

Adding Custom Fields to Contract Account Screen



Applies to:

This article applies to ISU-FICA & ABAP.
For more information, visit the [ABAP homepage](#).

Summary

This article explains how to add custom fields to contract account create, change, and display screens.

Author: Venkateshwarlu Putcha

Company: Tata Consultancy Services Ltd.

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Author Bio



Venkateshwarlu Putcha is an SAP Technical & Functional Consultant with Tata Consultancy Services Ltd., India for nearly 2 years. As a whole he has 6 years of experience in ABAP and ISU-FICA areas.

He works in SAP Functional & Technical area (ABAP & FICA) for ISU, CRM, SD, and MM.

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Introduction

Usually whenever we hear the word of adding custom fields to a transaction the first thing we will do is searching for a field exit. This is fine if you are working in R/3 but in case of ISU, SAP has provided many options. I am giving you one of the examples in this document i.e., adding custom fields to contract account screens CAA1, CAA2, and CAA3. Of course after reading this document you may also practice adding custom fields to business partner screens FPP1, FPP2, and FPP3.

Procedure for Adding Custom Fields to Contract Account Screen

To add custom field to Contract account details screens CAA1, CAA2, & CAA3, you have to enhance structure CI_FKKKVP. Add your custom fields in structure CI_FKKKVP and activate it.

Go to transaction CAWM.

You can see the following screen on your SAP Easy Access screen.

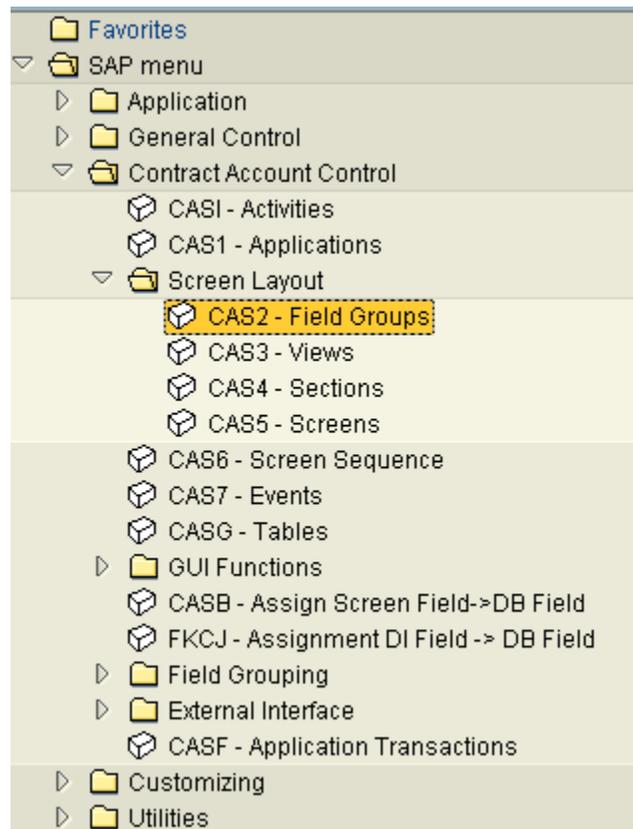


Figure 1: Initial screen of CAWM transaction

Double click on 'Field Groups' (or T-Code CAS2) option. A new screen will appear with list of field groups.

Click on New Entries button and add your new field group as below.

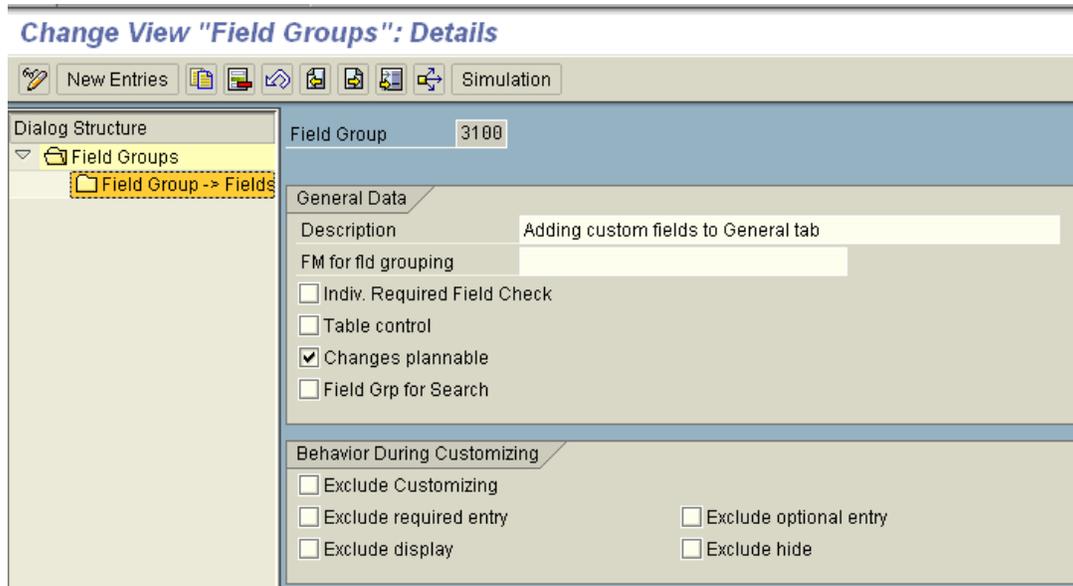


Figure 2: Adding new Field Group

Now from the above screen double click on 'Field Group->Fields' in the left pane of the window.

Click on New entries button and add your custom fields to the created field group as shown in the screen below. In the screen below ZZ_INDICATOR is a custom field added to structure CI_FKKVKP.

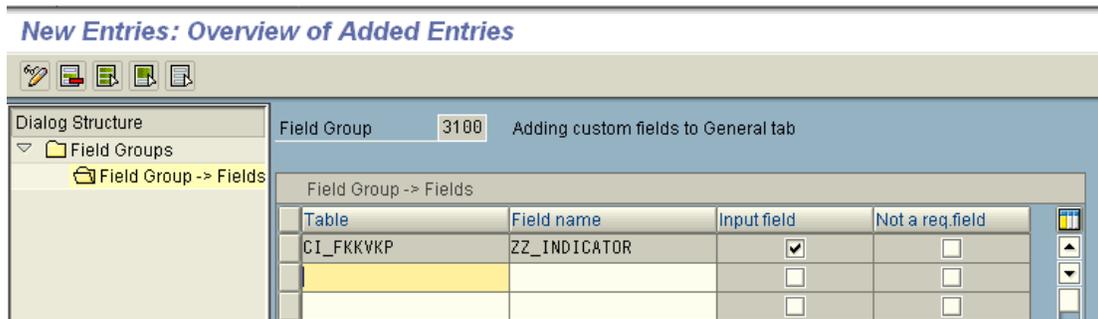


Figure 3: Defining structure to get the fields

Now Save your changes. While saving your changes you may get warning message, but don't worry about that. Once you complete further steps you would not get this warning message again.

- Go to SE80 and create a new function group.
- Add a new screen say 0100.
- Click on the Layout button as shown in the screenshot below and design the screen by adding you new field ZZ_INDICATOR to it.

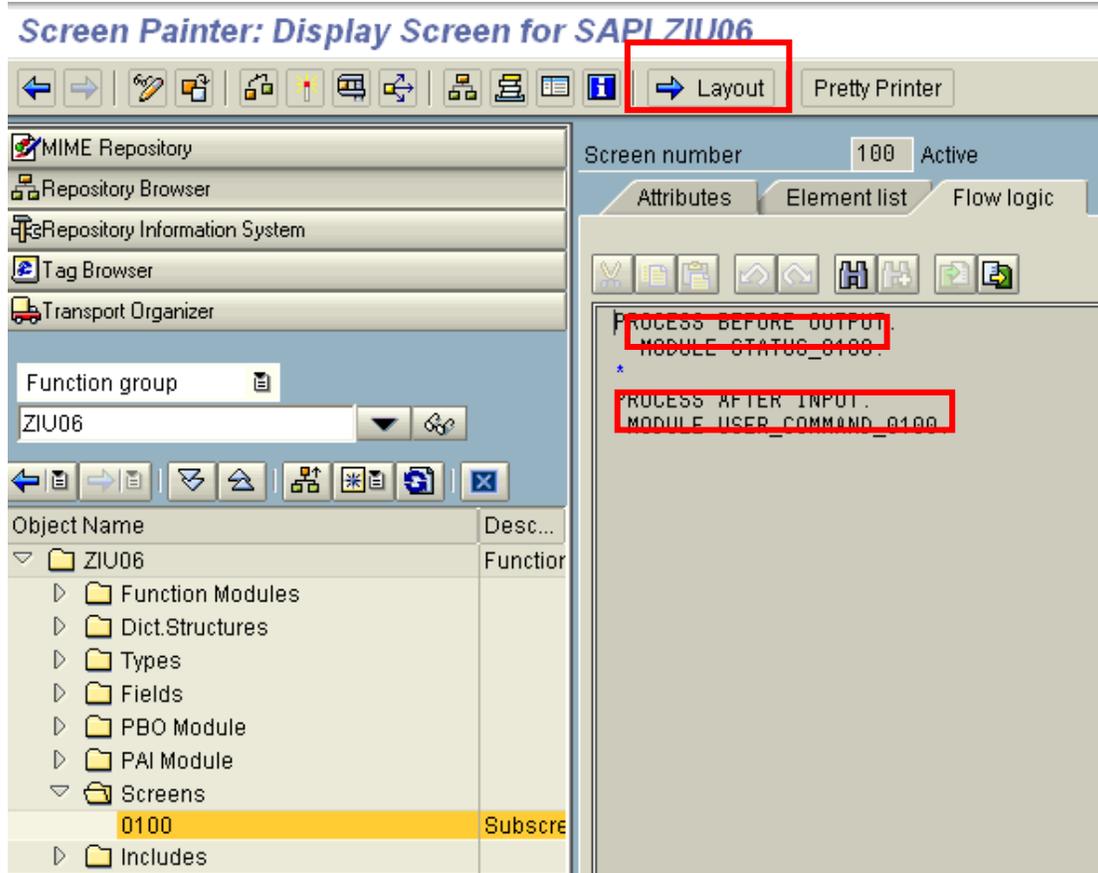


Figure 4: Writing Flow logic for the new custom fields

- Uncomment modules STATUS_0100 and USER_COMMAND_0100.
- Write the code in PBO (STATUS_0100) and PAI (USER_COMMAND_0100) modules as below:

Write the code for PBO Module STATUS_0100:

```
MODULE status_0100 OUTPUT.
* Process before output
  CALL FUNCTION 'BUS_PBO'.
ENDMODULE.                " STATUS_0100  OUTPUT
```

Write the code for PAI Module USER_COMMAND_0100:

```
MODULE USER_COMMAND_0100 INPUT.
* Process after input
  CALL FUNCTION 'BUS_PAI'.
ENDMODULE.                " USER_COMMAND_0100  INPUT
```

Create two new function modules within the same function group for PBO and PAI with names something like Z_BEFORE_OUTPUT and Z_AFTER_ENTRY.

Define internal tables and work areas globally in the TOP include as specified below:

```

*Tables
TABLES: ci_fkkvvp.
*Structure for FKKVVP
TYPES:BEGIN OF gs_fkkvvp.
        INCLUDE STRUCTURE fkkvvp.
TYPES:END OF gs_fkkvvp.
*Structure for FKKVK
TYPES:BEGIN OF gs_fkkvk.
        INCLUDE STRUCTURE fkkvk.
TYPES:END OF gs_fkkvk.
*Internal tables
DATA: gt_fkkvvp TYPE STANDARD TABLE OF gs_fkkvvp.
*Work areas
DATA: gw_fkkvvp TYPE gs_fkkvvp,
        gw_fkkvk  TYPE gs_fkkvk.

```

Write the code in function modules Z_BEFORE_OUTPUT as below:

```

FUNCTION Z_BEFORE_OUTPUT.
*"-----
*" "Local interface:
*"-----
* To get the contract account category.
CALL FUNCTION 'VKK_FICA_FKKVK_GET'
  IMPORTING
    E_FKKVK = GW_FKKVK.
* To get the contract account partner-specific details.
CALL FUNCTION 'VKK_FICA_FKKVVP_GET'
  TABLES
    T_FKKVVP = GT_FKKVVP.
CLEAR: GW_FKKVVP,
        CI_FKKVVP.
* Initial checking is not required.
* Read the contract account partner.
READ TABLE GT_FKKVVP INTO GW_FKKVVP INDEX 1.
IF SY-SUBRC = 0.
* Assign the values of the additional fields in CI_FKKVVP
* into the work area
  CI_FKKVVP-ZZ_PRF_PAY_DATE = GW_FKKVVP-ZZ_PRF_PAY_DATE.
  CI_FKKVVP-ZZ_ANNL_DD_PAYER = GW_FKKVVP-ZZ_ANNL_DD_PAYER.
  CI_FKKVVP-ZZ_INDICATOR    = GW_FKKVVP-ZZ_INDICATOR.
ENDIF.
ENDFUNCTION.

```

Write the code in function module Z_AFTER_ENTRY as below:

```

FUNCTION Z_AFTER_ENTRY.
*"-----
*"Local interface:
*"-----
* To get the activity type
CALL FUNCTION 'BUS_PARAMETERS_ISSTA_GET'
  IMPORTING
    E_AKTYP = GV_AKTYP.
* Check activity type is not for display
CHECK GV_AKTYP NE GC_03.
* To get the contract account partner-specific details.
CALL FUNCTION 'VKK_FICA_FKKVKP_GET'
  TABLES
    T_FKKVKP = GT_FKKVKP.
IF NOT GT_FKKVKP[] IS INITIAL.
* Picking preferred payment date, annual DD payer and Credit
* voucher no into work area.
  GW_FKKVKP-ZZ_PRF_PAY_DATE      = CI_FKKVKP-ZZ_PRF_PAY_DATE.
  GW_FKKVKP-ZZ_ANNL_DD_PAYER     = CI_FKKVKP-ZZ_ANNL_DD_PAYER.
  GW_FKKVKP-ZZ_INDICATOR        = CI_FKKVKP-ZZ_INDICATOR.
  MODIFY GT_FKKVKP FROM GW_FKKVKP INDEX 1.
* Contract Acct Maint. in Bus.Partner Meth.
CALL FUNCTION 'VKK_FICA_FKKVKP_COLLECT'
  EXPORTING
    I_SUBNAME = 'CI_FKKVKP'
  TABLES
    PT_FKKVKP = GT_FKKVKP.
ENDIF.
ENDFUNCTION.

```

Now save and activate each module and function group.

Now go back to initial screen of CAWM transaction and double click on 'Views' (or T-Code CAS3) option from the initial screen. Now you can see the list of standard Views. You have to create your own view here to hold your field group 3100.

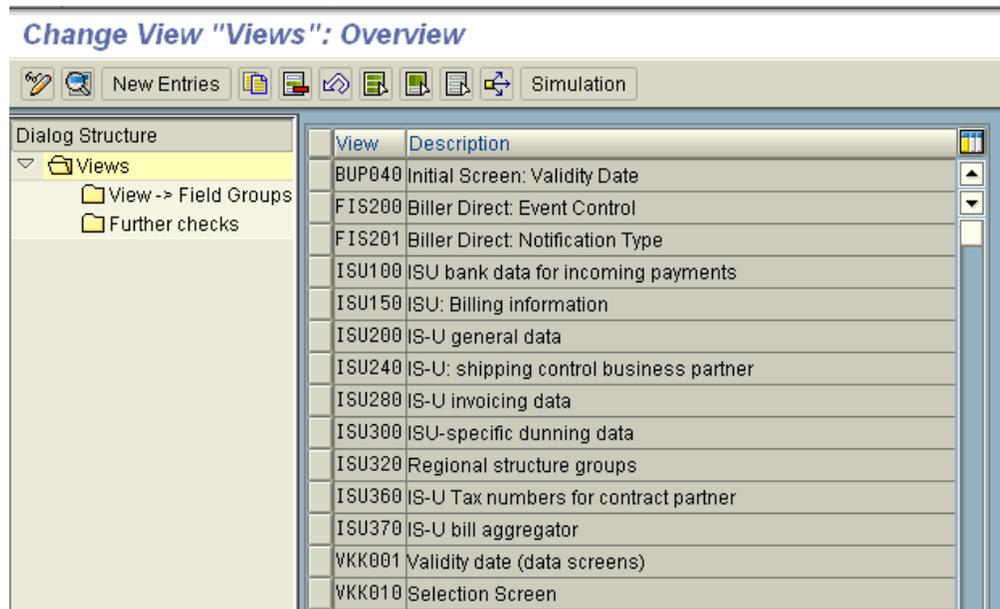


Figure 5: Adding custom View to hold custom field group

Once you click on New Entries button you can see the following screen where you have to add your own view for field group 3100.

Specify the Application area as VKK and specify differentiation type as 0 (if you want to display your new custom fields on General data tab. Refer search help for this).

After specifying the values the screen looks something like this

The screenshot shows the configuration for a custom view 'ZVIEW'. The 'General Data' section includes fields for Description, Application (VKK), Differentiation type (0), and Data set. It also has radio buttons for Entry view, Header data (DI), Dialog view (selected), and Search view. The 'Subscreen' section shows Program name (SAPLZIU06) and Screen number (0100). The 'Function Module' section lists 'Before screen callup', 'Before Output' (Z_BEFORE_OUTPUT), and 'After Entry' (Z_AFTER_ENTRY). The 'Views With Text Object' section has fields for Text object and Text key. The 'Screen Configuration' section has checkboxes for Initial screen, Data Screen, and Section fix.

Figure 6: Configuring custom View

Double click on 'View->Field Groups' from the left pane and click on New Entries button. Now add the field group 3100 here and save the changes.

The screenshot shows the 'Change View "View -> Field Groups": Overview' screen. It features a 'Dialog Structure' pane on the left with 'View -> Field Groups' selected. The main area shows a table with the following data:

Fld gr	Description
3100	Adding custom fields to General tab

Figure 7: Assign Field Group to custom View

Now go back to the initial screen of CAWM and double click on 'Sections' (or T-Code CAS4) option. You can see the following screen with different sections of contract account details screen. For example if you like to add your custom field to 'Account management data' section of the screen, select VKK110 and double click on 'Section->Views' option from the left pane of the window. Now add your custom ZVIEW3 to the list of views by clicking New Entries button and save the changes.

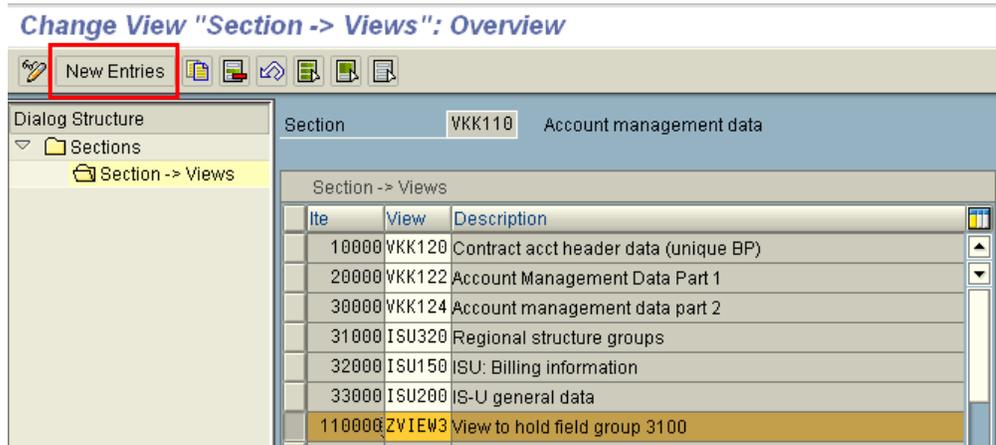


Figure 8: Assign created custom View to General tab of contract account screen

Now if you execute CAA1, CAA2, or CAA3, you can see your new custom field in the specified section of the screen. After completing this process you can see that Special plan indicator (ZZ_INDICATOR) field is added to your screen. Refer screenshot below of CAA2. Not only ZZ_INDICATOR, the fields appearing in red box below are all custom fields.

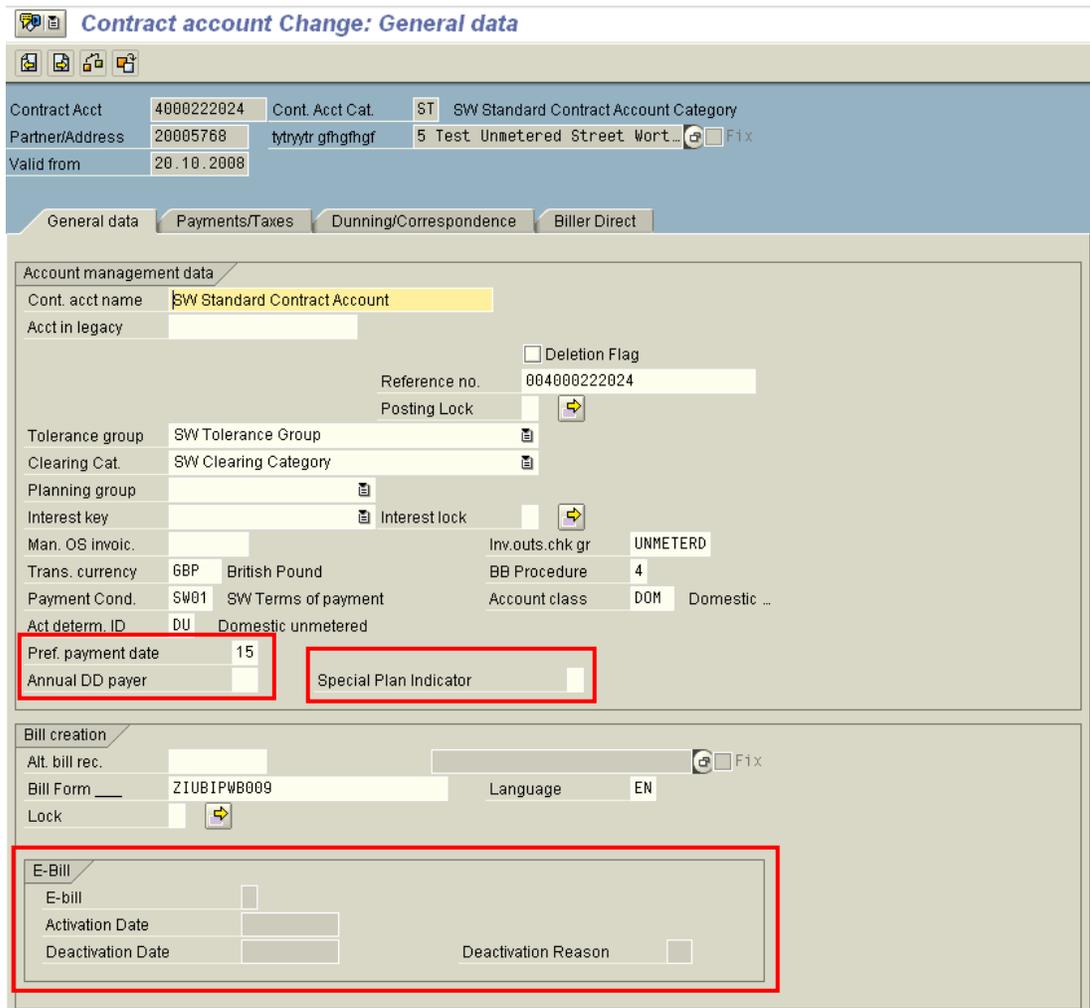


Figure 9: Custom fields in contract account change CAA2 screen

Setting Visibility of Standard/Custom Fields through Configuration

Sometimes you may have a situation where you need to make the custom and or standard fields Disable (read only), Hide or appear in Change mode only to a particular user group. Usually we will search for PBO module and try to change it (if it is permitted) or use access keys. This will be done easily from configuration in ISU.

Set Visibility of Fields through Configuration

From the initial screen of CAWM double click on Field Grouping Activity (or T-Code CACH) under Customizing tab.

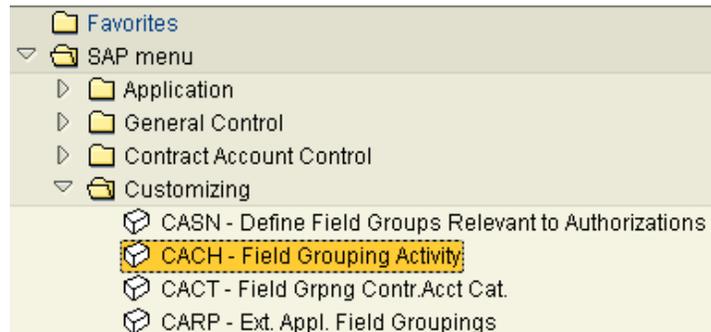


Figure 10: Select Activity of contract account screen

Now you can see the following screen. Here you can select nature/visibility of fields per activity.



Figure 11: Select Activity for configuring Field Group

Select activity from the above screen and click on 'Field Grouping' button. Now the following screen will be displayed.

Change View "Field Grouping Activity": Overview

Change

Fld groups						
Field grp	Description	Hide	Req.entry	Opt. entry	Display	Not spec.
211	Currency	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
212	Payment term	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
213	Account class	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
215	Account determination chara...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
216	Application form	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
217	Language key	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
221	Add. dunning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
222	Shipping control for alternate...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
223	Shipping control for alternate...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
224	Business area	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
225	Shipping control for busines...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
226	Move-in/out dunning proced...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
230	Technical regional structure ...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
231	Business regional structure ...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
233	BB request for cash paymen...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
240	Indicator: billing procedure a...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
241	YAP participation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
242	Bill aggregator	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
3100	Adding custom fields to Gen...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
3200	Preferred payment date	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
3400	Adding custom fields to Gen...	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
3500	Disconnection Due Date	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Figure 12: Configure visibility of Field Group

From the above screen you can set visibility of the fields as per your requirement. If you observe in the above screen, field group 3100 is a custom field group which we have added earlier. Remember that once you set the visibility of the fields here, this will also have impact on Front office (CRM CIC0) as well if you are connected to ISU through RFC.

Set visibility of Fields through Coding

Now here we will try to make a standard field group and a custom fields group as display only (read only) through coding. I would choose Incoming payment method (field group value '0043'. As mentioned at the beginning of this document, you can see the field groups from transaction CAS2) of Payments/Taxes tab of CAA2 and custom field group 3200.

Create a new function module say Z_CA_FIELDS_DISP_ONLY. Define import, export parameters and write the code in this function module as specified below:

```
FUNCTION Z_CA_FIELDS_DISP_ONLY.
*"-----
*"Local interface:
*" IMPORTING
*"   REFERENCE(FLDGR) TYPE BU_FLDGR
*" EXPORTING
*"   VALUE(OUT_STATUS) TYPE BU_FLDSTAT
*"-----

  IF fldgr = '0043' or fldgr = '3200'.
    out_status = '*'.
  ENDIF.
ENDFUNCTION.
```

Define import and export parameters as specified above. What I am doing here is whenever SAP is dealing with field groups '0043' and '3200', I am setting the OUT_STATUS to '*' (display only).

'*' Display only

'-' Hide

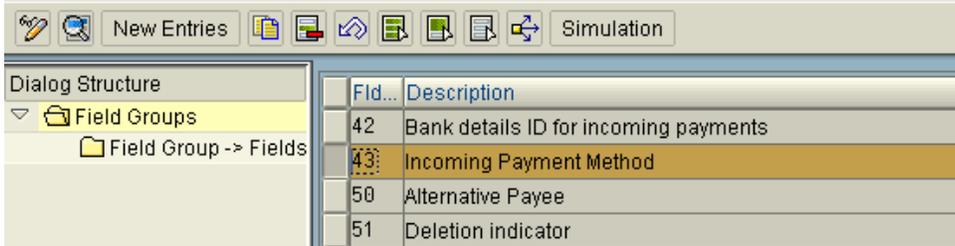
'+' Required entry (mandatory)

'.' Optional entry

Now attach function module Z_CA_FIELDS_DISP_ONLY to the field groups which you have defined in the code. Attach the function module as below

Go to transaction CAS2 or double click on 'Field Groups' option from the initial screen of CAWM. Now you can see the list of field groups as below

Change View "Field Groups": Overview



Fld...	Description
42	Bank details ID for incoming payments
43	Incoming Payment Method
50	Alternative Payee
51	Deletion indicator

Figure 13: Selecting Field Group

Double click on the field group number and attach the function module as specified in the screenshot below

Field Group 43

General Data

Description Incoming Payment Method

FM for fld grouping Z_CA_FIELDS_DISP_ONLY

Indiv. Required Field Check

Table control

Changes plannable

Field Grp for Search

Behavior During Customizing

Exclude Customizing

Exclude required entry

Exclude optional entry

Exclude display

Exclude hide

Figure 14: Attach function module to the required Field Group

Repeat the procedure for field group 3200 as well. After attaching this function module, if you go to CAA2 (contract account change) screen, you can see these fields are made read only.

General data Payments/Taxes Dunning/Correspondence Biller Direct

Payment Data (General)

Company Code Gp SWC6 Southern Water

Standard CoCode SWS SouthernWaterServicesLtd.

Payer

Paid By

Own Bank Dtls 01 Default SW Own Bank Details

Payment Ref.

Incoming Payments

Inc. Payt Method D Direct Debit Lock

Alternate Payer Fix

Bank Det. Inc. 101 jkg/GB/999999/99999999

Standing order

Pref. payment date 15

Annual DD payer Special Plan Indicator

Figure 15: Fields appearing in read only mode

Set Visibility of Standard Fields Based on User Role

This section will explain you how set visibility of standard fields based on User Role. This means you can set the visibility of specified standard fields so that these fields will appear in display mode to some users even in contract account change screen (CAA2) and appear in change mode to particular user groups.

Go to transaction CAWM and from the area menu specify the required standard fields in the below configuration path to set visibility relevant to authorization.

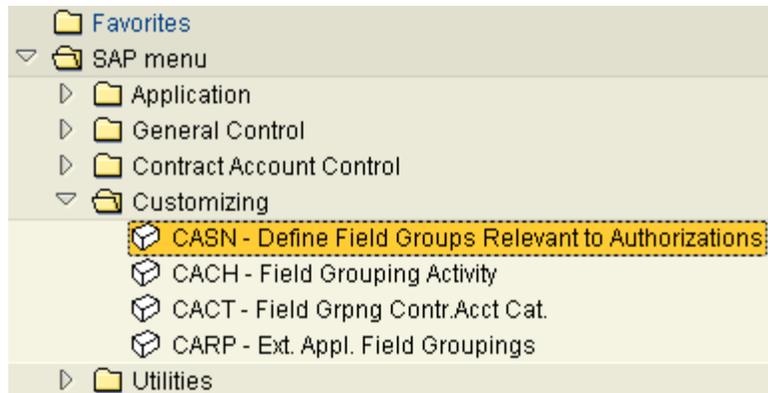


Figure 16: Path for configuring fields for Authorization

Now configure required fields in the next screen as below

New Entries: Overview of Added Entries

Fld gr	Description
43	Incoming Payment Method
3200	Preferred payment date

Figure 17: Configure fields for Authorization

Authorization object F_KKVK_FDG will be triggered at contract account level and authorization object B_BUPA_FDG will be triggered at business partner level.

Now follow the bulleted list below to set visibility of standard fields, for this you need BASIS people help. We do not need to worry about custom fields, we can simply add a bit of code in PBO to set the visibility of custom fields.

- Identify a role which is assigned to all users in the system; say we will call this role as Z_ROLE. Assign authorization object F_KKVK_FDG with ACTIVITY = '03' (display mode) to Z_ROLE.
- Create a new role say 'ZF:SPECIAL_USR' and assign authorization objects F_KKVK_FDG with ACTIVITY = '02' (change mode) to this role.
- Remove authorization objects F_KKVK_FDG with ACTIVITY = '02' (change mode) from all the other roles (existing).
- Assign role 'ZF:SPECIAL_USR' to the users who really want access to the configured fields.

After implementing the above approach you can see that, user who has role 'ZF:SPECIAL_USR' assigned to their user id can see the above configured fields in change mode in contract account change screen (CAA2 or CAA1).

Users who do not have role 'ZF:SPECIAL_USR' assigned to their user id will not be able to change the above configured fields even in contact account change (CAA2 or CAA1) screen and infact these fields will appear in display only mode to these users.

Additional Information

You can even perform all the above activities for Business partner screen fields as well. For this you have to use transaction BUPT and repeat the steps as specified in section 'Procedure for adding custom fields to Contract account screen' of this document.

Related Content

Please include at least three references to SDN documents or web pages.

<http://service.sap.com/utilities>

http://help.sap.com/saphelp_erp2005/helpdata/en/43/a08d4527074255e10000000a1553f7/frameset.htm

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