attributes.

* responsible costcenter
CALL FUNCTION 'ZSM_FM_INTORD_ATTR_KOSTV'
  EXPORTING
    i_data                      = i_data
    i_obj_stndrd_acc_attributes = i_obj_stndrd_acc_attributes
  CHANGING
    iaomt_message_tab           = e_messages
    et_object_attributes         = c_object_attributes.

ENDMETHOD.

```

```

FUNCTION ZSM_FM_INTORD_ATTR_VKGRP.
*-----
****"Local Interface:
*"
  IMPORTING
    REFERENCE(I_DATA) TYPE ANY
  REFERENCE(I_OBJ_STNDRD_ACC_ATTRIBUTES) TYPE
    IAOMT_OBJECT_ATTRIBUTE_TAB
*"
  CHANGING
    REFERENCE(IAOMT_MESSAGE_TAB) TYPE IAOMT_MESSAGE_TAB
  REFERENCE(ET_OBJECT_ATTRIBUTES) TYPE
    IAOMT_OBJECT_ATTRIBUTE_TAB
*-----
lv_data = i_data.

* Add attribute
CALL FUNCTION 'ZSM_ASSIGN_VALUE'
  EXPORTING
    iv_fieldname      = 'SALES_GRP'
    iv_data          = lv_data
  IMPORTING
    et_object_attributes = et_object_attributes
  EXCEPTIONS
    invalid_fieldname = 1
    error             = 2
    OTHERS            = 3.
  IF sy-subrc NE 0.
  ENDIF.

ENDFUNCTION.

```

```

FUNCTION zsm_assign_value.
*-----
****"Local Interface:
*"
  IMPORTING
    REFERENCE(IV_FIELDNAME) TYPE FIELDNAME
  REFERENCE(IV_DATA) TYPE BAPISDCOSV

```

```

*"
  EXPORTING
    REFERENCE(ET_OBJECT_ATTRIBUTES) TYPE IAOMT_OBJECT_ATTRIBUTE_TAB
  EXCEPTIONS
    INVALID_FIELDNAME
    ERROR
  -----
FIELD-SYMBOLS : <f> TYPE any,
               <val> TYPE any.

DATA: lv_object_attributes TYPE iaom_object_attribute.
CLEAR lv_object_attributes.

READ TABLE et_object_attributes INTO lv_object_attributes
WITH KEY data_element = iv_fieldname.

IF sy-subrc NE 0 OR lv_object_attributes-value IS INITIAL.

  ASSIGN COMPONENT iv_fieldname OF STRUCTURE iv_data TO <f>.
  IF sy-subrc NE 0.
    RAISE invalid_fieldname.
  ENDIF.

  ASSIGN COMPONENT 'VALUE' OF STRUCTURE lv_object_attributes TO <val>.
  IF sy-subrc NE 0.
    RAISE error.
  ENDIF.

  <val> = <f>.

* add attribute
  lv_object_attributes-data_element = iv_fieldname.
  APPEND lv_object_attributes TO et_object_attributes.
ENDIF.

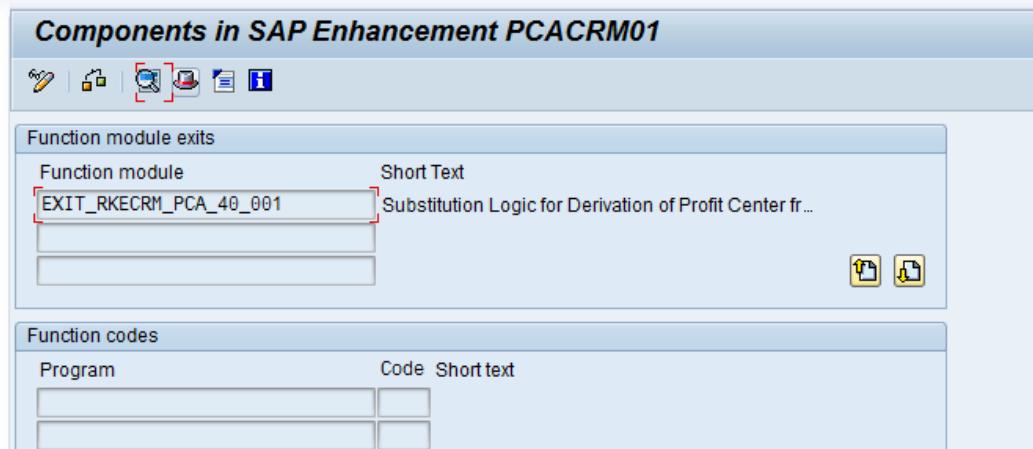
ENDFUNCTION.

```

Activate Customer Function 001 for enhancement PCACRM01

Code: Populate the sales group into parameter CH_PCASUB so the substitution rule can use it.

SMOD:



```
FUNCTION EXIT_RKECRM_PCA_40_001.
*"-->
*"-->Lokale Schnittstelle:
*"-->    IMPORTING
*"-->        VALUE(IM_DATE) LIKE COBL-BUDAT
*"-->        VALUE(IM_KOKRS) LIKE COBL-KOKRS
*"-->        VALUE(IM_BUKRS) LIKE COBL-BUKRS
*"-->        VALUE(IM_WERKS) LIKE MARC-WERKS
*"-->        VALUE(IM_MATNR) LIKE MARC-MATNR
*"-->        VALUE(IM_BUKRS_OF_WERKS) LIKE COBL-BUKRS
*"-->        VALUE(IM_PRCTR_IN_CHARTAB) TYPE C
*"-->    TABLES
*"-->        T_CHARTAB STRUCTURE IAOM_OBJECT_ATTRIBUTE
*"-->    CHANGING
*"-->        REFERENCE(CH_PCASUB) LIKE PCASUB STRUCTURE PCASUB
*"-->        REFERENCE(CH_PRCTR) LIKE COBL-PRCTR
*"-->        REFERENCE(CH_CALL_SUBSTITUTION) TYPE C
*"-->        REFERENCE(CH_SUBSTID) LIKE GB92-SUBSTID
*"-->
*"-->
INCLUDE ZXKECRM40PCAU01 .

ENDFUNCTION.

*&-----*
*&   Include           ZXKECRM40PCAU01
*&-----*
```

```
DATA: LS_CHARTAB TYPE IAOM_OBJECT_ATTRIBUTE.

LOOP AT T_CHARTAB INTO LS_CHARTAB WHERE DATA_ELEMENT = 'SALES_GRP'.
```

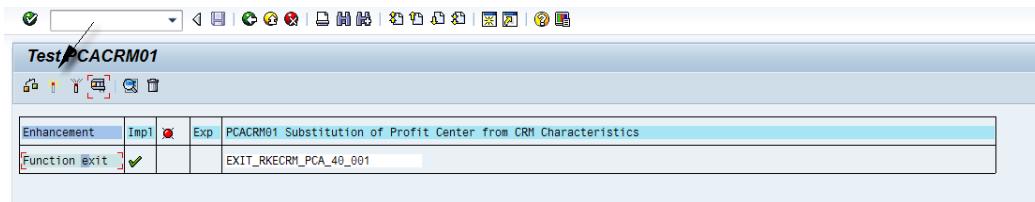
```

ENDLOOP.

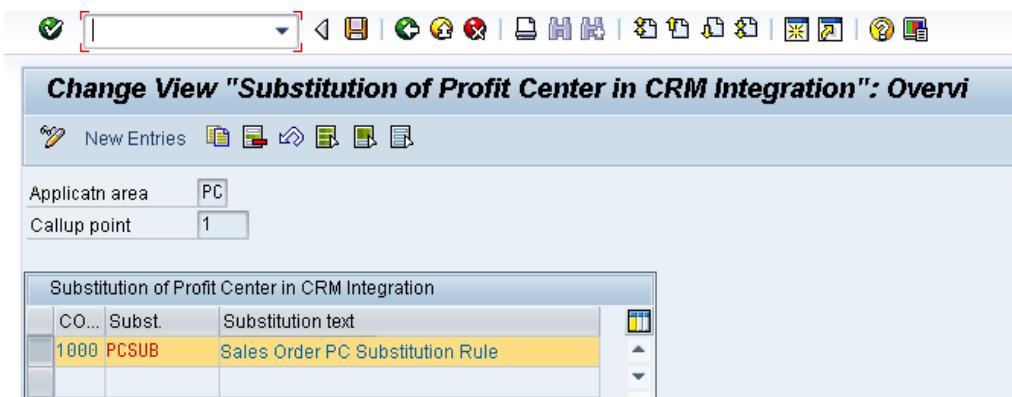
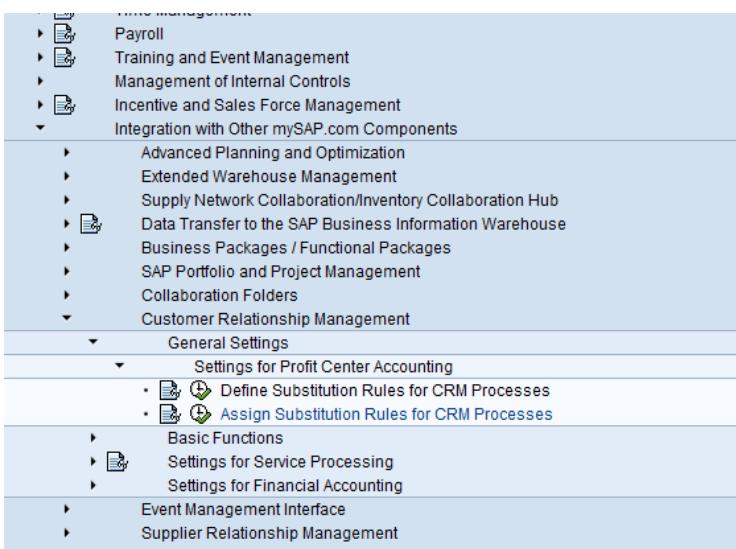
IF SY-SUBRC = 0.
  CH_PCASUB-VKGRP = LS_CHARTAB-VALUE.
ENDIF.

```

Do not forget to activate!



Profit Center substitution rule:



Function PI_CRM_GET_PROFITCENTER

Program RKECRM_PCA_40

```
...
  IF LD_RC EQ CO NOTHING_FOUND.
    LD_PRCTR_IN_CHARTAB = CO_FALSE.
  ELSE.
    LD_PRCTR_IN_CHARTAB = CO_TRUE.
  ENDIF.

  IF ( NOT LD_MATNR IS INITIAL ) AND
    ( NOT LD_WERKS IS INITIAL ) AND
    ( LD_PRCTR_IN_CHARTAB EQ CO_FALSE ) AND "do not change given value
    ( LD_BUKRS EQ LD_BUKRS_OF_WERKS )."only non-X-company
    PERFORM GET_PRCTR_FROM_MARC USING LD_MATNR
                                LD_WERKS
                                LD_KOKRS
                                CHANGING LD_PRCTR.
  ENDIF.

  IF LD_PRCTR IS INITIAL.          "to make this info
    PERFORM GET_DEFAULT_PRCTR USING LD_KOKRS      "available in the
                                CHANGING LD_PRCTR. "user exit
  ENDIF.

  ...
  PERFORM GET_SUBSTID USING LD_KOKRS
                        CHANGING LD_SUBSTID.

  IF LD_SUBSTID IS INITIAL OR      "no substitution rule maintained
    LD_PRCTR_IN_CHARTAB EQ CO_TRUE. "do not change a given CRM PC
    LD_CALL_SUBSTITUTION = CO_FALSE.
  ELSE.
    LD_CALL_SUBSTITUTION = CO_TRUE.
  ENDIF.

  * call user exit

  PERFORM CALL_USER_EXIT_001
    USING PT_CHARTAB
    LD_KOKRS
    LD_BUKRS
    LD_WERKS
    LD_MATNR
    LD_BUKRS_OF_WERKS
    LD_PRCTR_IN_CHARTAB
    P_DATE
    CHANGING LD_PCASUB
    LD_PRCTR
    LD_CALL_SUBSTITUTION
    LD_SUBSTID.

  IF LD_CALL_SUBSTITUTION EQ CO_TRUE.
  * call substitution
    CLEAR LD_PCASUB-PRCTR.
```

```

        PERFORM CALL_SUBSTITUTION USING LD_SUBSTID
                           CHANGING LD_PCASUB.
        IF NOT LD_PCASUB-PRCTR IS INITIAL.
          LD_PRCTR = LD_PCASUB-PRCTR.
        ENDIF.
      ENDIF.

* PRCTR_NOT_FOUND exception -> derive PRCTR in CO-PA
  PERFORM CHECK_FOR_INITIAL_PRCTR USING LD_PRCTR
                           CHANGING P_RC
                           P_RETURN.

  IF p_rc NE co_success. EXIT.ENDIF.

* check if pc is valid
  PERFORM CHECK_PRCTR USING LD_PRCTR
                           LD_KOKRS
                           LD_BUKRS
                           P_DATE
                           CHANGING P_RC
                           P_RETURN.

  IF P_RC EQ CO_SUCCESS.
    P_PRCTR = LD_PRCTR.
    P_RC = CO_SUCCESS.
    EXIT.
  ELSE.
    PERFORM GET_DEFAULT_PRCTR USING LD_KOKRS
                           CHANGING LD_PRCTR.

    IF NOT LD_PRCTR IS INITIAL.           "dummy PC can be used
      P_PRCTR = LD_PRCTR.
      P_RC = CO_SUCCESS.
      EXIT.
    ENDIF.
* PRCTR_NOT_VALID exception -> derive PRCTR in CO-PA
* p_rc and p_return have been set within FORM check_prctr
  CLEAR P_PRCTR.
  EXIT.
ENDIF.

ENDFORM.

```