

ABAP – HR: Standard Info Type Enhancement



Applies to:

This document applies to SAP ECC 6.0, SAP Netweaver 2004s. For more information, visit the [ABAP homepage](#).

Summary

This article contains the step by step procedure to guide you through the enhancement of a standard Info type in SAP ECC 6.0 version for SAP HCM module.

Here we have a requirement to add certain specific fields to the Info type 0023 (Other/Previous Employers).

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Created on: 9 September 2010

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Introduction

Info types are the source of information in HCM Module. Data is bundled into Info types. The standard Info types have a predefined structure. The Info types are maintained in the master table T777D.

The Info types will have a number range denoted by nnnn. They are grouped into various different number ranges, and are as shown below:

- 0000 to 9999 - HR Master Data
- 1000 to 1999 - Personnel Planning
- 2000 to 2999 - Time Management
- 4000 to 4999 - Applicant data
- 5000 to 5999 - E recruitment & E learning
- 9000 to 9999 - Customer defined

This tutorial deals with the scenario where additional specific data needs to be maintained in the Standard Info type 0023 (Other/Previous Employers), and also how to validate a created field.

The fields which need to be added are:

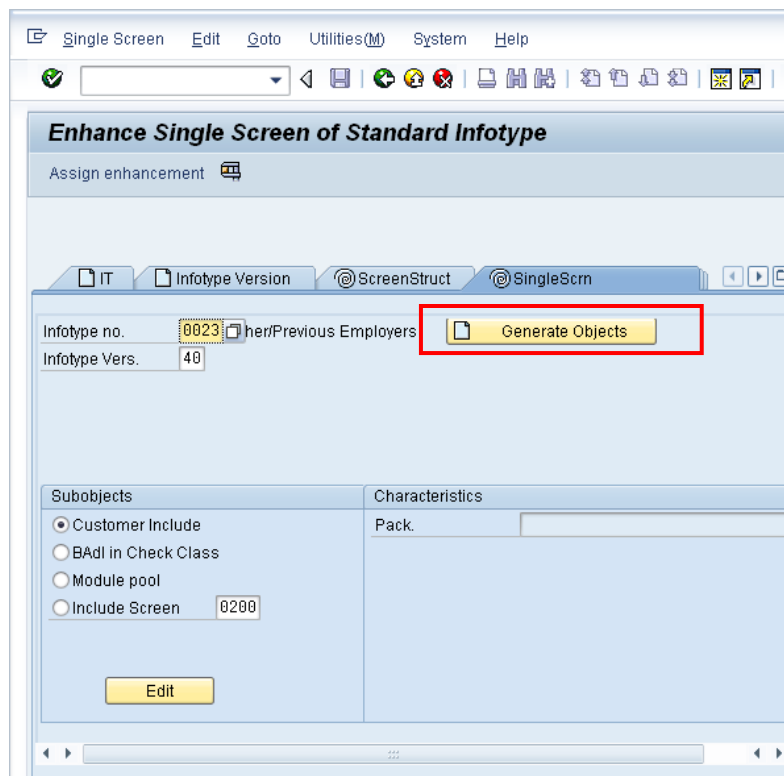
1. Relieving Letter / Certificate (as a Check Box)
2. Previous Income and Currency Unit
3. Previous Designation
4. Relieving Date
5. Reason for Leaving

Steps for Info type Enhancement

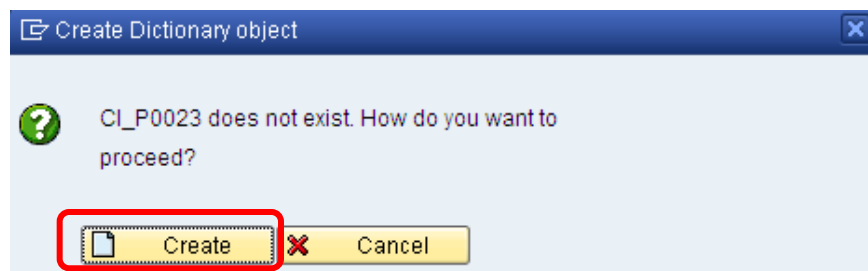
1. Create the Structure CI_0023 with the required data fields.
2. Generate the Screen Layout and realign the layout as per requirement
3. Assign Enhancement
4. Test the added fields in PA30 transaction.

Step by Step Process

1. Go to transaction PM01. Enter the Info type No (in this case 0023) and select the Single Screen tab (SingleScrn). Enter the Info type Version. Under Subobjects, choose Customer Include. The reasoning behind this is, in order to add any fields to the screen corresponding to Info type 0023, we have to add the necessary fields to the table PA0023. For this, a Customer Include (CI_P0023) is provided in the table PA0023. Click on **Generate Objects**.



If the Customer Include was not created earlier, a pop up appears: Click on CREATE.



2. The Screen for Structure CI_P0023 appears where we need to enter the fields which are to be added to the screen for maintaining Info type 0023. Here we will add the following fields as per the requirement :
 - a. Relieving Letter / Certificate (Check Box)
 - b. Previous Income and Currency Unit
 - c. Previous Designation
 - d. Relieving Date
 - e. Reason for Leaving

Structure: CI_P0023 New
Short Description: Prev Organisation related details

Attributes Components Entry help/check Currency/quantity fields

Predefined Type 1 / 6

Component	RTy...	Component type	Data Type	Length	Decim...	Short Description
ZZREL_CERT	<input type="checkbox"/>	ZZREL_CERT	CHAR	1	0	Relieving Letter / Certificate
ZZPREV_INCOME	<input type="checkbox"/>	ZZPREV_INCOME	CURR	15	2	Previous Income
ZZINCOME_UNIT	<input type="checkbox"/>	ZZINCOME_UNIT	CUKY	5	0	Income Unit (Currency Unit)
ZZPREV_DESIG	<input type="checkbox"/>	ZZPREV_DESIG	CHAR	25	0	Designation
ZZREL_DATE	<input type="checkbox"/>	ZZREL_DATE	DATS	8	0	Relieving Date
ZZREASON	<input type="checkbox"/>	ZZREASON	CHAR	50	0	Reason for Leaving

3. Since the field ZZINCOME_UNIT has domain as WAERS, we can give the check table as follows :

Component	RTy...	Component type	Data Type	Check table	Ref. field	Short Description
ZZPREV_INCOME	<input type="checkbox"/>	ZZPREV_INCOME	CURR			Previous Income
ZZINCOME_UNIT	<input type="checkbox"/>	ZZINCOME_UNIT	CUKY	<input checked="" type="checkbox"/> TCURC	Input help implemented with che	Income Unit (Currency Unit)
ZZPREV_DESIG	<input type="checkbox"/>	ZZPREV_DESIG	CHAR			Designation

4. Specify the Reference table for Currency :

Search Help 1 / 6

Component	Component Type	Data Ty...	Reference table	Ref. field	Short Description
ZZREL_CERT	ZZREL_CERT	CHAR			Relieving Letter / Certificate
ZZPREV_INCOME	ZZPREV_INCOME	CURR	CI_P0023	ZZINCOME_UNIT	Previous Income
ZZINCOME_UNIT	ZZINCOME_UNIT	CUKY			Income Unit (Currency Unit)
ZZPREV_DESIG	ZZPREV_DESIG	CHAR			Designation
ZZREL_DATE	ZZREL_DATE	DATS			Relieving Date
ZZREASON	ZZREASON	CHAR			Reason for Leaving

5. Select the Enhancement Category as follows :

Maintain Enhancement Category for CI_P0023

Enhancement Category for Structure

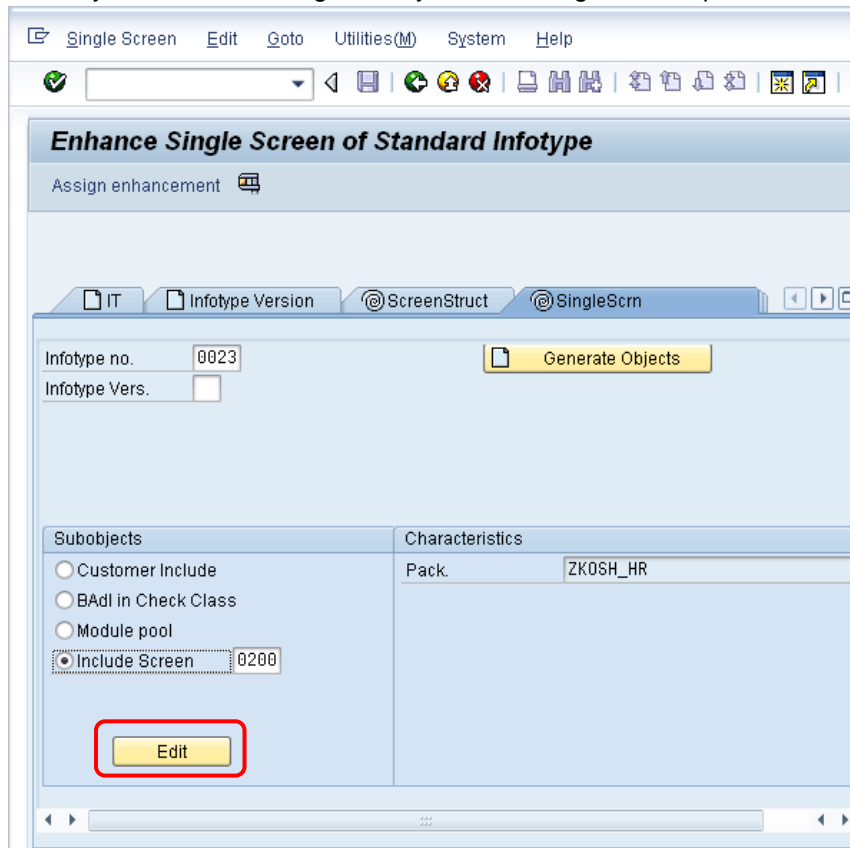
- Can Be Enhanced (Deep)
- Can be enhanced (character-type or numeric)
- Can be enhanced (character-type)
- Cannot Be Enhanced
- Not classified

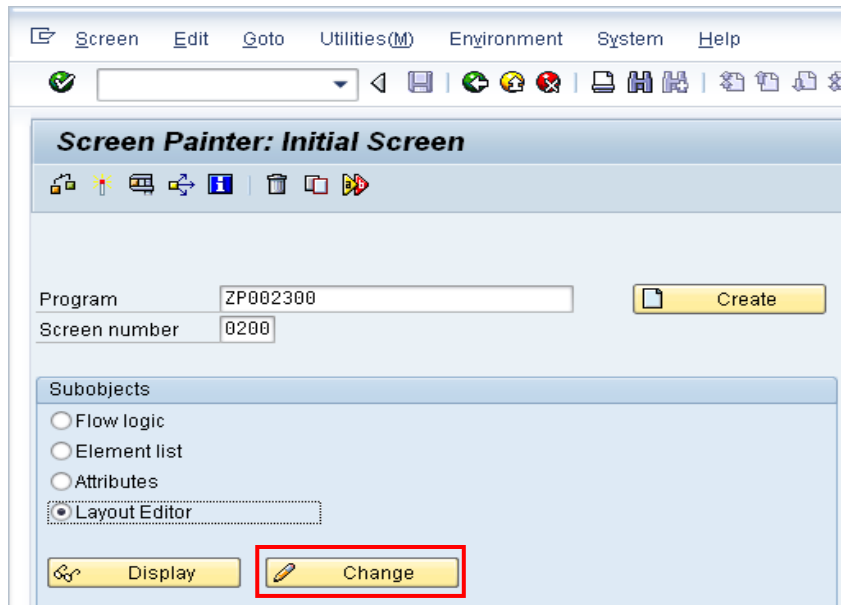
Copy

6. Activate the Structure. After activation the structure will be shown in the table PA0023 as shown below :

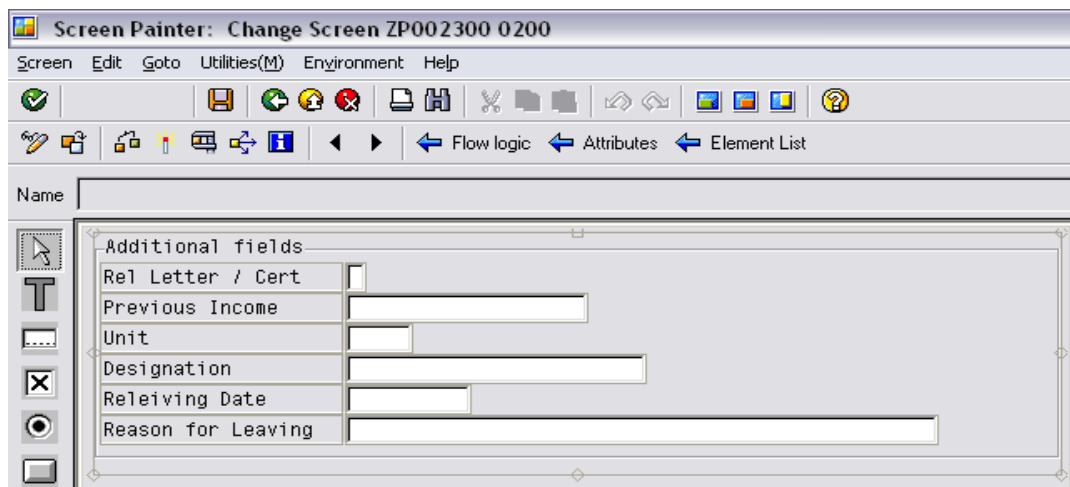
Field	Key	Init...	Data element	Data Ty...	Length	Decim...	Short Description	Group
FLAG4	<input type="checkbox"/>	<input type="checkbox"/>	NUSED	CHAR	1	0	Reserved Field/Unused Field	
RESE1	<input type="checkbox"/>	<input type="checkbox"/>	NUSED2	CHAR	2	0	Reserved Field/Unused Field of Length 2	
RESE2	<input type="checkbox"/>	<input type="checkbox"/>	NUSED2	CHAR	2	0	Reserved Field/Unused Field of Length 2	
GRPYL	<input type="checkbox"/>	<input type="checkbox"/>	PCCE_GPVAL	CHAR	4	0	Grouping Value for Personnel Assignments	
INCLUDE	<input type="checkbox"/>	<input type="checkbox"/>	PS0023	STRU	0	0	HR Master Record: Infotype 0023 (Other/Previous Employers)	
ARBGB	<input type="checkbox"/>	<input type="checkbox"/>	VORAG	CHAR	60	0	Name of employer	
ORT01	<input type="checkbox"/>	<input type="checkbox"/>	ORT01	CHAR	25	0	City	
LAND1	<input type="checkbox"/>	<input type="checkbox"/>	LAND1	CHAR	3	0	Country Key	
BRANC	<input type="checkbox"/>	<input type="checkbox"/>	BRSCH	CHAR	4	0	Industry key	
TAETE	<input type="checkbox"/>	<input type="checkbox"/>	TAETE	NUMC	8	0	Job at former employer(s)	
ANSVX	<input type="checkbox"/>	<input type="checkbox"/>	ANSVX	CHAR	2	0	Work Contract - Other Employers	
ORTJ1	<input type="checkbox"/>	<input type="checkbox"/>	P22J_ADDR1	CHAR	40	0	First address line (Kanji)	
ORTJ2	<input type="checkbox"/>	<input type="checkbox"/>	P22J_ADDR2	CHAR	40	0	Second address line (Kanji)	
ORTJ3	<input type="checkbox"/>	<input type="checkbox"/>	P22J_ADDR3	CHAR	40	0	Third address line (Kanji)	
INCLUDE	<input type="checkbox"/>	<input type="checkbox"/>	CI_P0023	STRU	0	0	Prev Organisation related details	
ZZREL_CERT	<input type="checkbox"/>	<input type="checkbox"/>	ZZREL_CERT	CHAR	1	0	Relieving Letter / Certificate	
ZZPREV_INCOME	<input type="checkbox"/>	<input type="checkbox"/>	ZZPREV_INCOME	CURR	15	2	Previous Income	
ZZINCOME_UNIT	<input type="checkbox"/>	<input type="checkbox"/>	ZZINCOME_UNIT	CUKY	5	0	Income Unit (Currency Unit)	
ZZPREV_DESIG	<input type="checkbox"/>	<input type="checkbox"/>	ZZPREV_DESIG	CHAR	25	0	Designation	
ZZREL_DATE	<input type="checkbox"/>	<input type="checkbox"/>	ZZREL_DATE	DATS	8	0	Relieving Date	
ZZREASON	<input type="checkbox"/>	<input type="checkbox"/>	ZZREASON	CHAR	50	0	Reason for Leaving	

7. Go Back to the PM01 transaction screen and select Include Screen under Subobjects and enter the screen number as 0200. Click on EDIT. It navigates to the Screen Painter (SE51) transaction. A program with name ZP002300 is generated. Select Layout Editor and click on CHANGE. The new fields appear in the layout. We can change the layout according to the requirement.

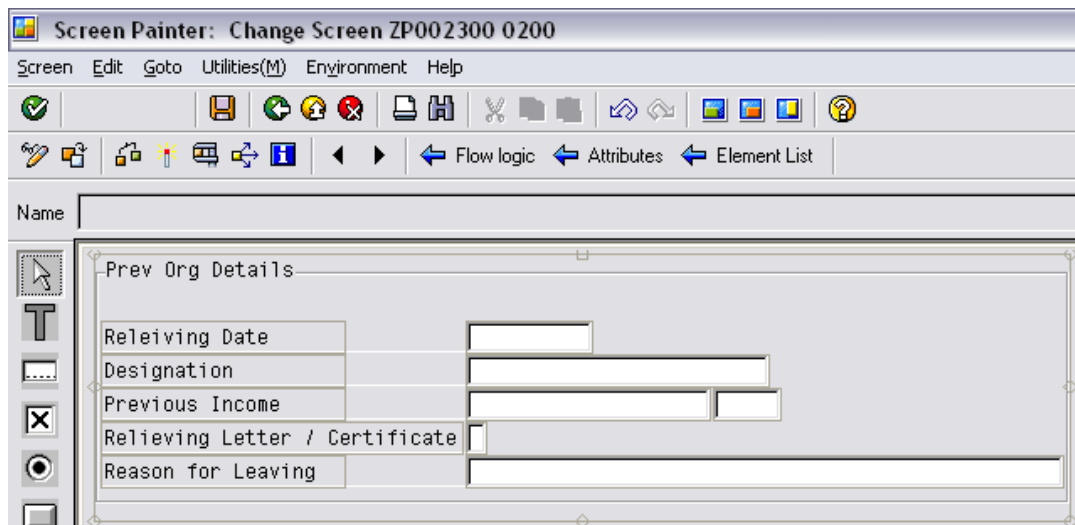




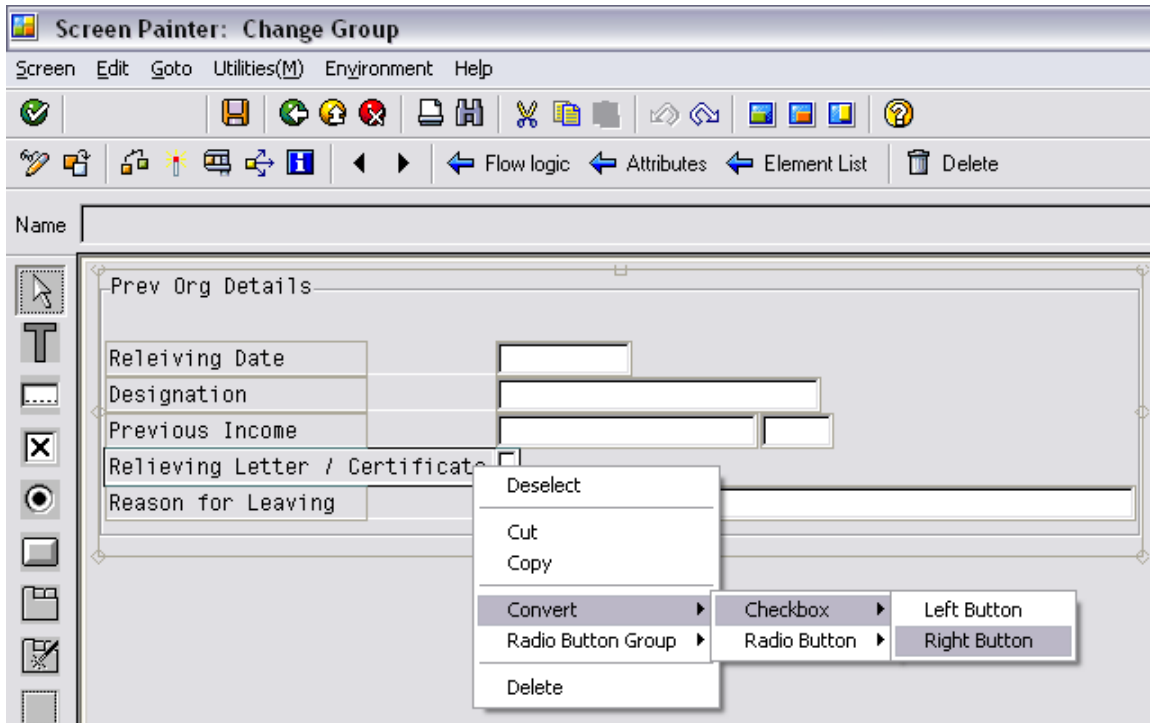
Initial Layout:



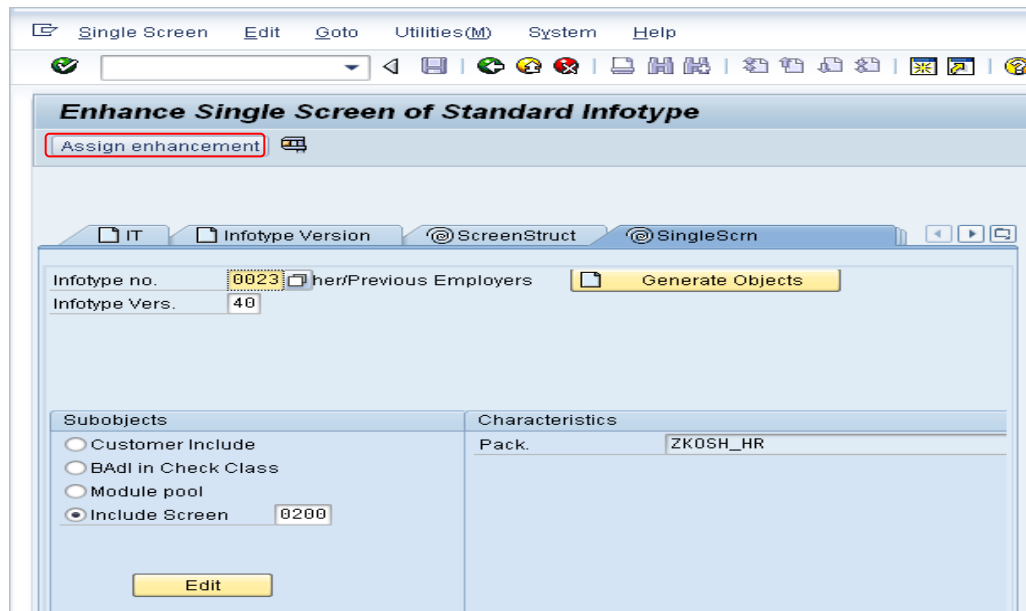
After Rearrangement:



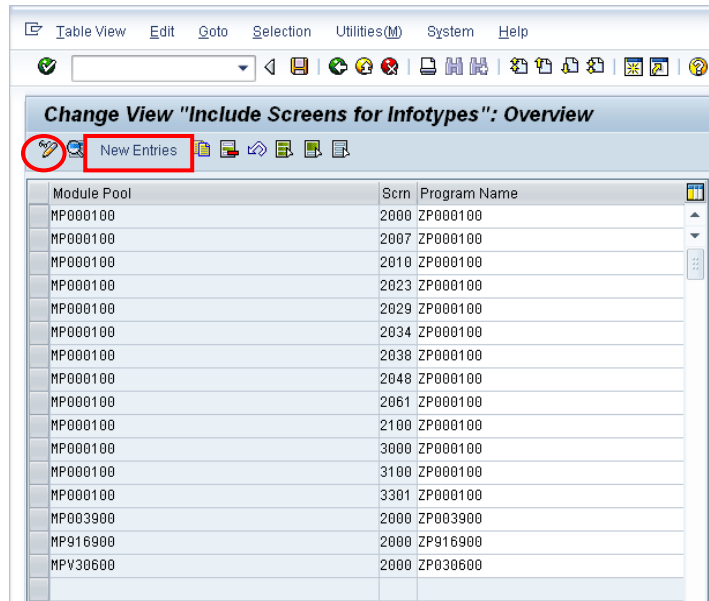
We need the Relieving Letter / Certificate field to be a check box. We select the field, right click and convert it to a check box with Right Button. (The label appears to the left and the check box appears to the right).



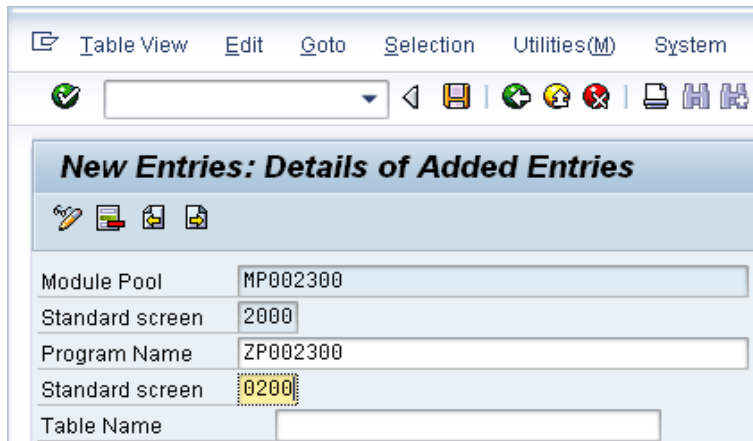
8. Save and activate the screen. After that go back to the PM01 transaction. Click on Assign Enhancement button.



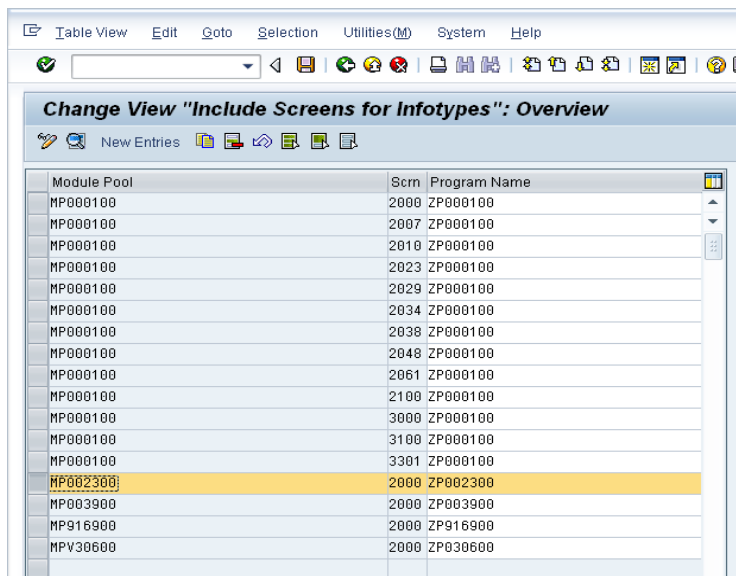
9. Click on **Edit** and then **New Entries**.



10. Enter the details as below (Program Name and standard screen number) and save it.



11. The Saved entries will reflect as below :



Program Edit Goto Settings System Help

Data Browser: Table PA0023: Selection Screen

Number of Entries

PERNR	1007	to		
SUBTY		to		
OBJPS		to		
SPRPS		to		
ENDDA		to		
BEGDA		to		
SEQNR		to		
AEDTM		to		
UNAME		to		
HISTO		to		
ITXEX		to		
REFEX		to		
ORDEX		to		
ITBLD		to		
PREAS		to		
FLAG1		to		
FLAG2		to		
FLAG3		to		
FLAG4		to		
RESE1		to		
RESE2		to		
GRPVL		to		
ARBGB		to		
ORT01		to		
LAND1		to		
BRANC		to		
TAETE		to		
ANSVX		to		
ORTJ1		to		
ORTJ2		to		

No table entries found for specified key

- Go to transaction PA30 and enter 0023 under Info type and click on display. If no entry exists, click on create. We get the following screen Enter the details and save.

Create Other/Previous Employers

Pers. No. 1007 Pers. Assgn 00001007 00001007 Credit Manage
 Pers.No. 1007 Name Hanna Ulrich
 EE group 1 Active Pers.area 1300 Frankfurt
 EE subgroup DT Non-PS staff Cost Center 2100 Finance & Admin.
 Start 07.09.2008 to 30.09.2012

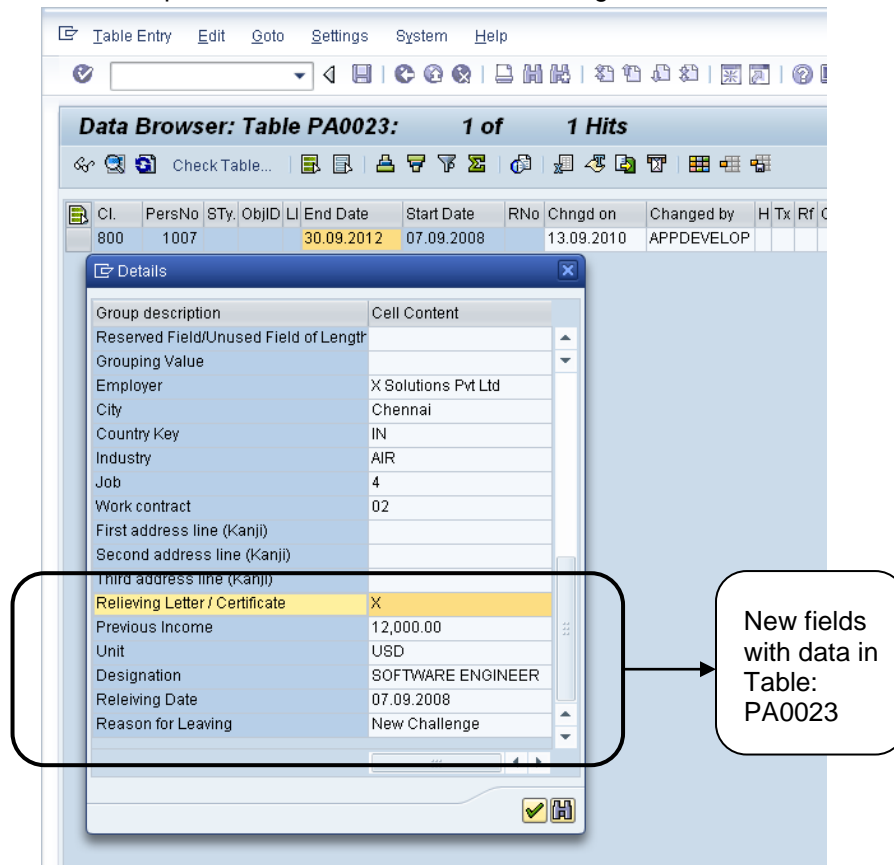
Other/previous employers

Employer X Solutions Pvt Ltd
 City Chennai
 Country Key IN India
 Industry AIR Airlines
 Job 4 Programmer
 Work contract 02 Freelance

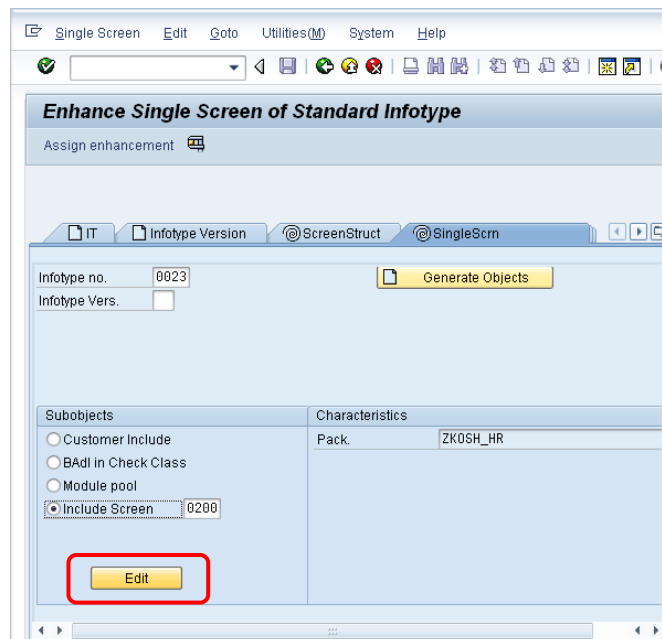
Prev Org Details

Releiving Date 07.09.2008
 Designation Software Engineer
 Previous Income 12000 USD
 Relieving Letter / Certificate
 Reason for Leaving New Challenge

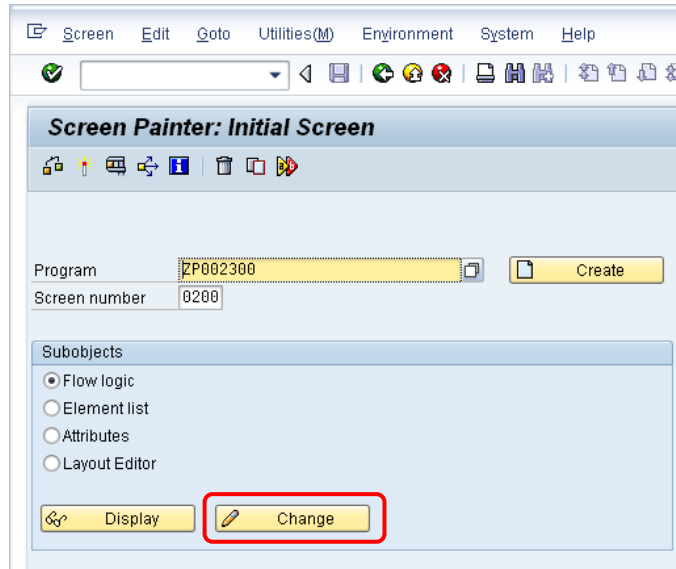
13. The saved details will be captured in the Table PA0023, including the new fields :



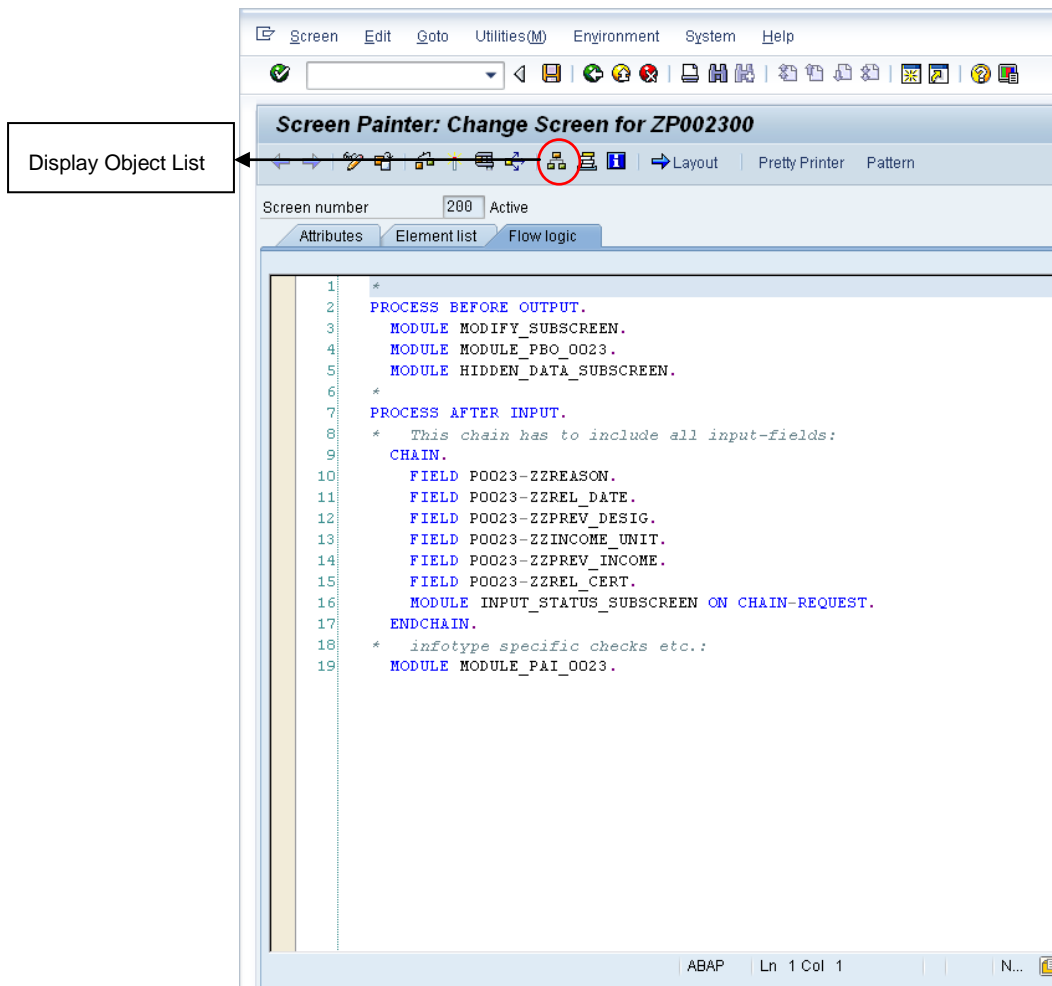
14. Now, we will see how to validate a field which we have added. Supposing we want to restrict the user from entering a future date in the Relieving Date field, we can go to the transaction PM01, enter the Info type 0023 and then select SingleScrn tab. Choose the Include Screen radio button and enter 0200 and click on Edit.



It navigates to the Screen Painter (SE51) transaction. The program ZP002300 is shown. Select Flow logic and click on CHANGE.

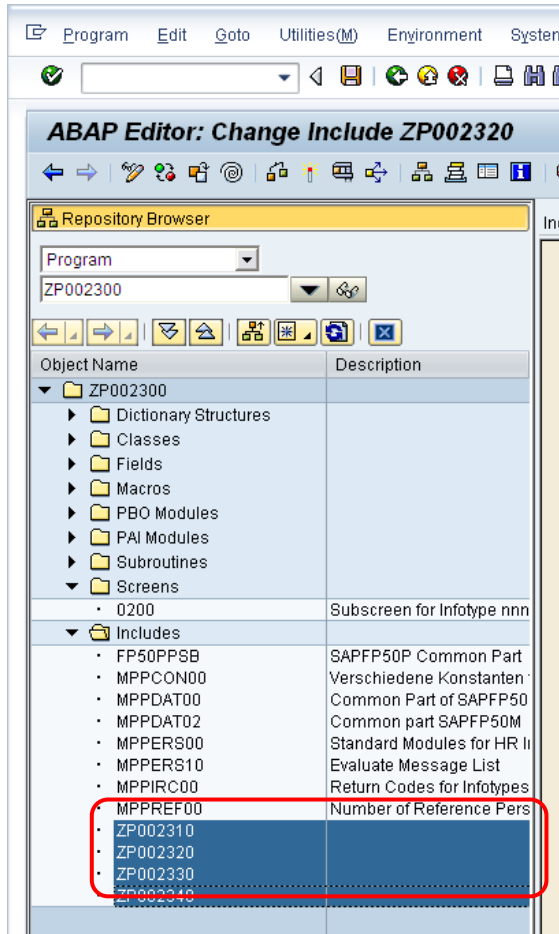


15. We can have the field validation in the PAI of the Flow logic of Screen No: 0200. If we expand the Object List of Program ZP002300, we can find many Includes

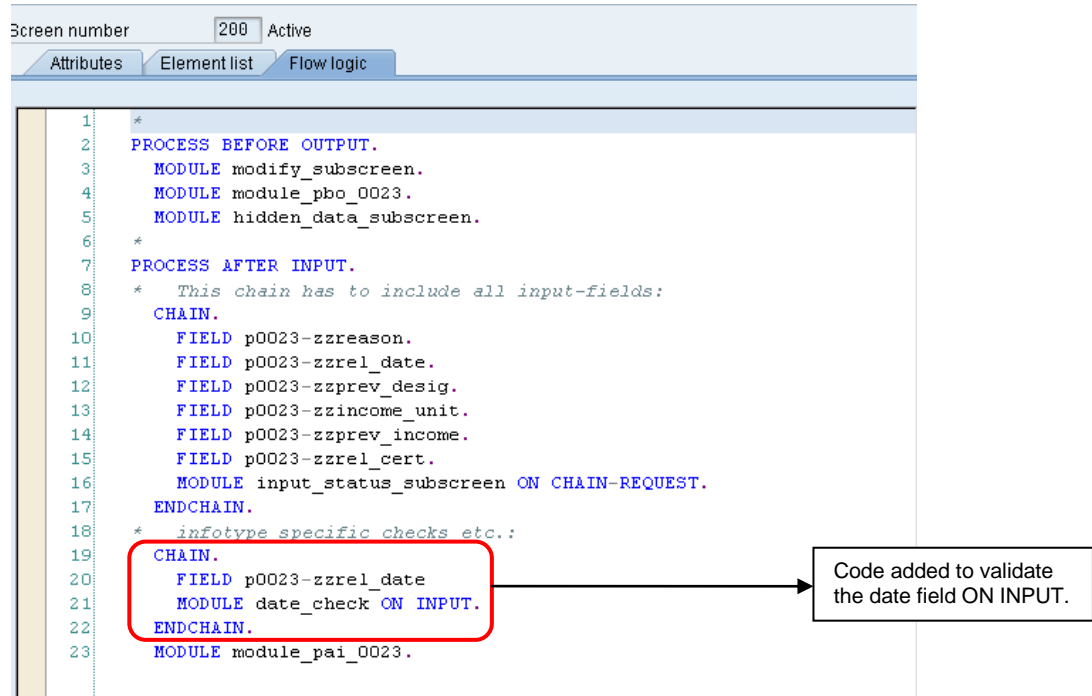


There are 4 Includes starting with Z, shown below:

- ZP002310 : Include Program for Data Definitions
- ZP002320 : Include for PBO Module
- ZP002330 : Include for PAI Module
- ZP002340 : Include for Subroutines



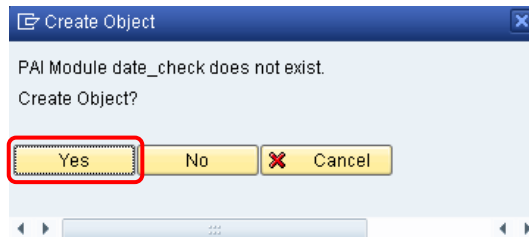
16. In our scenario, since we need to validate the field: Relieving date, we can type the code in the Flow logic of screen 0200 as shown below and save it :



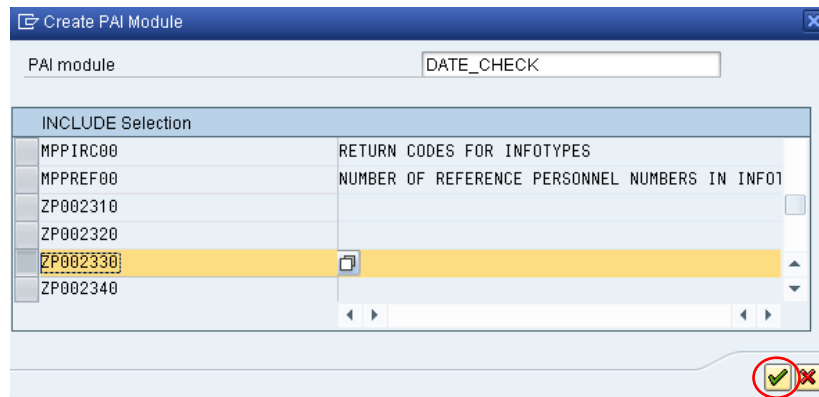
```

1  *
2  PROCESS BEFORE OUTPUT.
3  MODULE modify_subscreen.
4  MODULE module_pbo_0023.
5  MODULE hidden_data_subscreen.
6  *
7  PROCESS AFTER INPUT.
8  * This chain has to include all input-fields:
9  CHAIN.
10 FIELD p0023-zzreason.
11 FIELD p0023-zzrel_date.
12 FIELD p0023-zzprev_desig.
13 FIELD p0023-zzincome_unit.
14 FIELD p0023-zzprev_income.
15 FIELD p0023-zzrel_cert.
16 MODULE input_status_subscreen ON CHAIN-REQUEST.
17 ENDCHAIN.
18 * infotype specific checks etc.:
19 CHAIN.
20 FIELD p0023-zzrel_date
21 MODULE date_check ON INPUT.
22 ENDCHAIN.
23 MODULE module_pai_0023.
    
```

17. On double clicking the Module DATE_CHECK, we get the following pop up. Click on Yes.



18. We get the following pop up, to select the Include program in which to save this Module. Select the Include: ZP002330, and click on the green check.

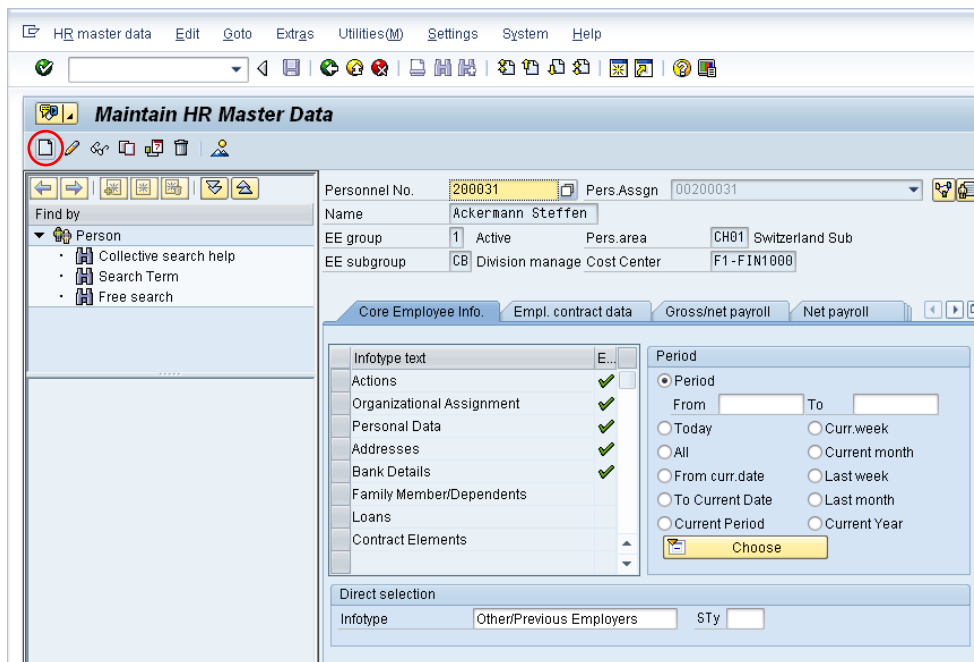


- We are taken to the Source code of Include ZP002330, where we can type our required code. In this case, as follows :

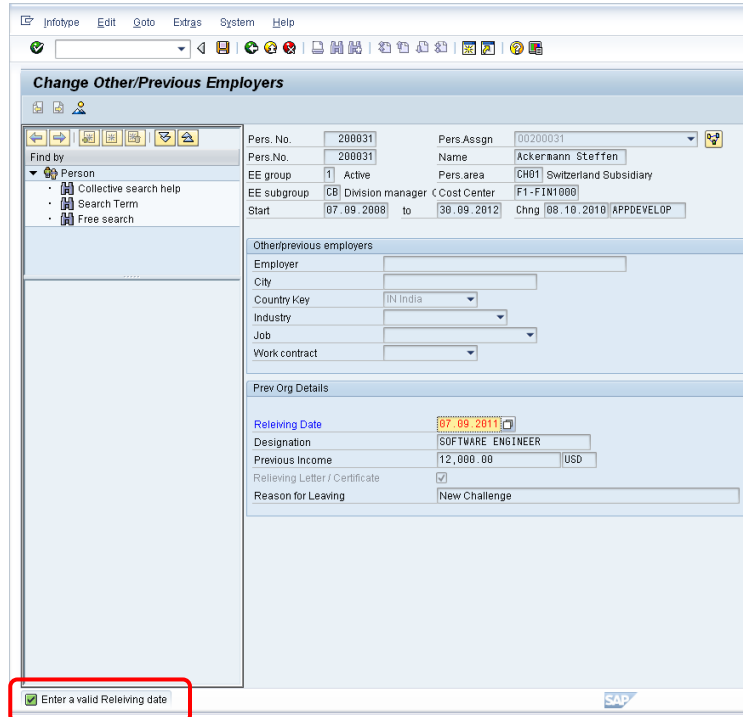
```

Include      ZP002330      Active
-----
1  *-----*
2  *  INCLUDE ZP002330      *
3  *-----*
4
5  *&-----*
6  *&      Module  MOD_PAI  INPUT
7  *&-----*
8  *      text
9  *-----*
10 *  MODULE MODULE_PAI_0023 INPUT.
11
12 *  ENDMODULE.              " MOD_PAI  INPUT
13 *&-----*
14 *&      Module  DATE_CHECK INPUT
15 *&-----*
16 *      text
17 *-----*
18 *  module DATE_CHECK input.
19
20 *  IF p0023-zzrel_date GE sy-datum.
21 *      MESSAGE 'Enter a valid Releiving date' TYPE 'E' DISPLAY LIKE 'S'.
22 *  ENDF.
23 *  endmodule.              " DATE CHECK INPUT
    
```

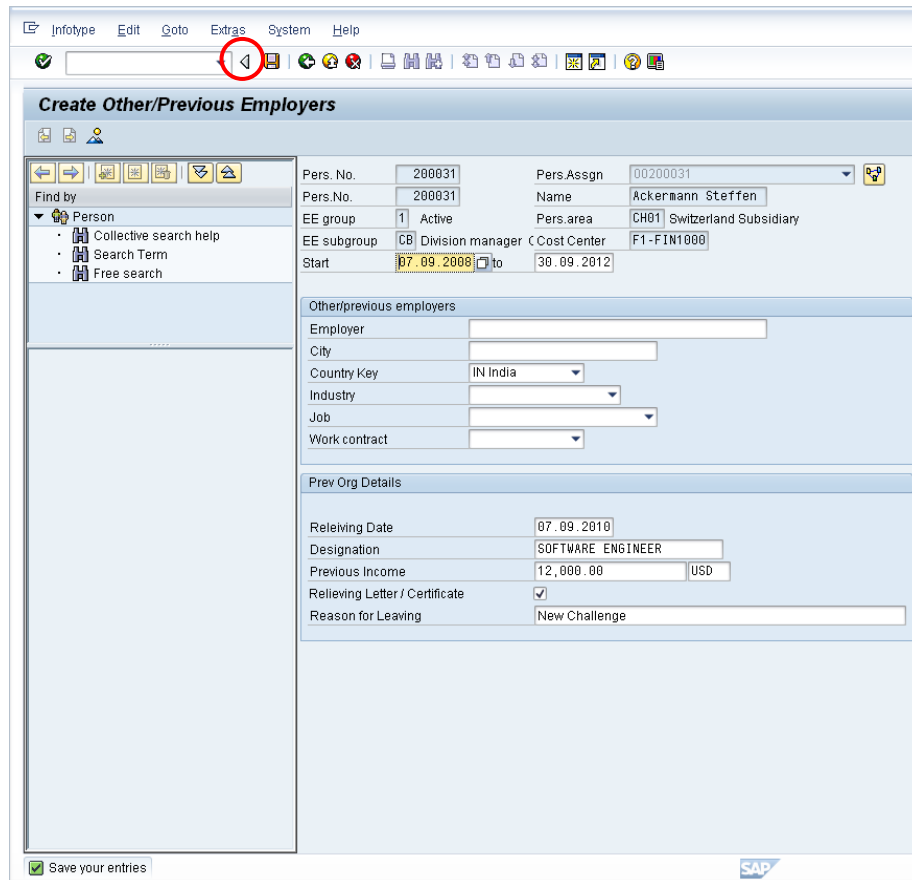
- Save and Activate the Program ZP002300.
- In order to test this field validation, go to PA30 transaction and try to create a new entry for Info type 0023 for a personnel number (In this case, we are choosing a personnel no 200031 which had no entry for the Info type 0023).



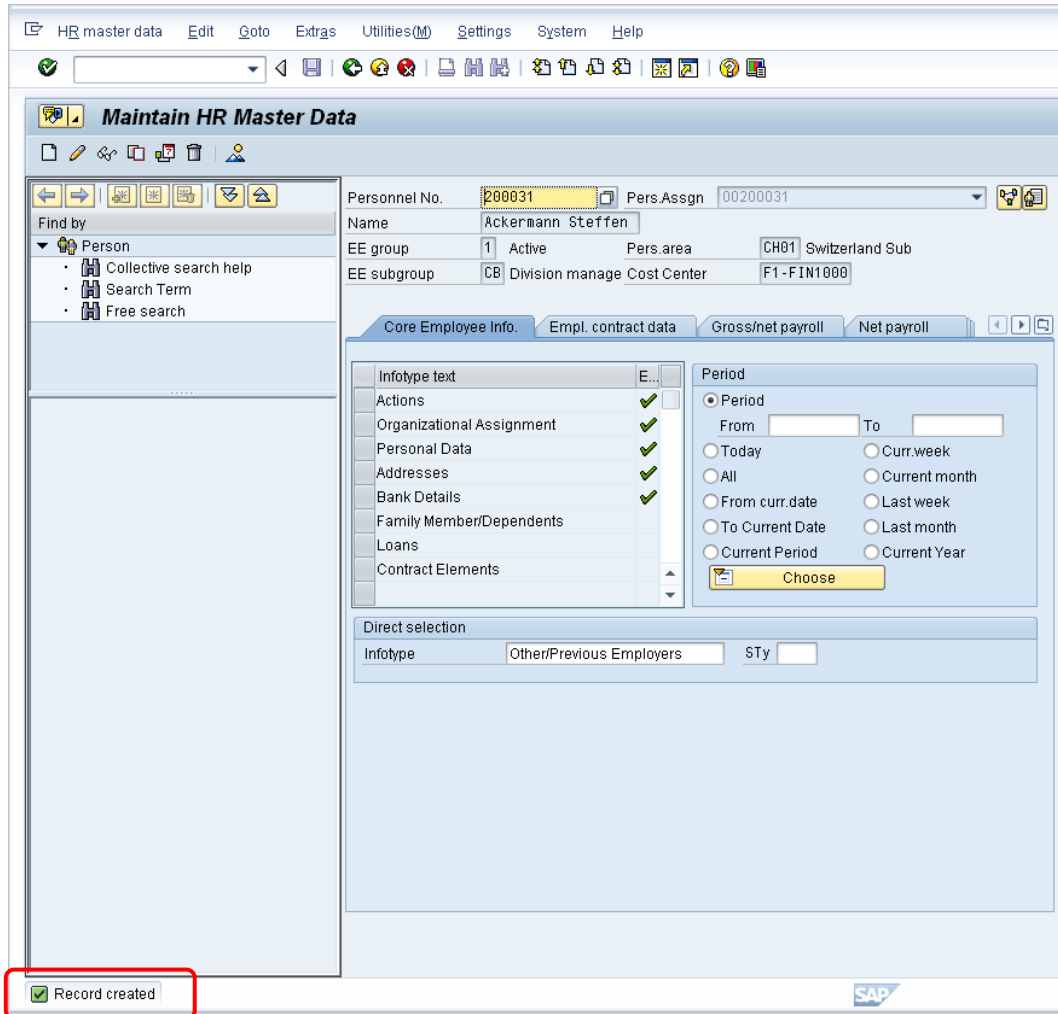
22. We will try saving the Info type record with the field Relieving date having a future date. On which we get the following error, and the field to be changed will be highlighted.



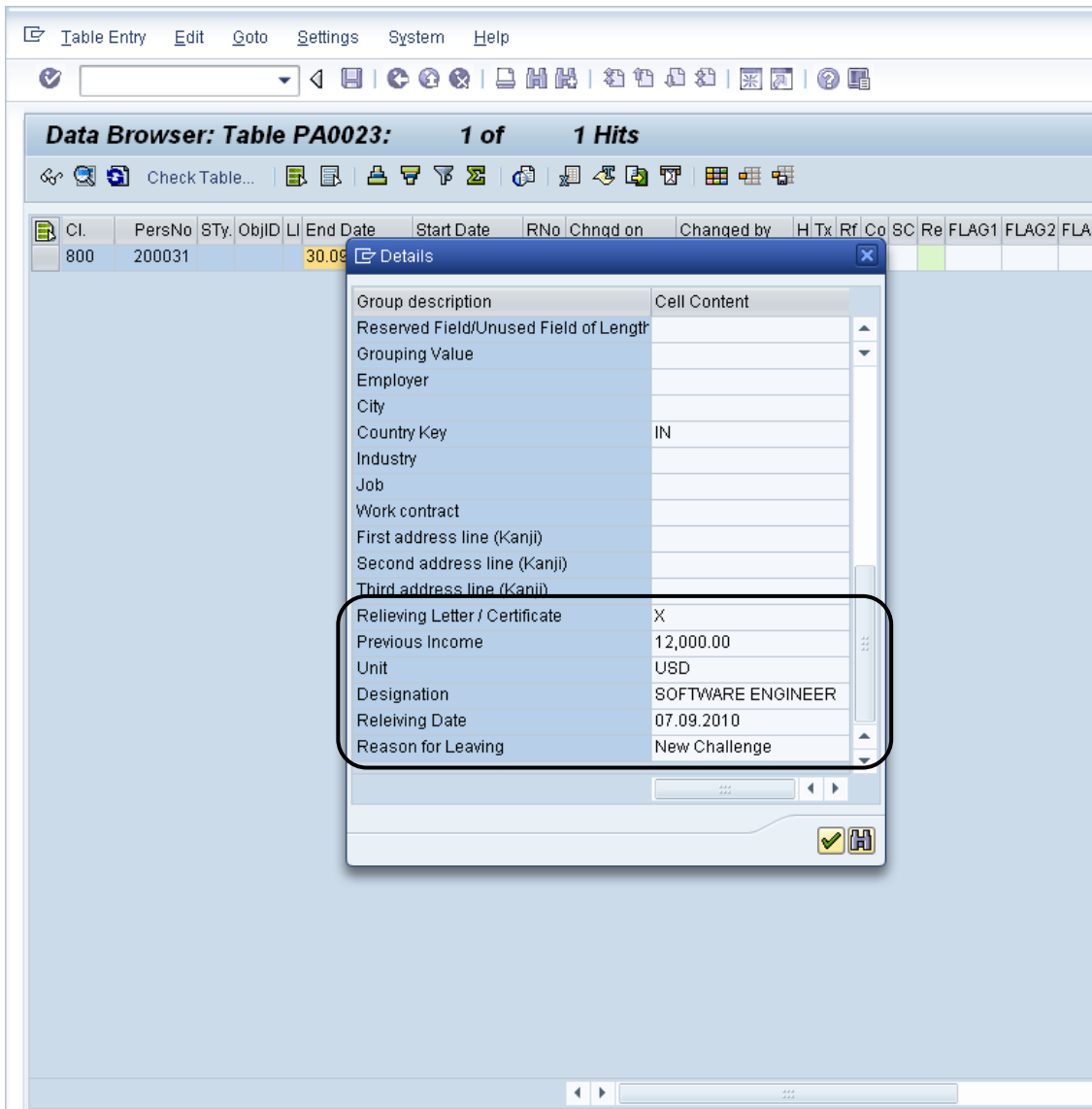
23. Once we correct the date, we are able to save the Info type, and the entry gets saved in the database table PA0023 just as demonstrated earlier in point no: 14.



24. On clicking save, we get the following notification and redirected to the initial screen of transaction PA30.



25. The saved values will be reflected in the database table PA0023 as follows :



Related Content

[Enhancing an Info type Included in the SAP Standard System](#)

[Enhancement Info type](#)

[Enhancement Info type](#)

For more information, visit the [ABAP homepage](#)

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