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Applies To:

SAP Technology / Product

Summary

BATCH DATA COMMUNICATION

BDC is used to transfer data from SAP to SAP system or from a non-SAP system to SAP system. It uses the normal Transaction codes to transfer the data. This method is used to transfer large amount data that is available in electronic form.

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BATCH DATA COMMUNICATION – Part 2

Step 5:

Once after providing valid screen entries click save button in standard toolbar or ctrl+F2 to get the display of the full recording that has been done. Here the recording displays the hardcore values which have been given as screen inputs, any modifications to the field inputs can be done here.

Refer Fig 9 to see the recording. Here the material number (material_000000001) for field matnr and material description (new material creation) for field maktx are hard coded and displayed in the recording. See the field name column and the corresponding field value column in the screen shot below.

Fig 9: Recording displayed with hard coded values

	Program	Screen	St...	Field name	Field value
1			T	MM01	
2	SAPLMGMM	0060	X		
3				BDC_CURSOR	RMMG1-MATNR
4				BDC_OKCODE	=AUSW
5				RMMG1 - MATNR	material_000000001
6				RMMG1 - MBRSH	M
7				RMMG1 - MTART	HAWA
8	SAPLMGMM	0070	X		
9				BDC_CURSOR	MSICHTAUSW-DYTXT(01)
10				BDC_OKCODE	=ENTR
11				MSICHTAUSW-KZSEL (01)	X
12	SAPLMGMM	4004	X		
13				BDC_OKCODE	=BIPR
14				BDC_SUBSCR	SAPLMGMM 2004TABFRA1
15				BDC_SUBSCR	SAPLMGD1 1002SUB1
16				MAKT - MAKTX	new material creation
17				BDC_SUBSCR	SAPLMGD1 2001SUB2
18				BDC_CURSOR	MARA-MEINS

Step 6:

Once after this click save button or ctrl + F2 and then click back button or F3 to view the created recording in the transaction recorder initial screen. Fig 10. displays the new recording created in the name ZBDC_REC1.

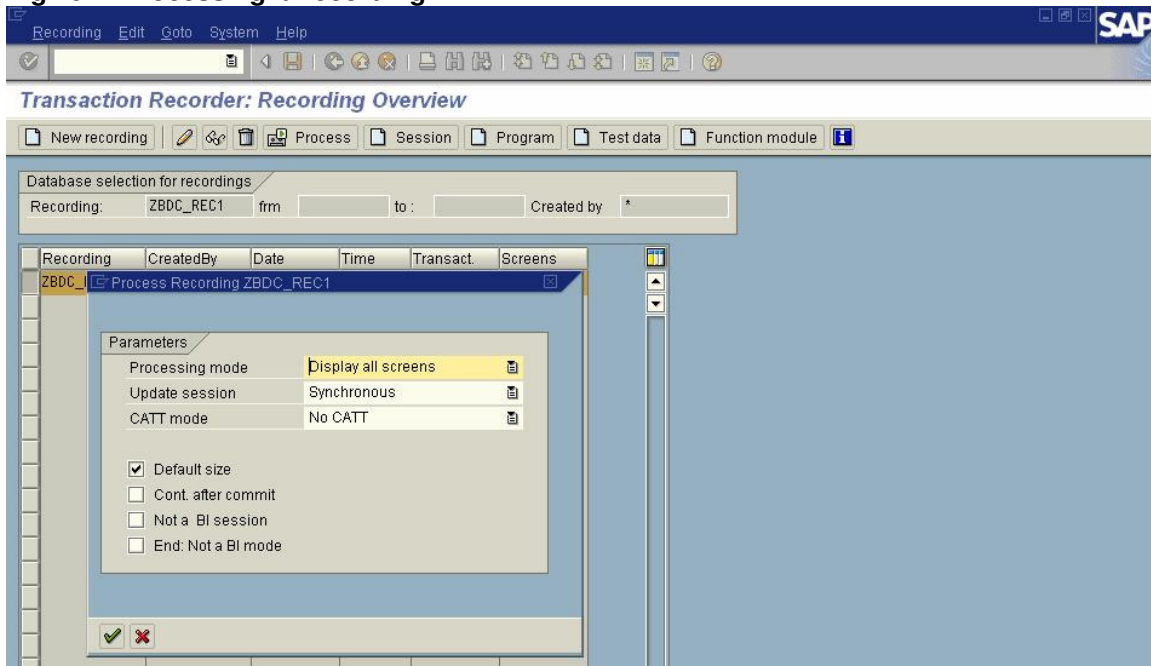
Fig 10.1: Processing a recording



Step 7:

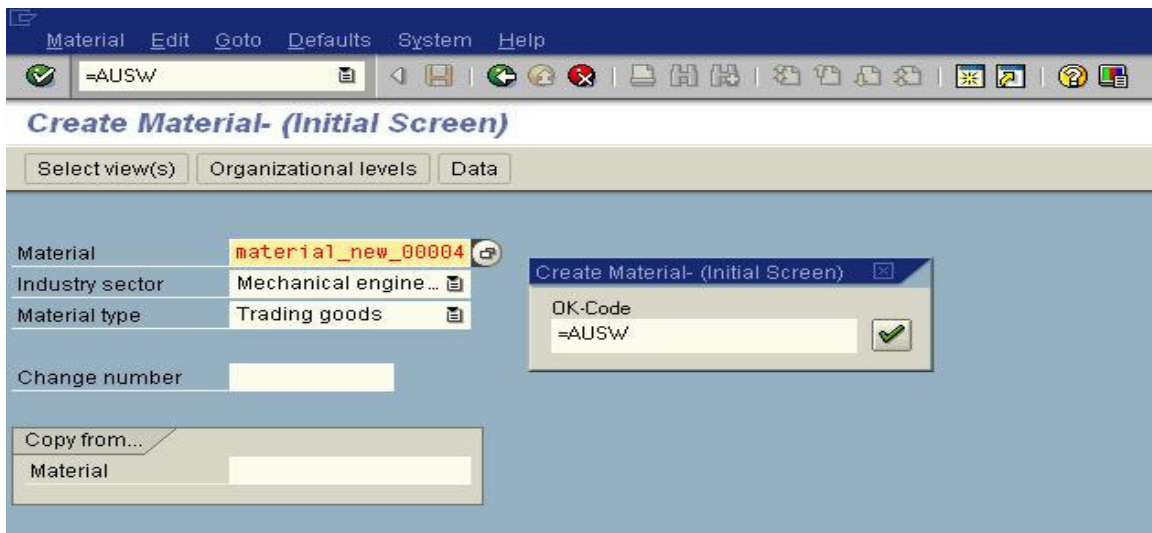
Once a recording has been successfully created then it can be processed easily. Select the recording and click process button in the application toolbar. A dialog box will be displayed prompting for the processing mode, update session. Selecting Display all screen for processing mode will display all the screens that were navigated during the recording process.

Fig 10.2: Processing a recording



Once when the session is processed it takes in the recorded value of the material number in the initial view selection screen. At this screen, change the material number to a different value to avoid the error – **material already maintained for this transaction**. In the below screen the material number has been changed to **material_new_0000 4**. Then process the successive screen sequences using the enter key. The values for fields in the screens can be changed during the processing. Finally a new material will be created with the above material number.

Fig 10.3: Processing a recording



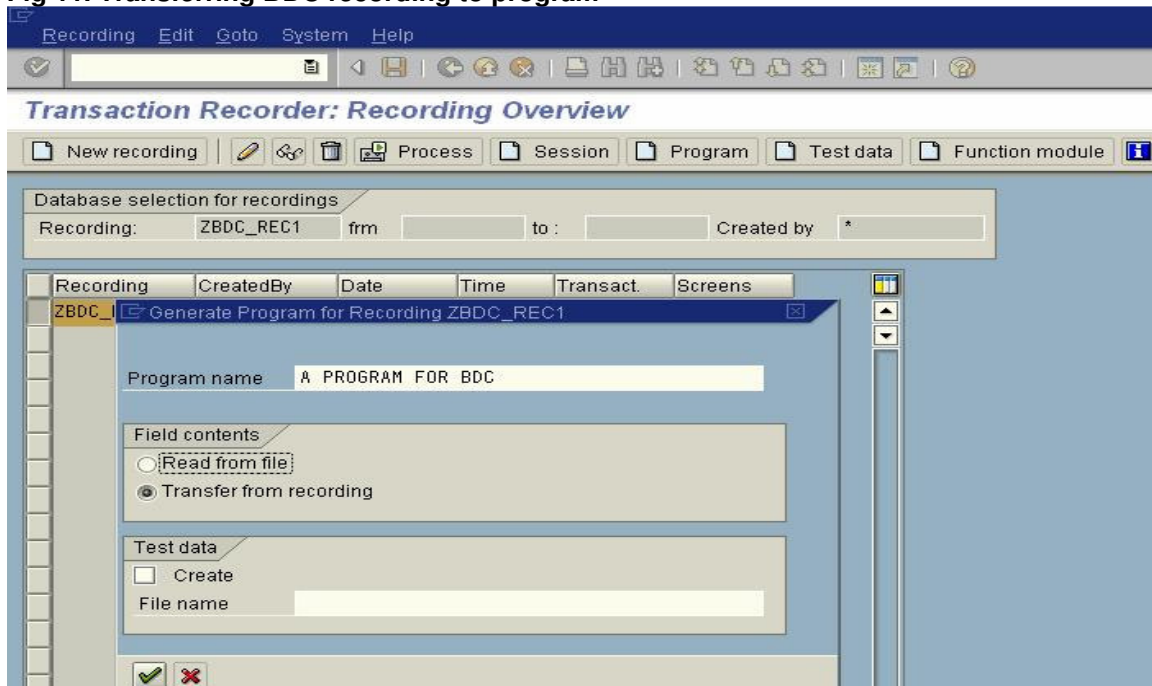
PART 2 – Using the BDC Recording in Program

Once after creating and checked a session for error free processing, lies the most useful essence of making use of the recorded session in a ABAP program. This is done using the following steps.

Step 1:

Selected the recording in the SHDB screen, click program button in the application toolbar. The screen Generate Program for Recording appears as below. Give a name to the program that is going to hold the recording code. Click the radio button transferring the code from a recording. Press enter. The system prompts for the program attributes screen, fill the program title, type and press source code button. The BDC recording code gets copied to the new program created.

Fig 11. Transferring BDC recording to program



Step2:

The program will be something similar the one in the Fig 12. The program holds in it a set of subroutines (perform statements) for screen number selection, screen field inputs, and OK Code that corresponds to the screen.

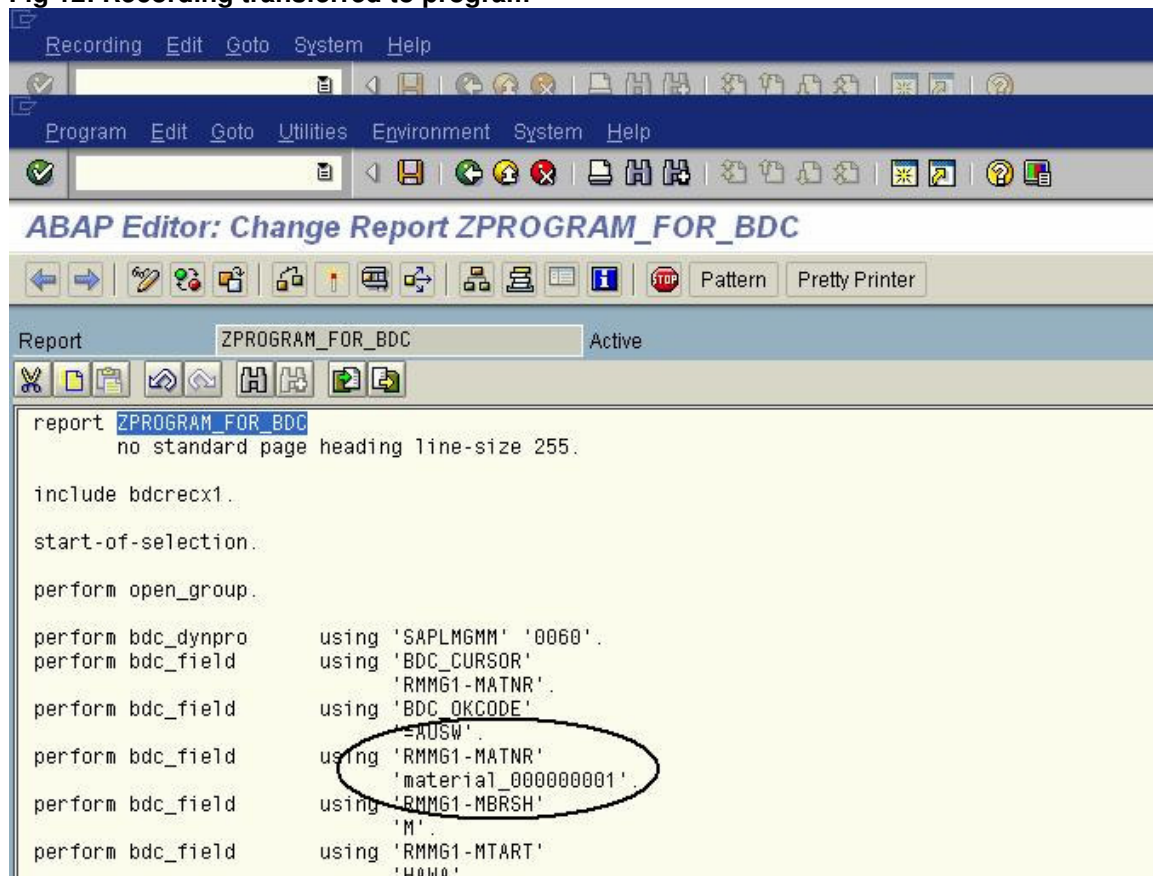
Eg; **perform bdc_dynpro** using 'SAPLMGMM' '0060'.
perform bdc_field using 'BDC_OKCODE'
 '= AUSW'.
perform bdc_field using 'RMMG1-MATNR'
 'material_new_00001'.

The perform dynpro corresponds to the instruction to the system to open the screen with number 0060 for the program SAPLMGMM.

The perform bdc_field for OK-CODE passes the ok-code (**sy-ucomm value**) to be passed to the screen to perform the display of the material number input tabs. Once when the system executes this code it displays the material number input tab. (refer fig 10.3 – see the value of the ok-code which is **AUSW** as in the recording).

The perform bdc_field for RMMG1-MATNR is a subroutine to receive the input for **material** number. In this recording it holds the hard coded value which was given at the time of creating the recording.

Fig 12: Recording transferred to program



Step 3:

Once this is over, by slightly altering the recording coding this program can be used to create as many material as per the need.

- 1) Declare an input table to hold the field values that is needed to be passed to the material.
- 2) Upload a flat file with the actual data to be passed into the application server.
- 3) Remove the hard coded values in the program and substitute them with the corresponding internal table fields.
- 4) Refer to the program code for better understanding. Refer the fig 13 to know how the internal table fields have been substituted for hard core values. Compare fig 12 and 13.

Fig 13: Hard codes substituted with internal table fields.

```

tables
  data_tab = intab1.

*****
* NOW THE RECORDS FROM FLAT FILE ARE LOADED INTO THE INTERNAL TABLE
* INTAB1 WHICH IS THEN PASSED TO THE BDC TRANSACTION.
*****

start-of-selection.

*****
* OPEN BATCH INPUT SESSION.
*****

perform open_group.

*****
* LOOPING EACH RECORD OF THE INTERNAL TABLE INTO THE BDC TRANSACTION TO
* CREATE A MATERIAL FOR EACH RECORD ENTRY.
*****

loop at intab1 into wa_itab1.

perform bdc_dynpro      using 'SAPLMGMM' '0060'.
perform bdc_field       using 'BDC_CURSOR'
                             'RMMG1-MATNR'.
perform bdc_field       using 'BDC_OKCODE'
                             '=AUSW'.
perform bdc_field       using 'RMMG1-MATNR'
                             intab1-matnr.

perform bdc_field       using 'RMMG1-MBRSH'
                             'M'.
perform bdc_field       using 'RMMG1-MTART'

```

Once after completion of these steps, executing the program will create as many materials passed from the upload files successfully.

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