



## PFCG Roles and Authorization Concept

# SAP<sup>®</sup> CRM 7.0

### Target Audience

- System administrators
- Technology consultants

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Type Style	Description
<i>Example Text</i>	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options.  Cross-references to other documentation
<b>Example text</b>	Emphasized words or phrases in body text, graphic titles, and table titles
EXAMPLE TEXT	Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.
Example text	Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
<b>Example text</b>	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example text>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE TEXT	Keys on the keyboard, for example, F2 or ENTER.

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Icon	Meaning
	Caution
	Example
	Note
	Recommendation
	Syntax

Additional icons are used in SAP Library documentation to help you identify different types of information at a glance. For more information, see *Help on Help → General Information Classes and Information Classes for Business Information Warehouse* on the first page of any version of *SAP Library*.

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# 1 Introduction

In the CRM role concept there is a dependency between Business Roles and PFCG roles. The idea is, that each business role has a corresponding PFCG role containing only those authorization objects needed to fulfill the task being part of the Business Role.

The question now is how to determine the needed authorizations if you have enhanced a business role or created your own business role from scratch. Possible enhancements are new/enhanced UI components or changes in the navigation profile or in the business role.

This document first explains the authorization concept and then gives you detailed step by step descriptions how to create/update your PFCG role.



# 2 Architecture

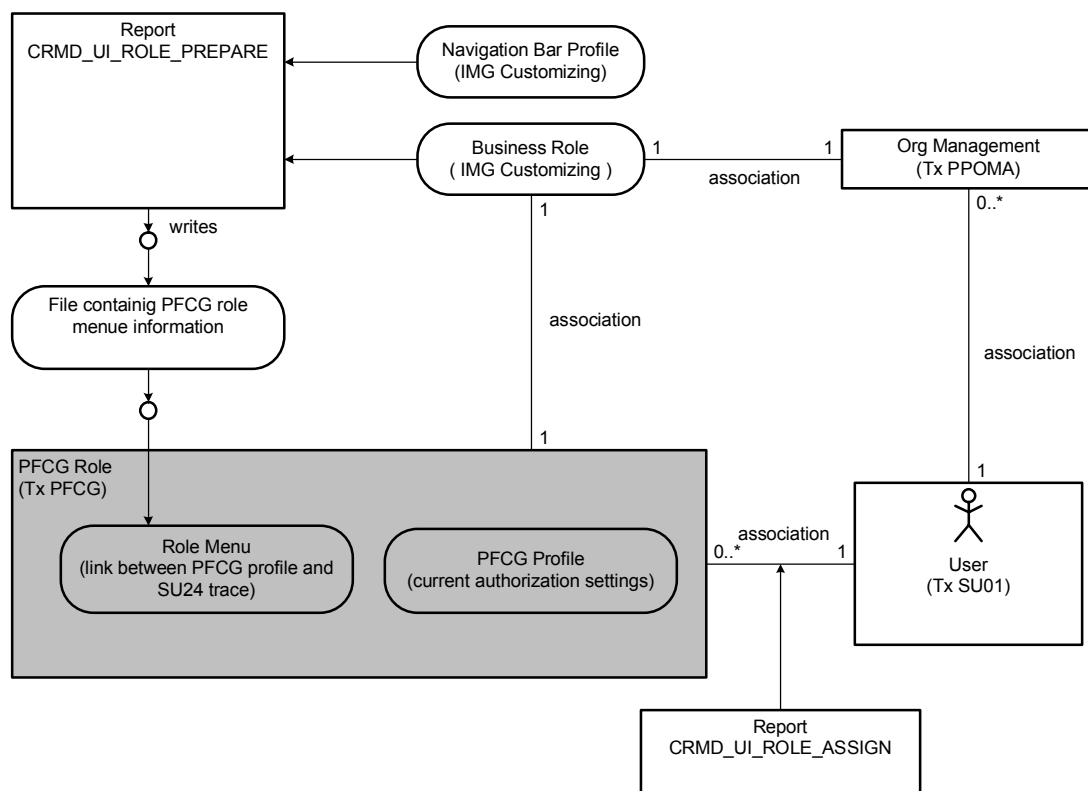
## Overview

This chapter introduces the parts involved in this process and shows their dependencies.


## Architecture

The graphic below shows and explains the following dependencies:

- Between the PFCG role menu and the business role
- Between the user and the PFCG role

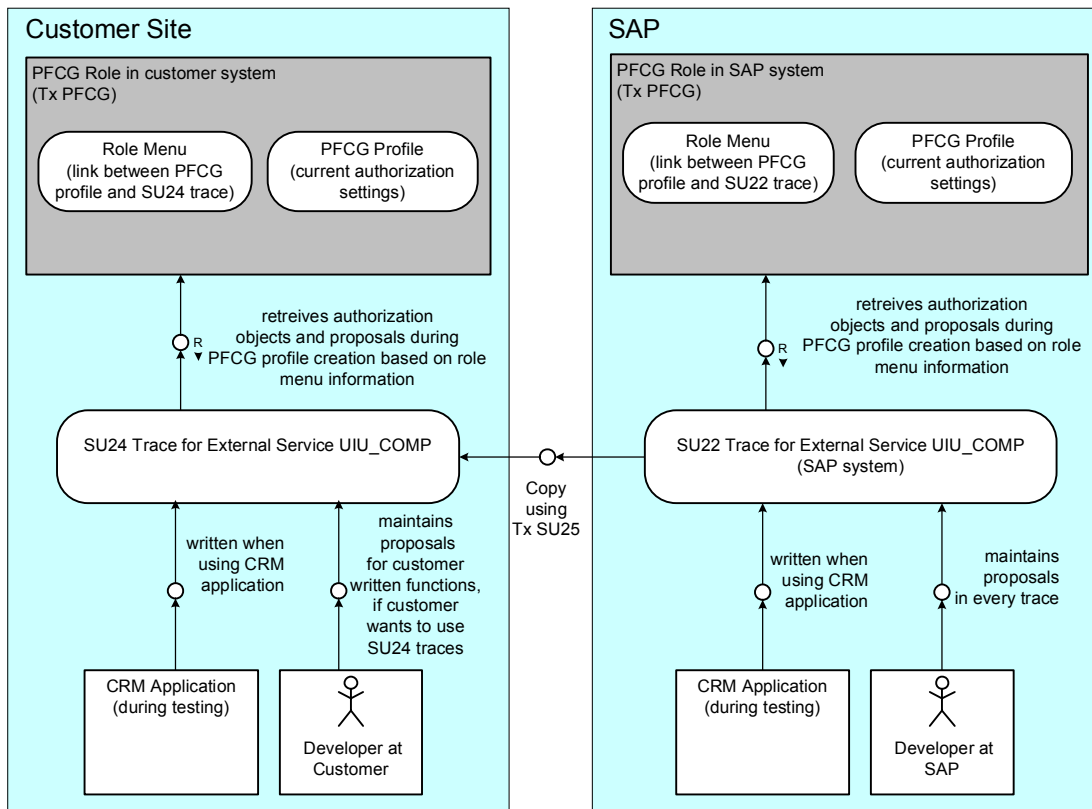


Component	Description
User	CRM uses the standard user maintenance (SU01). Authorizations are provided using PFCG profiles/roles assigned to the users.
Organizational Management	Users are (usually) indirectly assigned to business roles using the organizational management. If a position in

Component	Description
	<p>the organizational management is assigned to a business role using the info type <i>Business Role</i>, then in turn all users are assigned to this business role as well.</p> <p>For information about other ways to assign business roles, see Determination of Business Roles</p>
Navigation Bar Profile	Used to define work centers, logical links etc. Provides common settings used in business roles.
Business Role	Uses and adopts the navigation bar profile (e.g. work centers can be turned off) to the needs of the particular business functions. There is (usually) an assignment to one PFCG role.
Report CRMD_UI_ROLE_ASSIGN	Assigns PFCG roles to the user based on user assignments in the organizational management (positions in the organizational management in turn are assigned to business roles)
PFCG Role	<p>Contains tailored authorizations for the business role. The authorizations are retrieved from SU22/SU24 traces (at SAP/customer) based on the PFCG role menu.</p> <p> <b>Note</b></p> <p>Every user has to be assigned to the PFCG role SAP_CRM_UIU_FRAMEWORK—in addition to the business role specific PFCG role</p> <p>Usually there is a 1:1 relation between business roles and PFCG roles. There are cases where this is not suitable. It is then possible to assign the same PFCG role to several business roles in Customizing or even to omit the PFCG role.</p>
PFCG Role Menu	Is imported from a file created by report CRMD_UI_ROLE_PREPARE in the PFCG transaction. Each role menu entry is linked to a SU22/SU24 trace. The menu contains all traces and in turn all the authorizations needed to run a specific business role.
Report CRMD_UI_ROLE_PREPARE	Creates the role menu file based on the settings in Customizing. This information represents the link between the business role settings and the SU24 traces.

The next graphic shows and explains the following dependencies:

- Between the PFCG role and the SU22/24 traces
- Between the PFCG role and the CRM Web Client based application



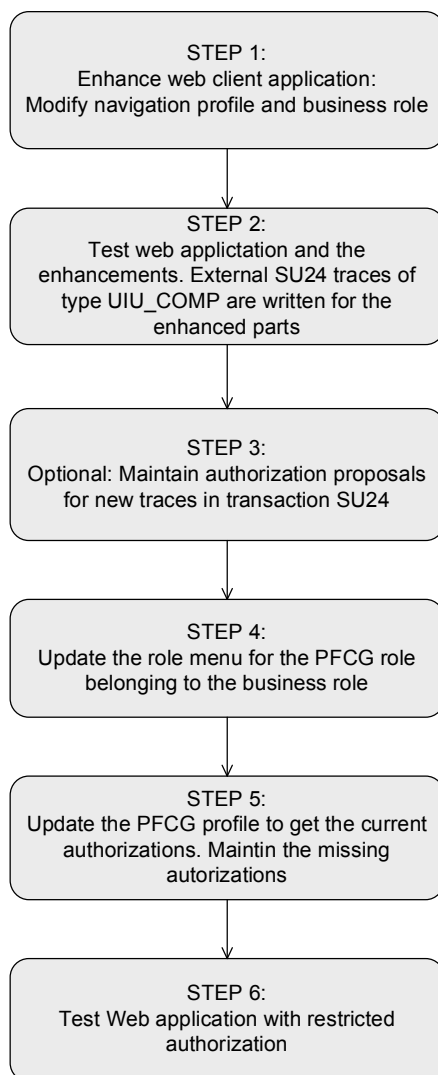
Component	Description
PFCG Profile	Contains authorization objects needed for a particular business role. The profile retrieves authorization objects from SU22/SU24 trace during profile creation. Only traces that are connected to the PFCG role via the role menu are read.
SU22 Trace	Authorization traces delivered by SAP. The CRM user interface uses the external trace type UIU_COMP.
SU24 Trace	Authorization traces maintained by the customer. These traces are copied from the SAP namespace (SU22) using transaction SU25.
CRM Application	Available UI functions are controlled in Customizing. Authorizations are controlled by PFCG roles.  SU22 (at SAP) and SU24 (at the customer) traces are written if they are turned on when the application performs an authorization check.  Turning trace on/off:  TA: RZ11 auth/authorization_trace = Y: active auth/authorization_trace = N: inactive  The more functions were executed in the application, the better is the coverage of the authorization check in the SU22/24 trace.

## Maintaining Authorizations

This chapter gives you some hints on how to update your PFCG profiles after changing navigation profile or business role settings.

Prerequisite for the steps described in this chapter is that you have already copied the SAP SU22 traces into your SU24 namespace using the transaction SU25. Please see *Define Authorization Role* in SPRO for further details on this topic. You should also have an own business role by copying an existing business role which you are adjusting/enhancing according to your business requirements.

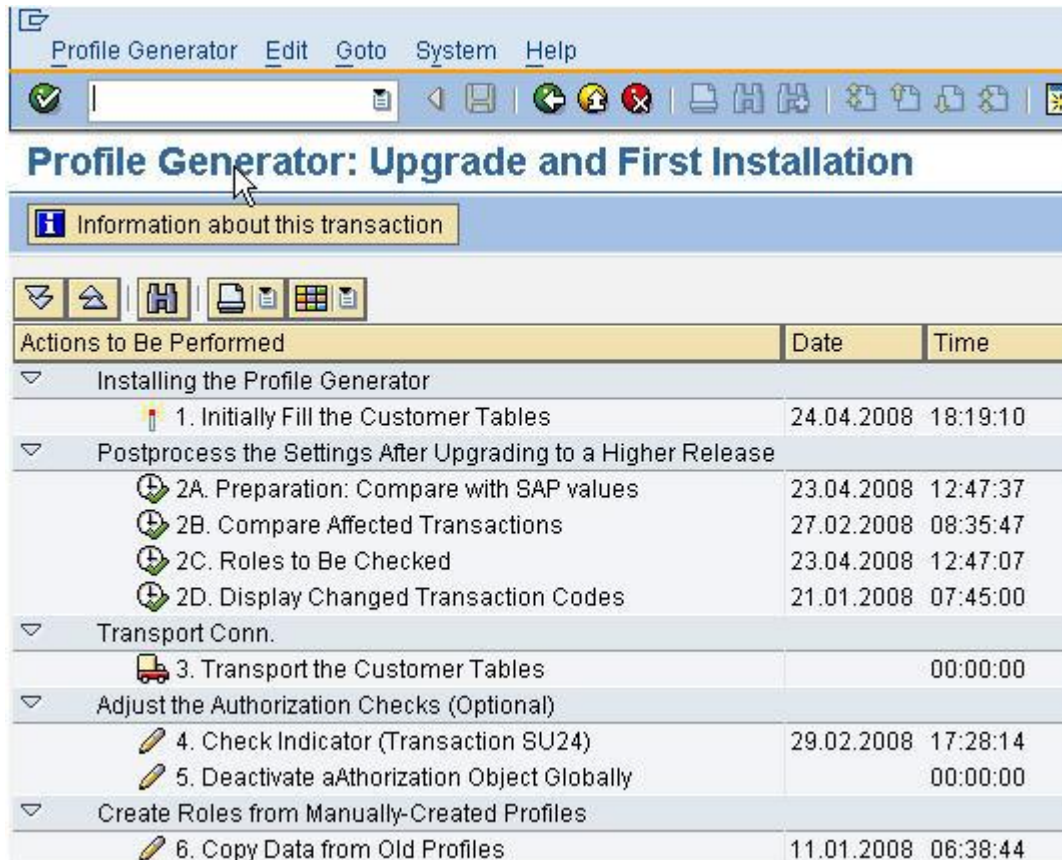
The following diagram depicts the main steps one usually performs to keep the business role and the corresponding PFCG role in sync.



## Prerequisites

You need authorization traces delivered by SAP before you can create PFCG profiles for a business role.

If not done yet, copy the SAP SU22 traces into your namespace. For that you have to use transaction SU25. See *Define Authorization Role* in SPRO for further details.



The screenshot shows the SAP Profile Generator window titled "Profile Generator: Upgrade and First Installation". It displays a list of actions to be performed, including installing the Profile Generator, postprocessing settings, transport connections, and creating roles from manually-created profiles. The table below summarizes the actions shown in the screenshot.

Actions to Be Performed	Date	Time
Installing the Profile Generator		
1. Initially Fill the Customer Tables	24.04.2008	18:19:10
Postprocess the Settings After Upgrading to a Higher Release		
2A. Preparation: Compare with SAP values	23.04.2008	12:47:37
2B. Compare Affected Transactions	27.02.2008	08:35:47
2C. Roles to Be Checked	23.04.2008	12:47:07
2D. Display Changed Transaction Codes	21.01.2008	07:45:00
Transport Conn.		
3. Transport the Customer Tables		00:00:00
Adjust the Authorization Checks (Optional)		
4. Check Indicator (Transaction SU24)	29.02.2008	17:28:14
5. Deactivate aAuthorization Object Globally		00:00:00
Create Roles from Manually-Created Profiles		
6. Copy Data from Old Profiles	11.01.2008	06:38:44

## Step1: Enhancing Web Client Application

This step involves the development of new UI components, enhancements of existing UI component, changes in the business role or navigation bar customizing. It is out of scope of this document to describe these activities in detail. This step is just mentioned since it may significantly influence the authorizations needed to run your application.

## Step2: Testing Web Application (Full Authorization)

Once you have finished developing your business role you have to test it. By testing it, you do not only validate functional correctness but also write SU24 authorization traces (if they are turned on). These traces will be used in STEP 5 where you are determining the authorization needed by your business role. It is therefore important in this step to test all processes which may execute additional authorization checks.

Before start testing, make sure that the SU24 trace is turned on:

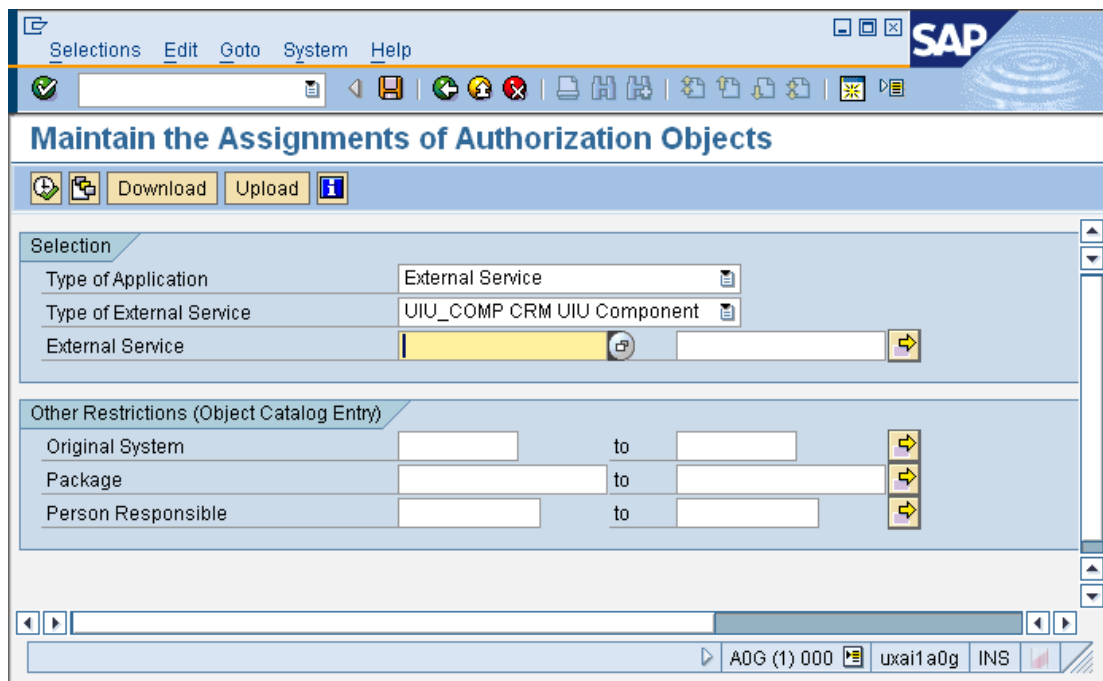
- Transaction: RZ11
  - `auth/authorization_trace = Y: active`
  - `auth/authorization_trace = N: inactive`

## Step 3: Maintaining Authorizations

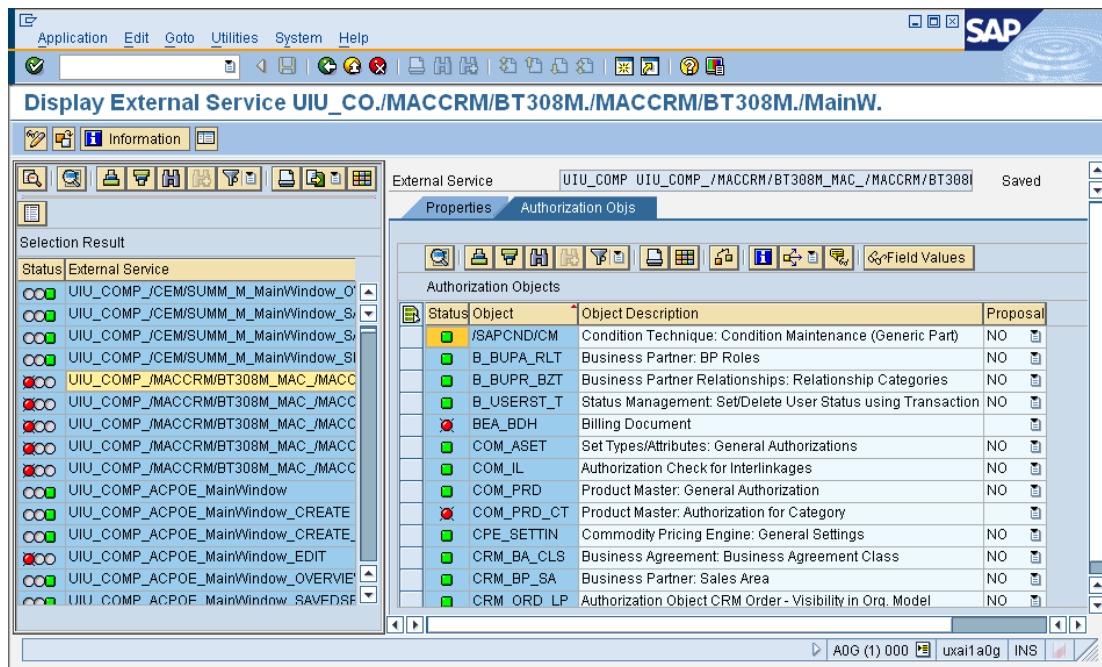
### Authorization Trace (SU24)

Maintaining authorization proposals in SU24 is the preferred approach if you are dealing with many business roles and therefore need to maintain your authorizations centrally. If you just have few business roles and prefer maintaining authorizations directly in the PFCG profile continue with chapter **Authorization Profile (PFCG)**.

- Check whether new SU24 traces have been written for your business role:
  - Execute transaction SU24 and select the UIU\_COMP as external service. You can find there all authorization checks performed when running the CRM Web Client.



- Incomplete or new traces are marked with a red status indicator



- Maintain authorization proposals for traces written by your modified UI component(s). You may also maintain proposals for traces delivered by SAP if the authorization proposals are not complete. Some proposals have intentionally have been left empty since they highly depend on your customizing settings and can therefore only be maintained on customer site.
- Set the check indicator to 'YS' for those authorization objects you are explicitly testing in your application.
- Set the check indicator to 'NO' for authorizations like S\_DEVELOP which are still checked but which should usually not get into a user's authorization profile by authorization proposals (unless you really know what you are doing). The fact that these authorizations are checked does not mean that they should be assigned to a business user under normal circumstances. The following table gives an overview on some of those authorization objects

Authorization Object	Description
S_BTCH_ADM	Background Processing: Background Administrator
S_CTS_ADMI	Administration Functions in Change and Transport System
S_CTS_SADM	System-Specific Administration (Transport)
S_DEVELOP	ABAP Workbench. In some scenarios (Interaction Center) this authorization with activity = 03 may be required.
S_ESH_ADM	Administration Enterprise Search Appliance
S_GUI	Authorization for GUI activities
S_LOG_COM	Authorization to Execute Logical Operating System Commands.
S_RFC	Authorization check for RFC access.
S_RZL_ADM	Control Station: System Administration

S_SYS_RWBO	System-Specific Authorization Object for WBO Proxy Functions
S_TABU_DIS	Table Maintenance (via standard tools such as SM30)
S_TCODE	Transaction Code Check at Transaction Start. The Business Partner component may need the following authorization assigned: TCT = /SAPAPO/LRP_ACCESS
S_USER_AGR	Authorizations: Role Check
S_USER_GRP	User Master Maintenance: User Groups
S_USER_PRO	User Master Maintenance: Authorization Profile

 Hint:

- You can get online documentation on an authorization object by clicking on the 'i' button.
- SU24 traces are maintained in the development client.

## Authorization Profile (PFCG)

Instead of using SU24 you can also maintain your authorization settings directly in the PFCG profile. This is useful if you are just dealing with few Business/PFCG and there is no need to re-use authorization settings.

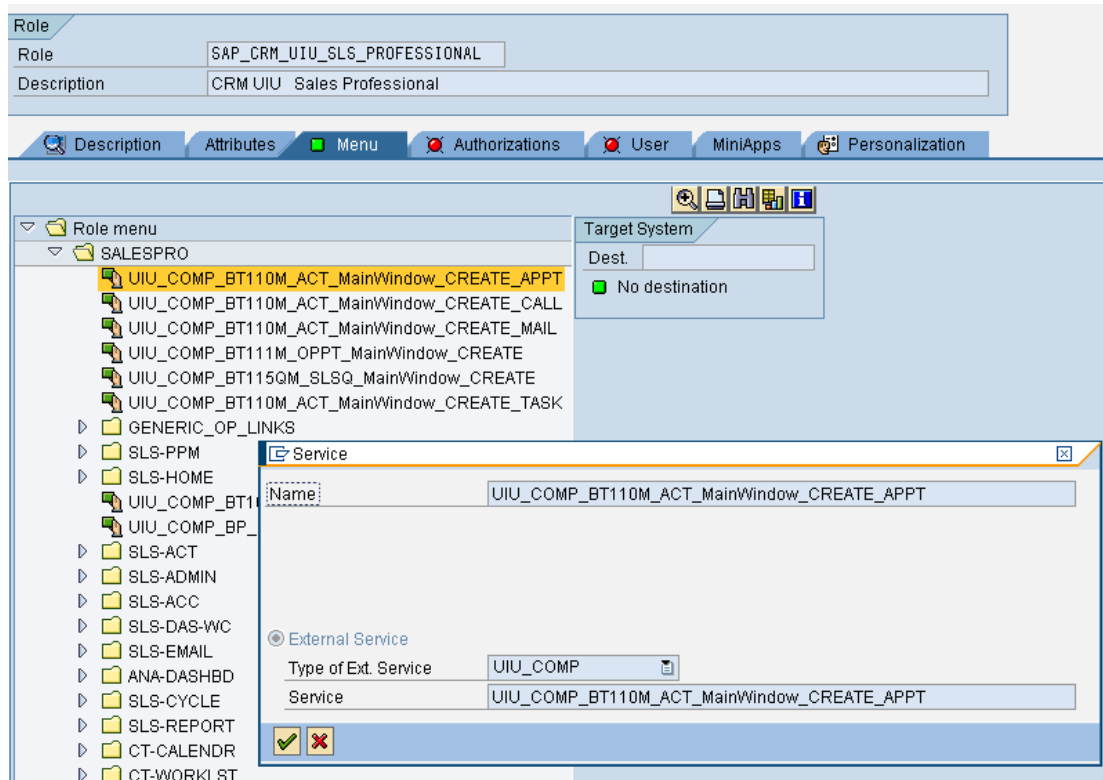
### Step 4: Updating the Role Menu

All activities described in this step are performed in transaction PFCG.

The PFCG role menu is needed to link the PFCG authorization role with the SU24 authorization traces. The authorization profile generator uses this information to collect all need authorization objects.

You can display the SU24 trace linked to a role menu entry by selecting 'Display Details' from the context menu of a particular menu entry.





The entries in the role menu must match to the UI components which are part of the business role in order to get best possible coverage of the authorizations. In fact, there is not only one entry per UI component but one entry for each combination of UI component/window/inbound plug used in the business role. This leads to a large number of entries in the role menu tree.

It is recommended to update the role menu tree after you have made changes in the business role customizing. A correct role menu is the prerequisite for the profile generator to get those authorizations needed by your business role. Since it would be very cumbersome to create the role menu manually there is the report `CRMD_UI_ROLE_PREPARE`. The next paragraph describes how to use it.

## Execute the Report `CRMD_UI_ROLE_PREPARE`

This report determines the SU24 traces relevant for a business role by analyzing the business role's logical links. Since the report cannot directly write the role menu into the PFCG role it creates a text file containing the menu information. This file will be imported in PFCG in the next step.

- SE38: Execute Report `CRMD_UI_ROLE_PREPARE`
- Select your business role (for scenarios that don't assign users in the organizational model—like Channel Management—select a PFCG role) and language EN.
- A file is created and saved locally (e.g. on Windows: C:\Documents and Settings\\SapWorkDir)

## Assign Business Role Data to the PFCG Role

In this step you assign the role menu data created in the previous step to the PFCG role. Perform this step in the same system/client as the `CRMD_UI_ROLE_PREPARE` report.

- Go to transaction PFCG.

- Select your PFCG role (e.g. SAP\_CRM\_UIU\_SRV\_PROFESSIONAL) and go to the change mode.
- Import the file to your PFCG Profile via Menu → Import from file.
- If you just want to update the role menu you have to delete the already existing role menu first. Select the menu (e.g. SALESPRO) and press the delete button.

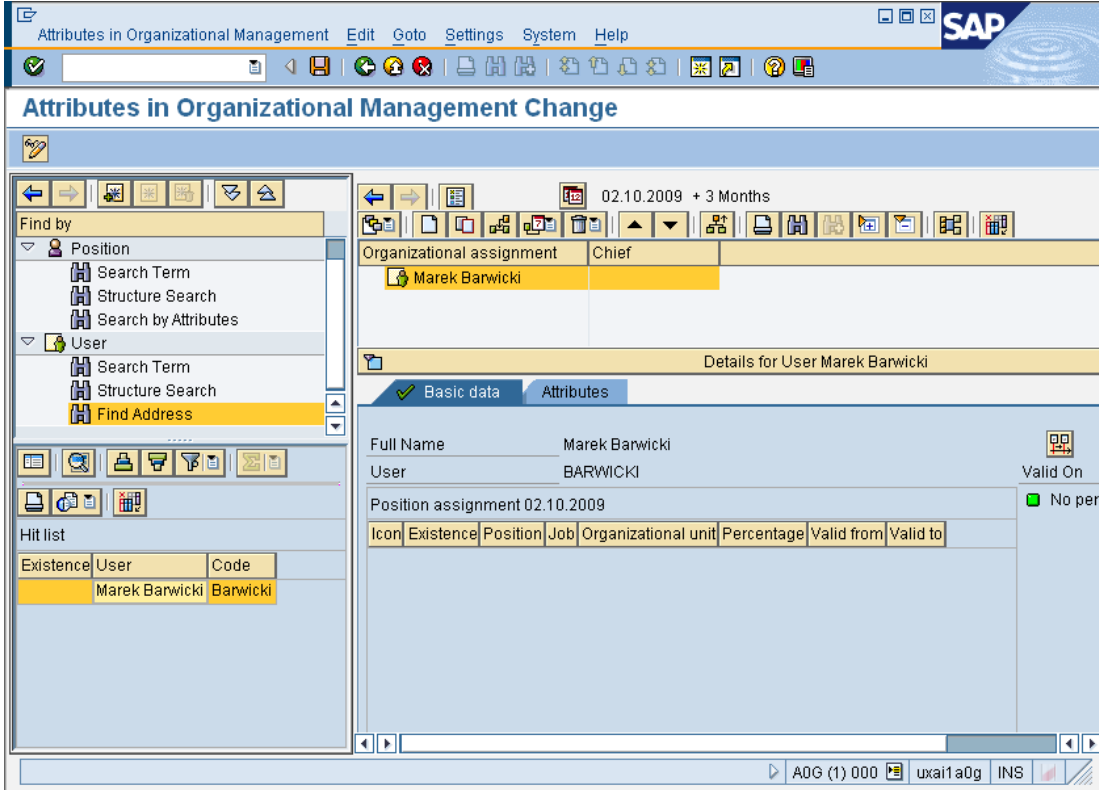
## Step 5: Setting up the PFCG Profile

In this final step, after creating the business role and their corresponding PFCG role, you will assign restricted authorization to the user and check whether he still can run the business role.

You have to perform the following steps:

### Assign User to Right Position in the Organization

- Call the transaction PPOMA\_CRM.
- Search for your user and click on it.



The screenshot shows the SAP PPOMA\_CRM transaction interface. The title bar reads "Attributes in Organizational Management Change". The main window is divided into several sections:

- Left Panel:** A search tree with "Find by" options for Position and User. Under "User", "Find Address" is selected. Below this is a "Hit list" table:

Existence	User	Code
	Marek Barwicki	Barwicki

- Top Right:** A table for "Organizational assignment" showing a user icon and the name "Marek Barwicki" assigned to the position "Chief".
- Bottom Right:** "Details for User Marek Barwicki" with tabs for "Basic data" and "Attributes". The "Attributes" tab is active, showing:
  - Full Name: Marek Barwicki
  - User: BARWICKI
  - Position assignment 02.10.2009: No peri
- Bottom:** A status bar showing "A0G (1) 000" and "uxa11a0g INS".

- Search the position you want to assign the user to.
- You can assign the position to the user by dragging the icon of the position to the user name (right hand side).

This chapter assumes that you are testing existing Business Roles which are already assigned to the organizational position. If you have created a new business role you have to assign it to the position like this:

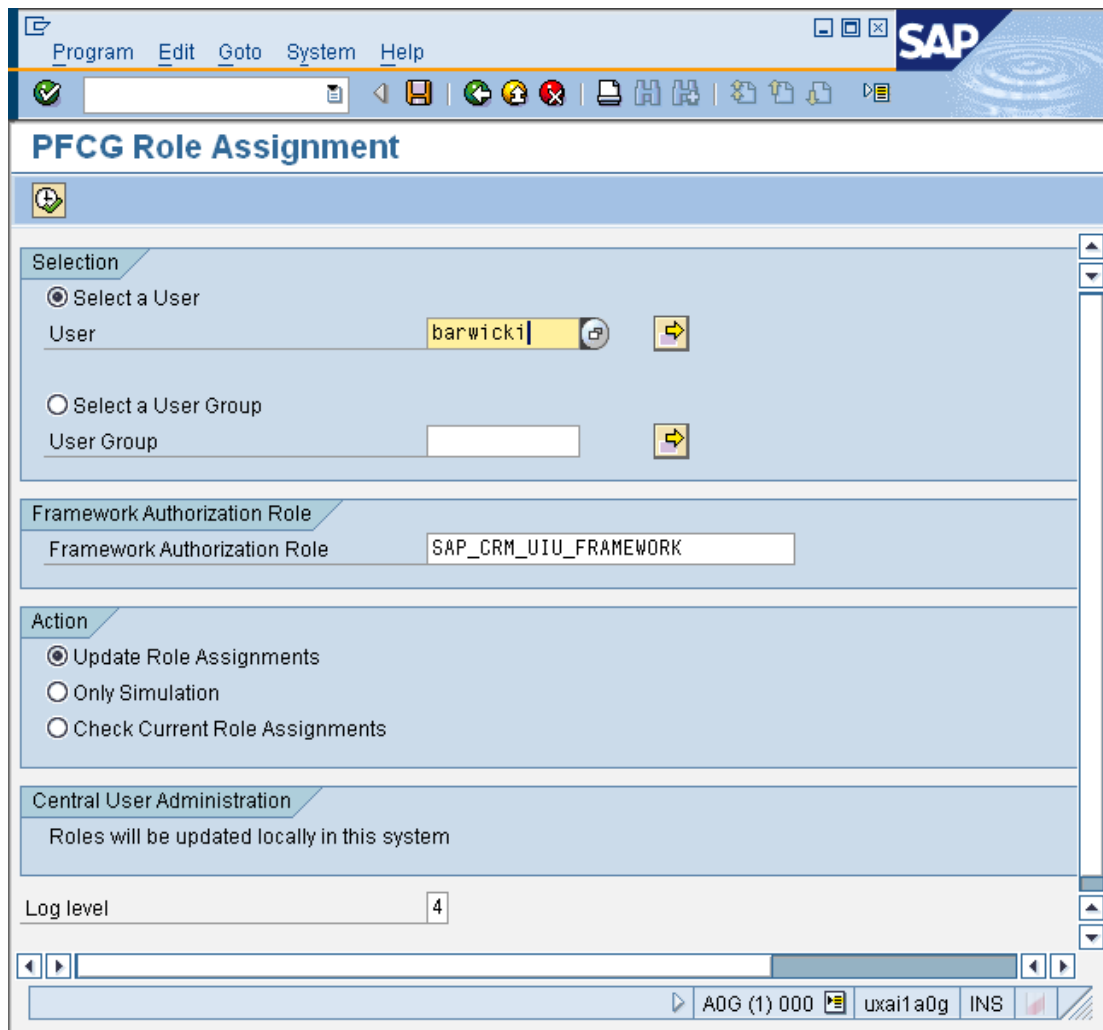
- Search for the Organizational Unit
  - Search for the organizational unit to which you want to assign the business role.
  - In the hit list on the left select the organizational unit.
  - Double-click the organizational unit or the position on the right.
- Assign Business Role to Organizational Unit or Position
  - Choose Goto → Detail object → Enhanced object description.
  - Select Business Role in the Active tab page.
  - Click Create infotype.
  - Enter the business role.

## Assign User to PFCG Role

The user will be assigned to the right PFCG according to his position in the organization.


This is done using the report CRMD\_UI\_ROLE\_ASSIGN. This report determines the business roles a user is assigned to. Based on the business role the PFCG profiles are determined and assigned.


- SE 38: CRMD\_UI\_ROLE\_ASSIGN
- Select a business role.



**PFCG Role Assignment**

**Selection**

Select a User  
User  

Select a User Group  
User Group  

**Framework Authorization Role**

Framework Authorization Role

**Action**

Update Role Assignments  
 Only Simulation  
 Check Current Role Assignments

**Central User Administration**

Roles will be updated locally in this system

Log level

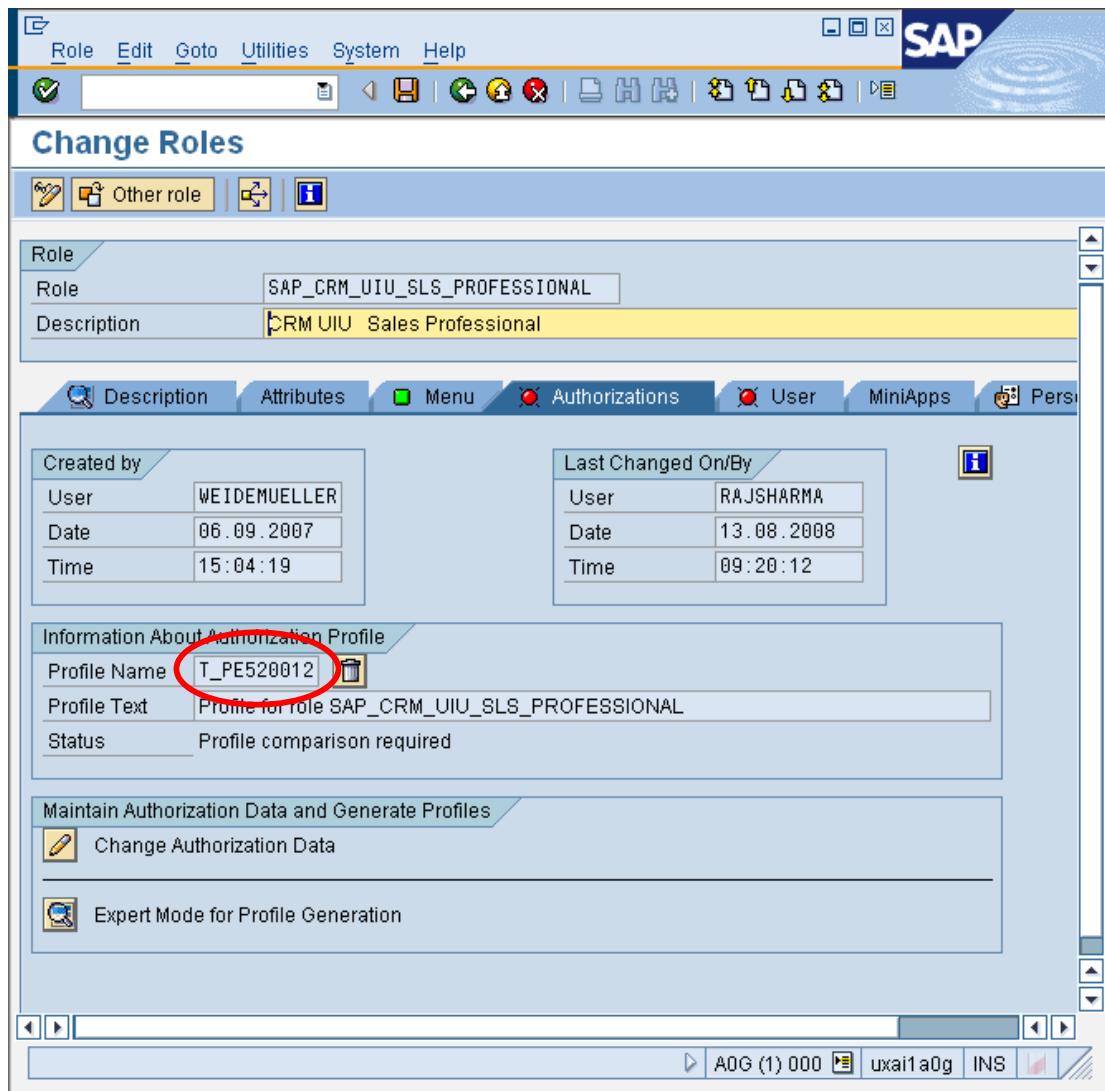
A0G (1) 000 uxai1a0g INS

- Start first in simulation mode. After checking start the update of assignments.

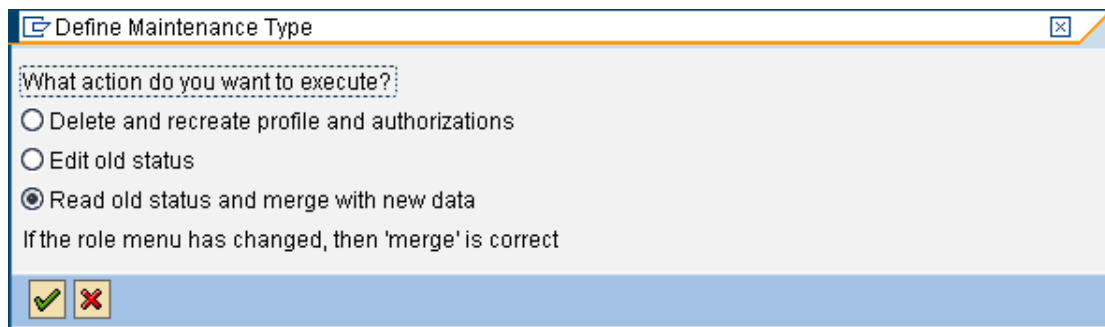
## Setup the PFCG Authorization Profile

The user has been assigned to the PFCG role in the previous step. You have to update the PFCG authorization profile before start testing.

- If you have already maintained some authorization setting you should merge new authorizations (coming from SU24) with the existing ones.

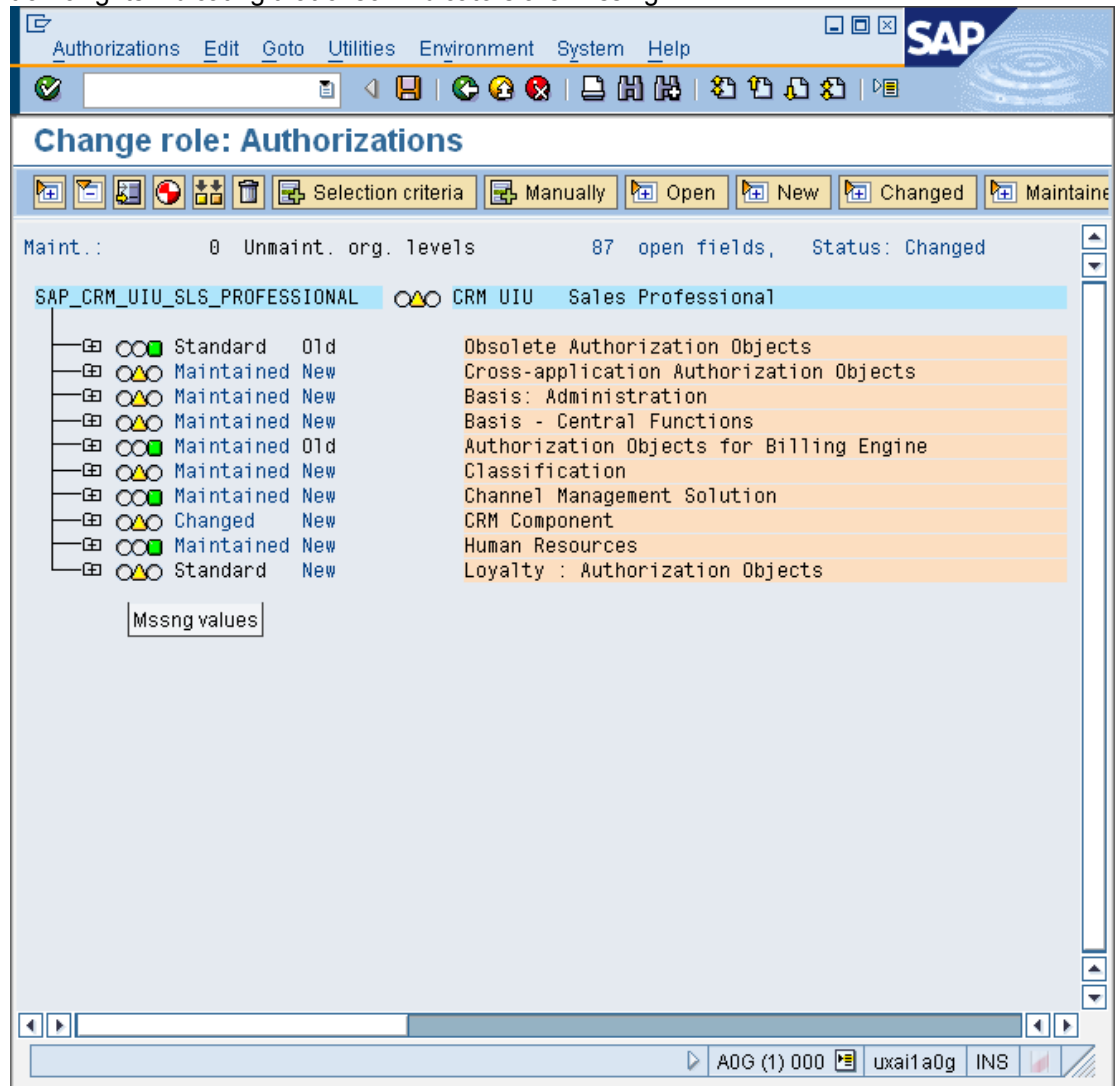


- Click 'Expert Mode for Profile Generation' and merge existing setting with the new one.



- The PFCG profile has now already been created out of the PFCG role menu and the SU24 entries. As you can see, it's not yet completely maintained—there are yellow

traffic lights indicating that check indicators are missing:



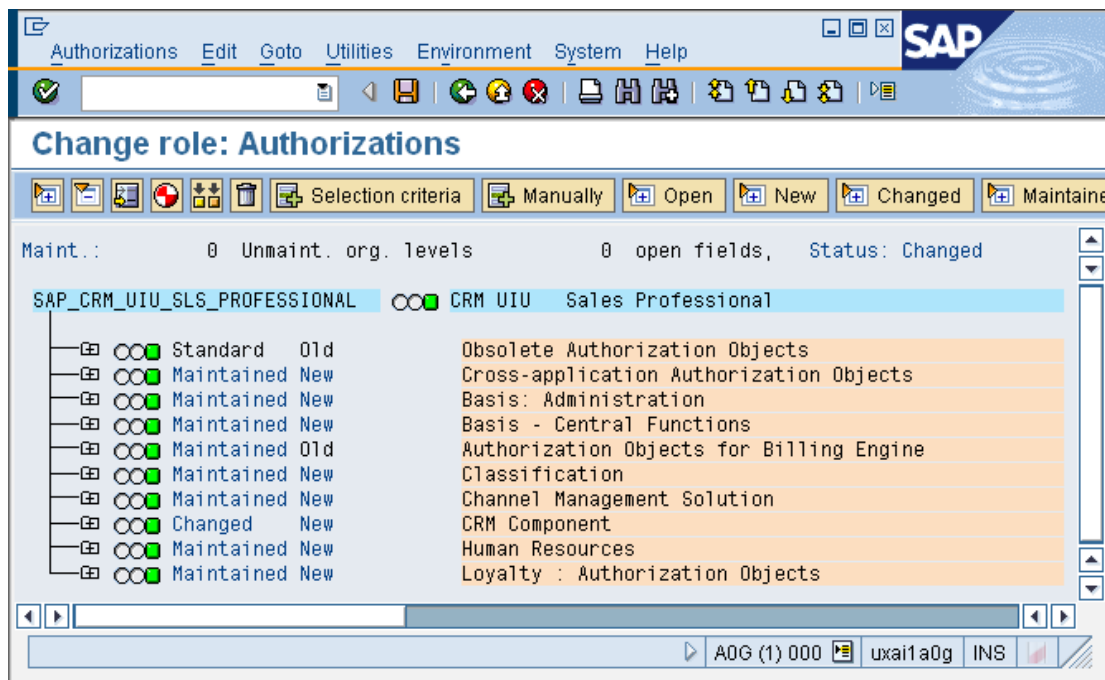
What is the meaning of the yellow traffic lights?

As described above, the PFCG profile is generated by "multiplying" the PFCG role menu entries with the SU24 authorization suggestion values to the the PFCG authorization profile. So only authorization objects which are directly needed for the business role are generated into the PFCG profile.

In the SU24 (or SU22 at SAP) the developers made suggestions for authorization object entries where possible—but not for all authorization object attributes for all authorization object suggestions can be made. E.g., there are authorization checks against customizing entries—as the developer does not know how the customizing of the customer will look like, nothing can be entered in the authorization object attribute value as suggestion.

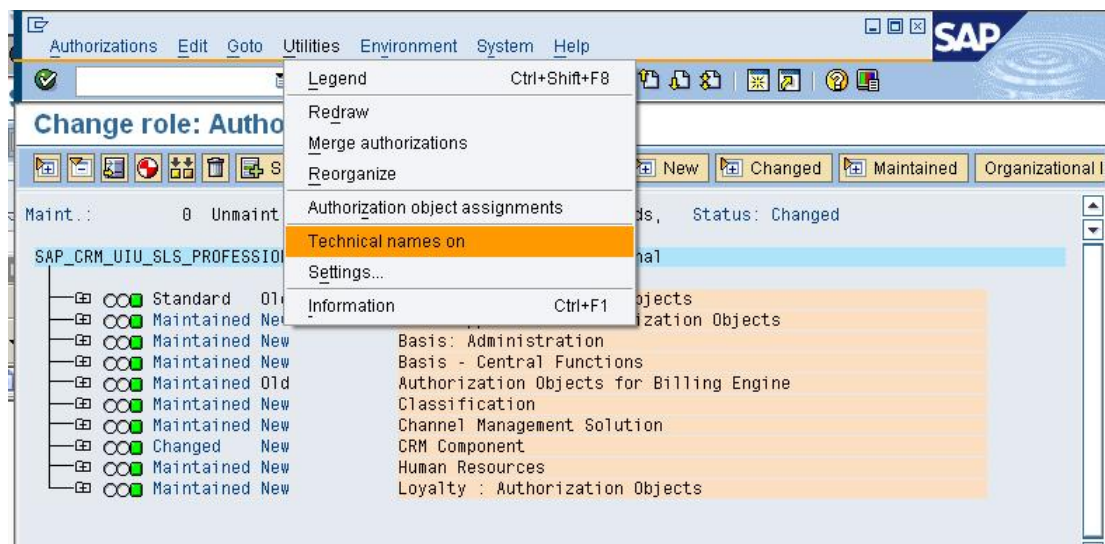
Such non-maintained authorization attributes in SU24 will now result in unmaintained fields in the PFCG profile—which is visualized via the yellow traffic lights.

- You have now to maintain all yellow entries until as the overall status is green.



- Now you need to deactivate the authorization object S\_SERVICE in the "Cross Application Authorization Objects".

Hint: You can turn on the technical authorization names via Utilities → Technical names on:



- Search for the S\_SERVICE object.


Find Authorization Objects / Fields

Enter field or object name or text (\*,+ allowed)

**Find Object**

Authorization object


or object text


 Find Object

**Find Field**

Field name

or field text

 Find Field



- Deactivate it.

Authorizations Edit Goto Utilities Environment System Help

Change role: Authorizations

Selection criteria Manually Open New Changed Maintained Organizational levels... Information

0 Unmaint. org. levels

0 open fields, Status: Changed

Case Management: Case	S_SCM6_CAS
Case Management: Authorization by Field	S_SCM6_FLN
Case Management: Status	S_SCM6_STA
Case Management: Text Notes	S_SCM6_TXT
Check at Start of External Services	S_SERVICE
Check at Start of External Services	T_PES2001200

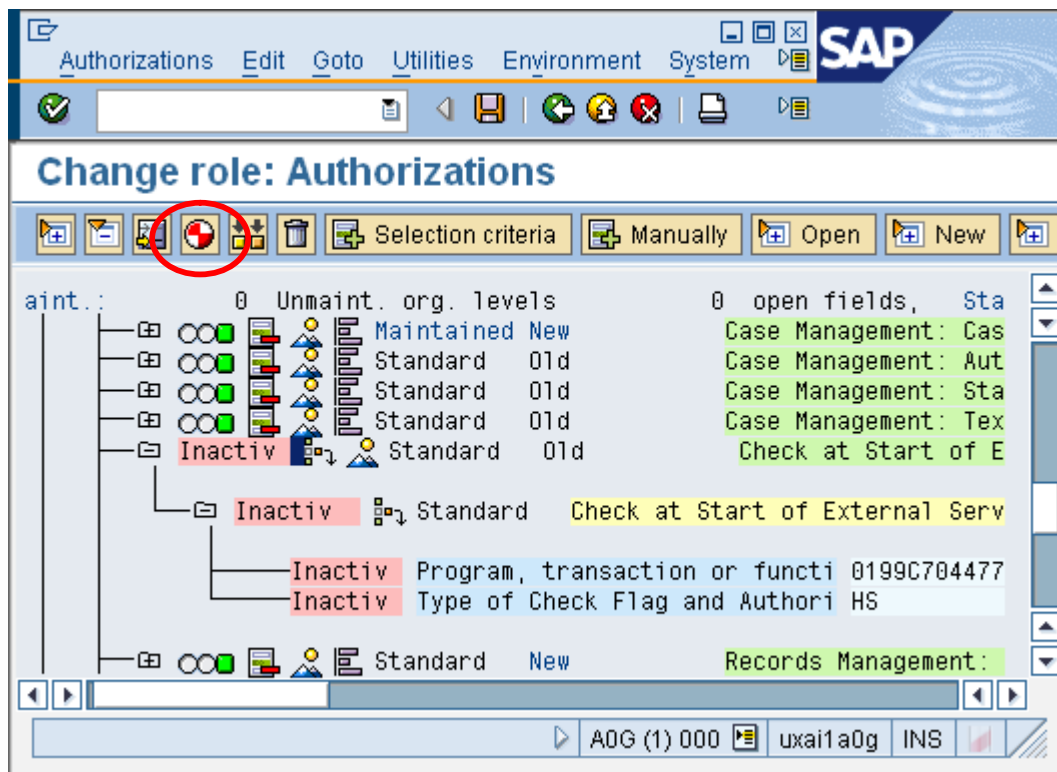
Program, transaction or functi 0199C704477C07917E1C0146B995E2, 022670B33B5B820002DC2F1BAE11A4 <...> SRV\_NAME  
Type of Check Flag and Authori HS SRV\_TYPE

Standard New Records Management: Authorizations for Document Content S\_SRM6S\_CT  
Standard New Records Management: Authorization for Documents S\_SRM6S\_DC  
Standard New Records Management: Authorizations for Attributes S\_SRM6S\_PR  
Standard New Records Management: Authorizations for Versions and Variants S\_SRM6S\_VV  
Standard New Records Management: Record: Authorizations for Record Strctr S\_SRM6S\_RECST  
Maintained New SAP Records Management : General Authorization Object S\_SRM6S\_CL

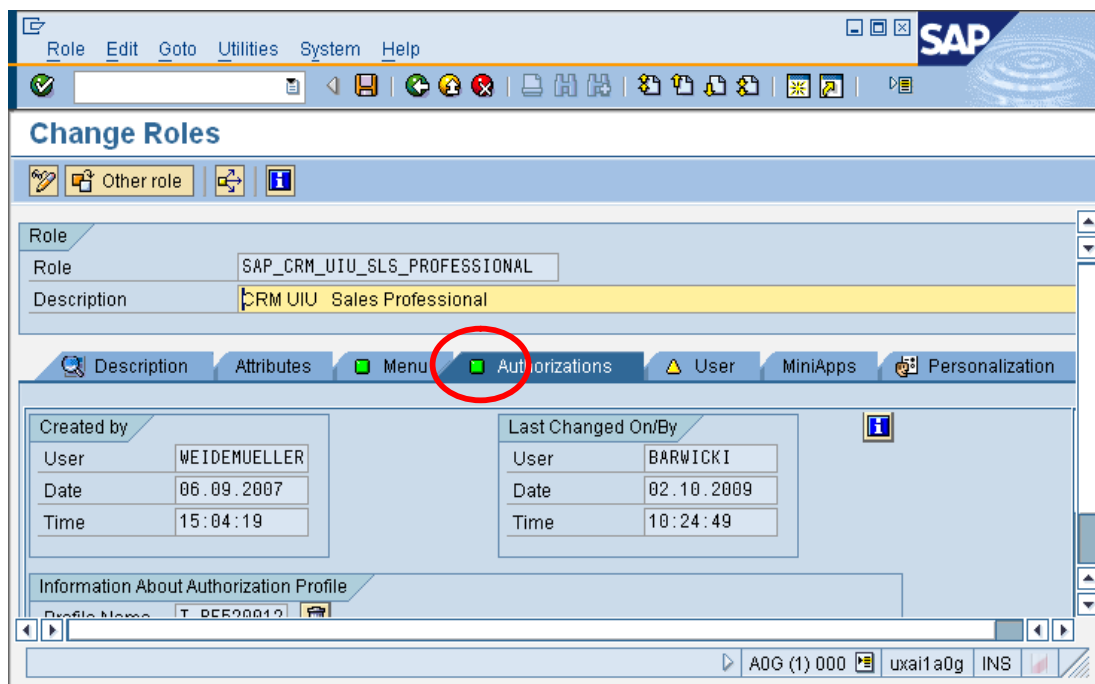
A0G (1) 000 uxai1a0g INS

- Now save (and confirm the suggested PFCG profile name if asked).
- Generate the profile.





- Now the Authorizations tab has a green traffic light:



- Finally a user comparison has to be performed. Press the button "User Comparison" on the "User" tab and select "Complete Comparison":

The screenshot shows the SAP 'Change Roles' dialog box with the 'User' tab selected. The role is 'SAP\_CRM\_UIU\_SLS\_PROFESSIONAL' with the description 'CRM UIU Sales Professional'. The 'User comparison' button is circled in red. Below the button is a table of user assignments.

User ID	User name	From	to	
BARWICKI	Marek Barwicki	02.10.2009	31.12.9999	

- That's it! All traffic lights are green now:

This screenshot is identical to the previous one, but the 'User comparison' button is now green, indicating that the comparison process is complete. The table of user assignments remains the same.

User ID	User name	From	to	
BARWICKI	Marek Barwicki	02.10.2009	31.12.9999	

## Step 6: Testing with Restricted Authorizations

In this final step you have to run your application with restricted authorizations in order to find out whether the PFCG profile is set up correctly. This is the case if you do not encounter any errors due to missing authorization. Details on this topic are out of scope for this document but you can find details on how to analyze errors due missing authorization in the document 'CRM\_Web\_Client\_Auth\_Problems.pdf' attached to note 1244321.



## 3 Additional Useful Information

### Determination of Business Roles

To use the CRM application a user needs to be assigned to a business role. The determination of the business roles is performed in the following order:

1. Check if a single business role is assigned using the user parameter `CRM_UI_PROFILE`. This setting overrules any other role assignments.

The screenshot shows the SAP 'Maintain User Profile' dialog box. The 'Parameters' tab is active, displaying a table of user parameters. The table has three columns: 'Parameter ID', 'Parameter value', and 'Short Description'. One parameter is listed: 'CRM\_UI\_PROFILE' with a value of 'SALESPRO' and a description of 'CRM UI Profile'. The user name 'BARWICKI' is visible in the top left, and the status is 'Revised'.

Parameter ID	Parameter value	Short Description
CRM_UI_PROFILE	SALESPRO	CRM UI Profile

2. Check if there are business roles assigned via the organizational management.
3. If neither 1 nor 2 is the case, the system determines the PFCG roles assigned to the user and checks if they are linked to a business role. If this is the case, these business roles are used.

## Documentation

You find detailed step-by-step descriptions on setting up authorizations for business roles in:

- Customizing for *Customer Relationship Management* under *UI Framework* → *Business Roles* → *Overview* and *UI Framework* → *Business Roles* → *Define Authorization Role*.
- SAP Help Portal (SAP CRM 7.0): [Assigning Authorization Roles](#)
- For information about assigning authorization roles, see also [SAP Help Portal](#).
- SAP Note 1244321 provides information on how to analyze authorization issues. For more information, see SAP Note [1244321](#) - *Simplifying error analysis in CRM WebClient UI*.