FB01 – Document Posting (Posting keys - 40, 50, 31, 01)

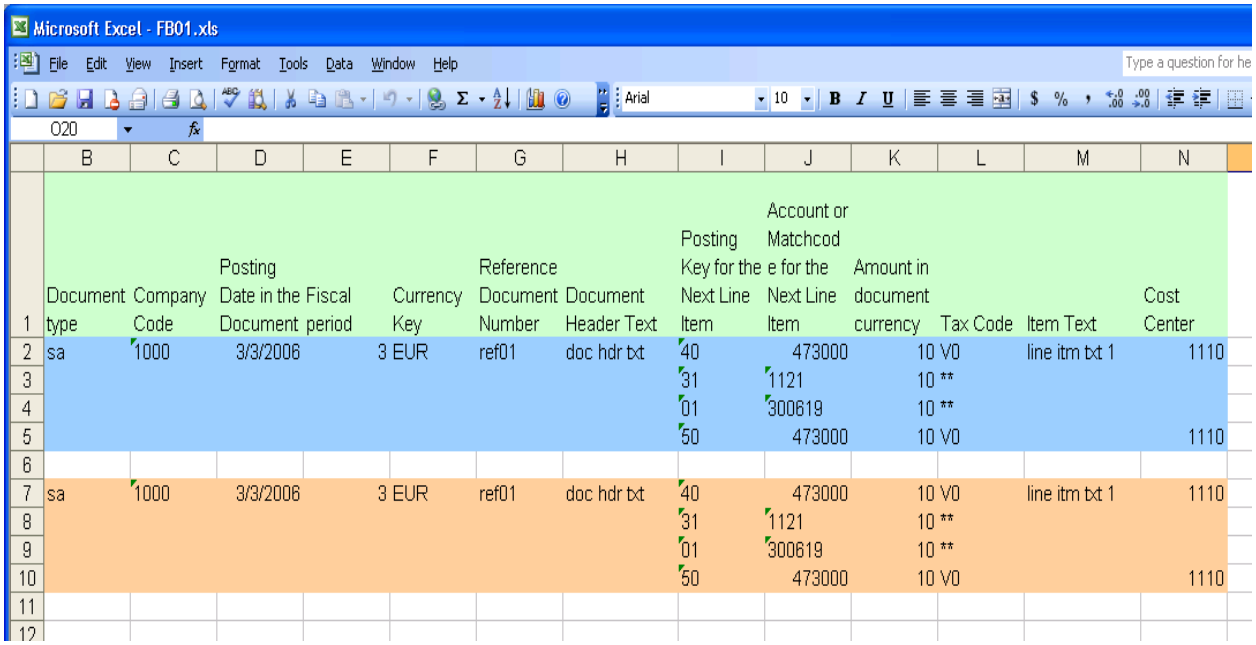
FB01 is used to post document.

Based on posting keys, the screens differ & thus the recording.

Here we will look in detail:

1. FB01 recording using Process Runner.
2. Mapper Settings – Deactivating repeating fields for inserting loop.
3. Custom DS to suppress screens based on a particular posting key.
4. Run and Validation

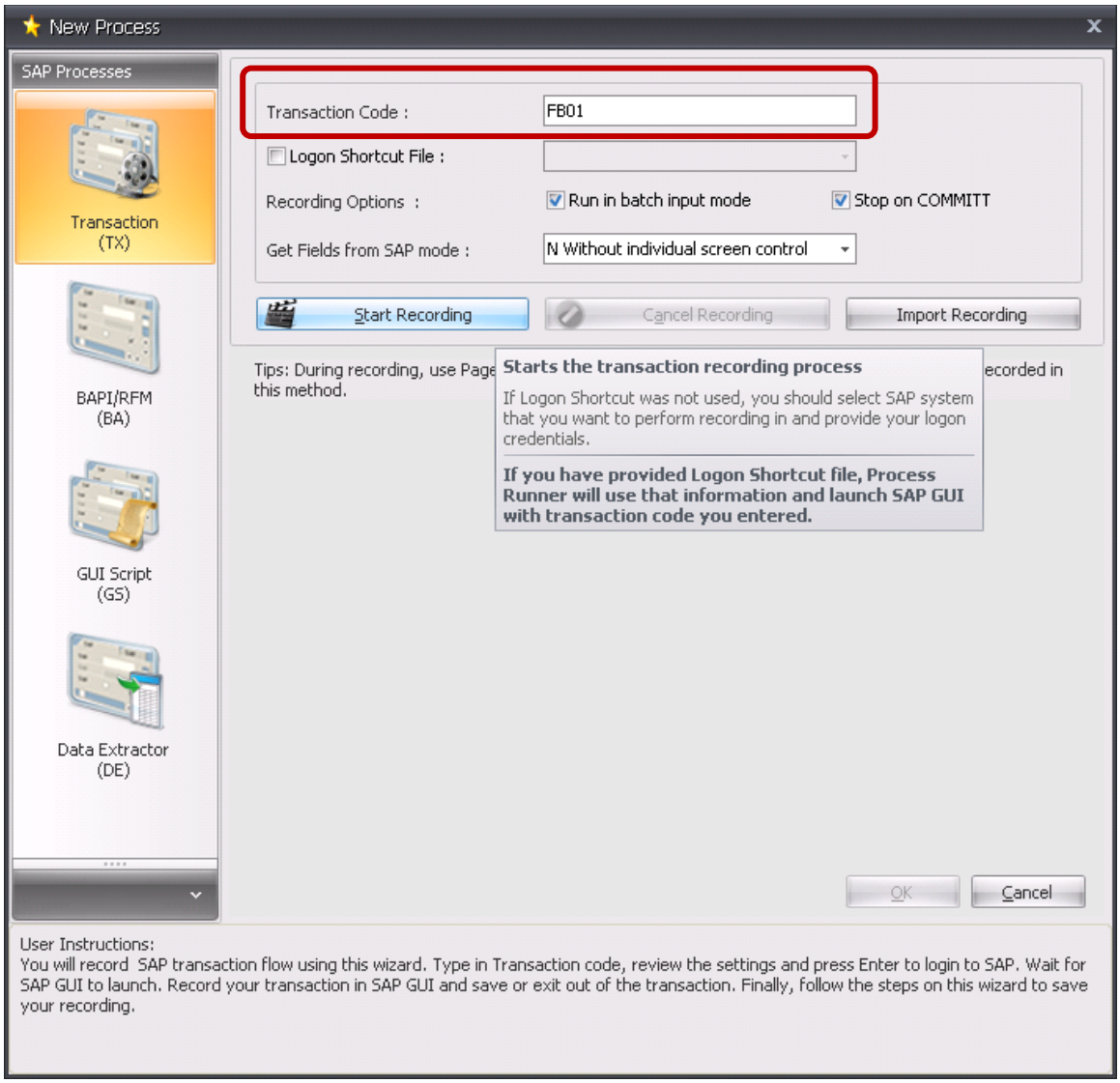
Consider the below example document file that we would like to post.



	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Document type	Company Code	Posting Date in the Document	Fiscal period	Currency Key	Reference Document Number	Document Header Text	Posting Key for the Next Line Item	Account or Matchcode for the Next Line Item	Amount in document currency	Tax Code	Item Text	Cost Center
2	sa	1000	3/3/2006		3 EUR	ref01	doc hdr txt	40	473000	10	V0	line itm txt 1	1110
3								31	1121	10	**		
4								01	300619	10	**		
5								50	473000	10	V0		1110
6													
7	sa	1000	3/3/2006		3 EUR	ref01	doc hdr txt	40	473000	10	V0	line itm txt 1	1110
8								31	1121	10	**		
9								01	300619	10	**		
10								50	473000	10	V0		1110
11													
12													

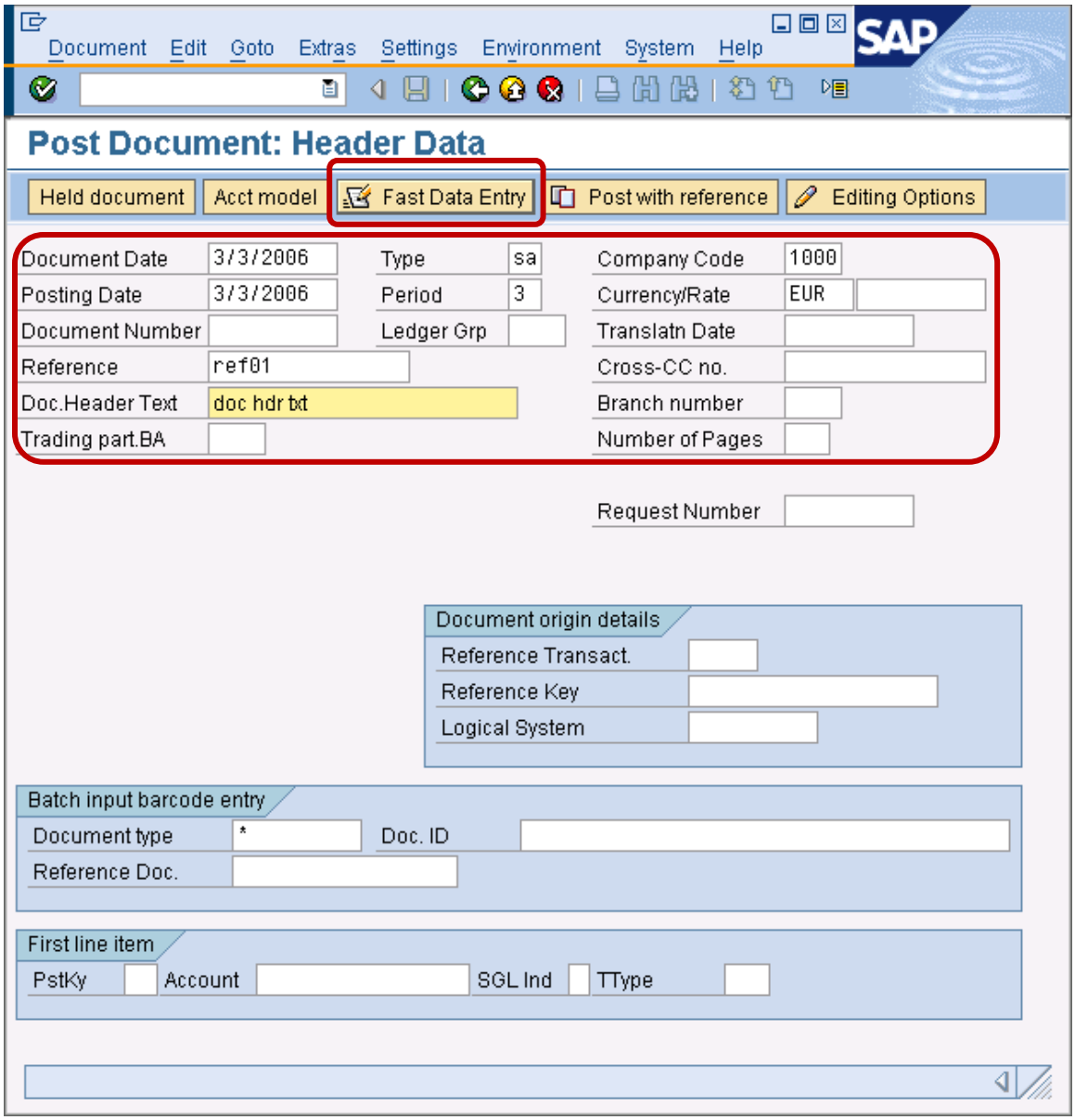
1. FB01 recording using Process Runner

Launch New Process wizard & enter FB01 in transaction.

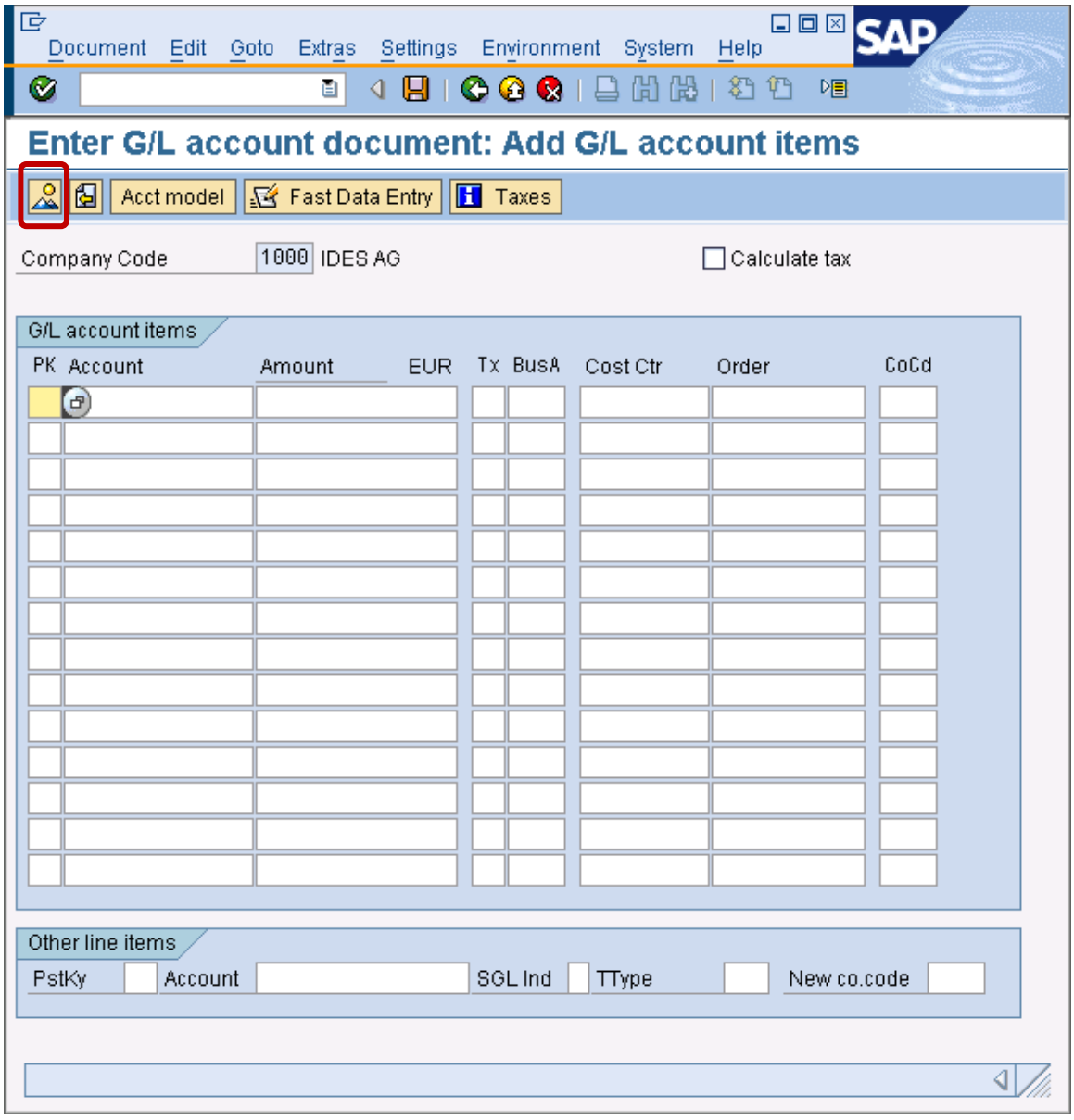


Click on Start recording & enter SAP login credentials when required.

Enter the relevant fields as required in the document file & click on **Fast Data Entry (**we will see why we click on Fast Data Entry)**.



Now click on Display Overview icon indicated below.



** We want to insert loop & therefore we need to return back every time at one particular screen that accepts posting keys.

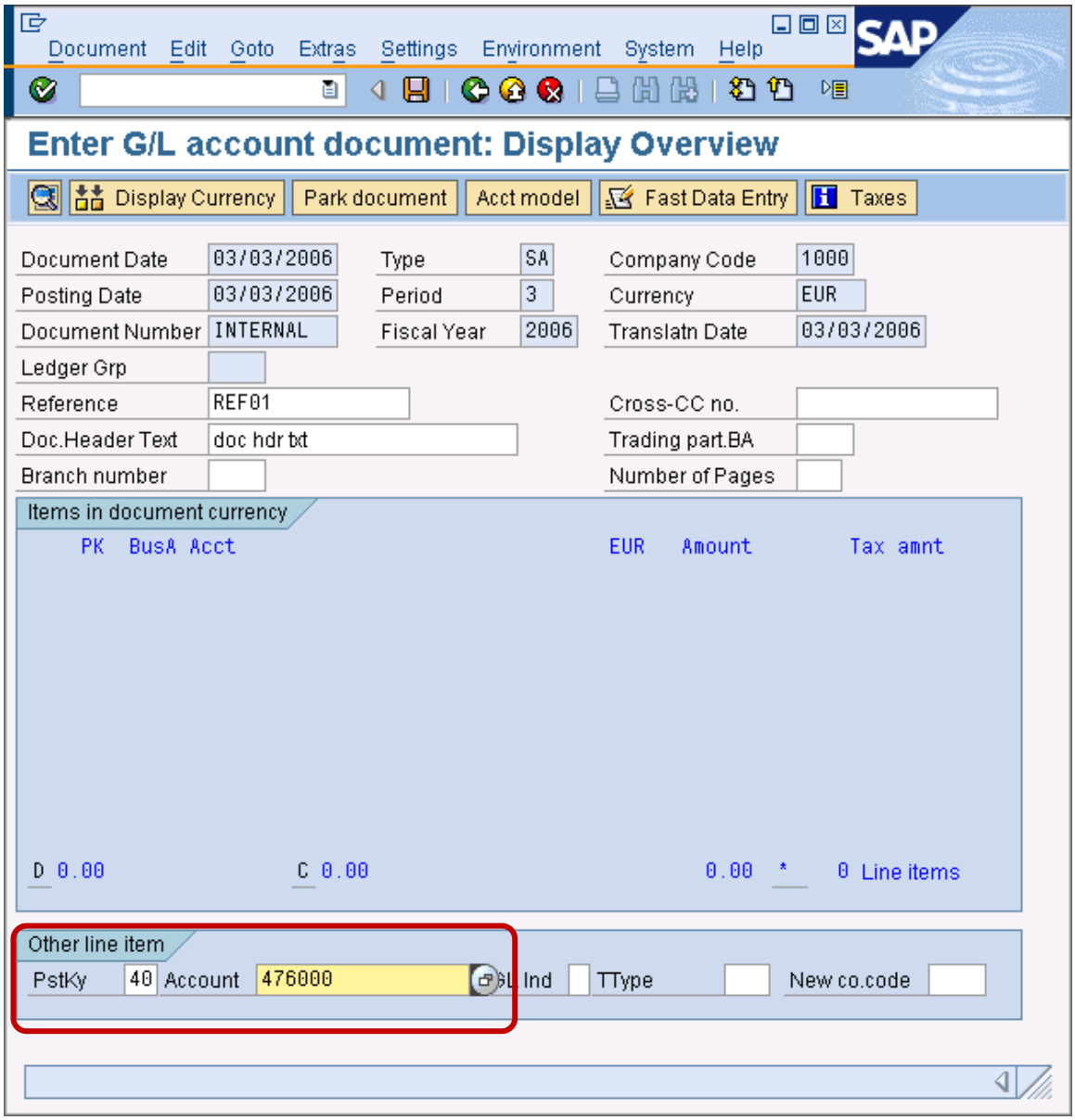
Here Display Overview is the screen in which we will need to enter posting keys.

As there was no Display overview option in **Post Document – Header Data** we need to make a round trip & click on Fast Data Entry & then from there click on Display Overview option.

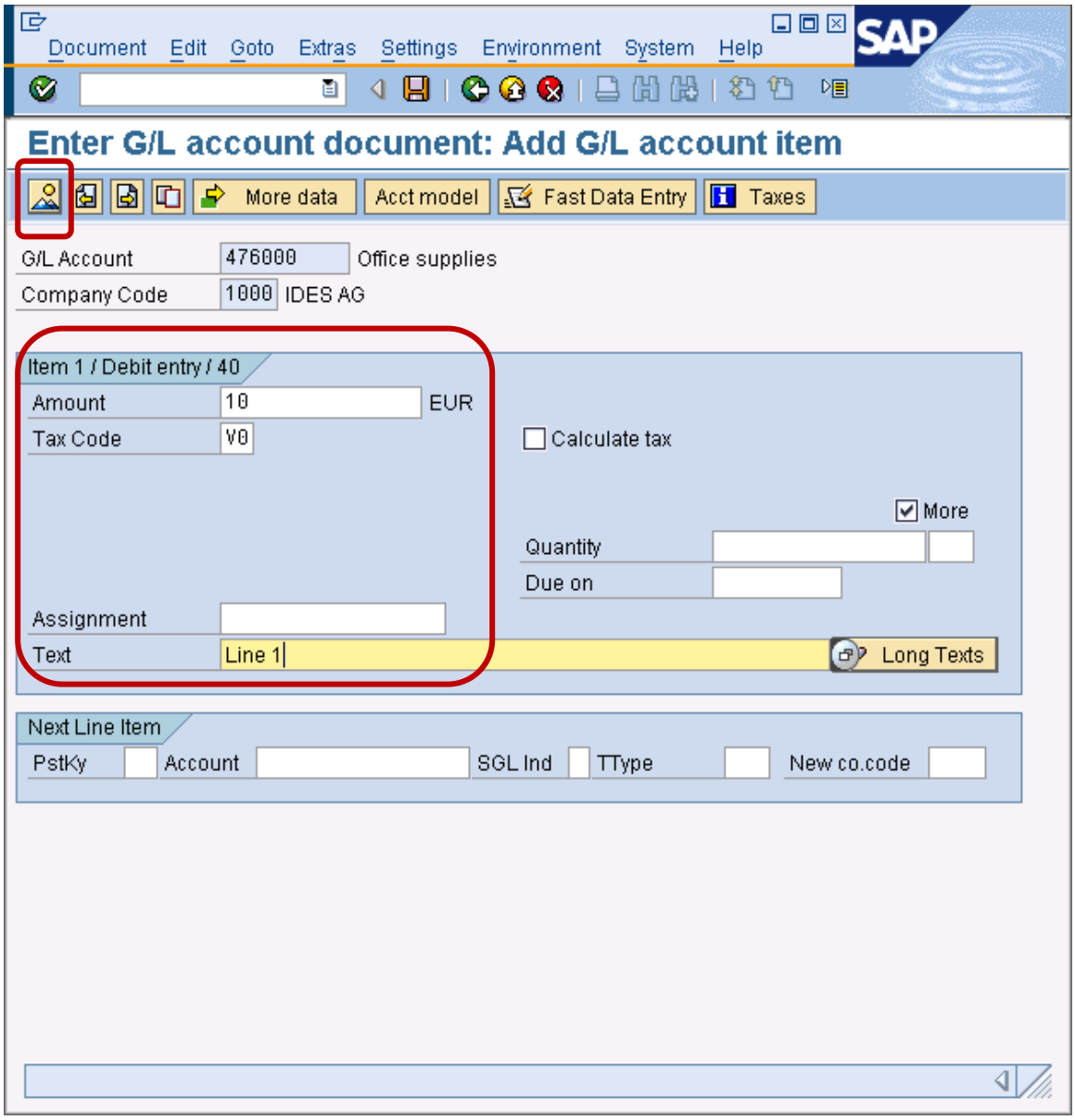
Following steps will show the Display overview screen & how we enter different posting keys.

Recording for Posting Key 40:

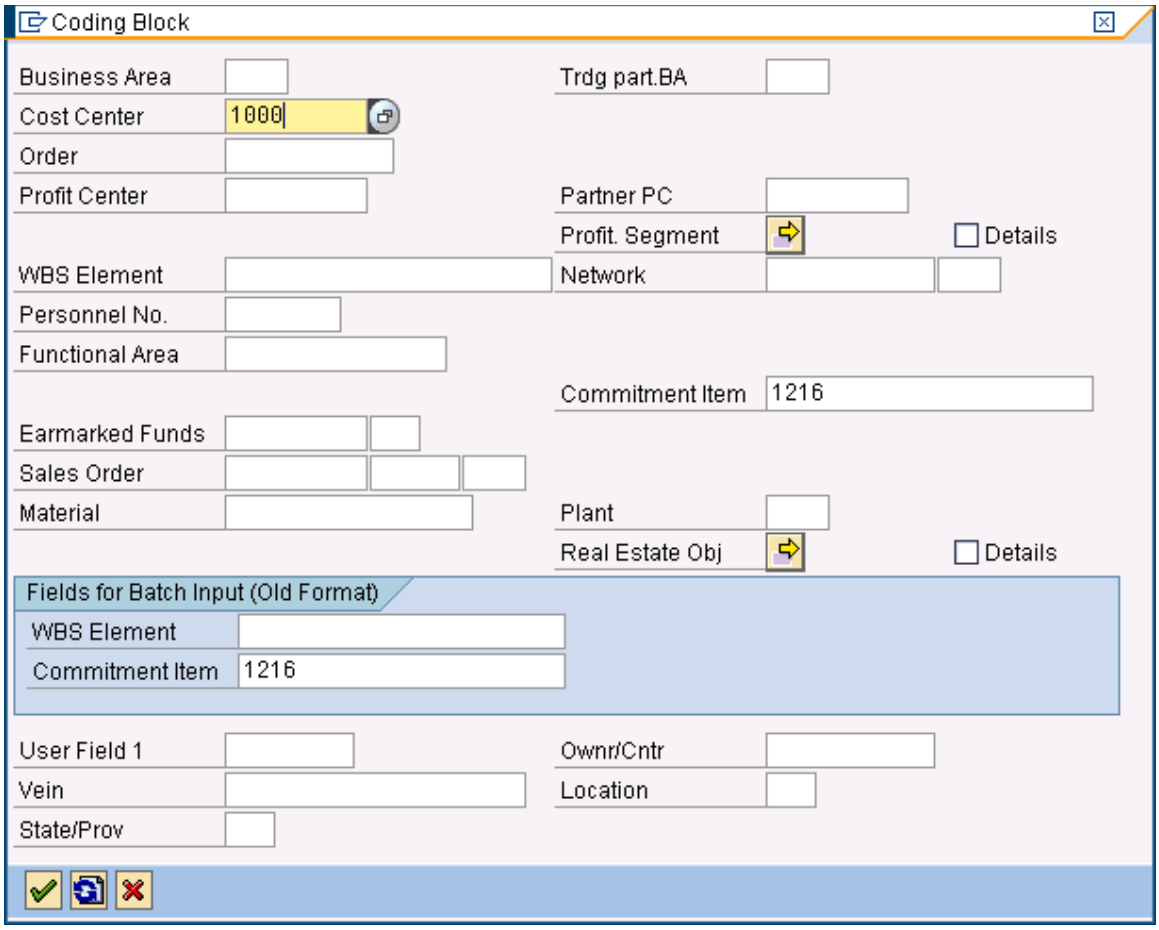
Once we are in the Display Overview screen we will enter Posting Key & account number as shown below & then hit **ENTER**.



Enter Amount, Tax Code and Text & click on Display Overview button as shown below.



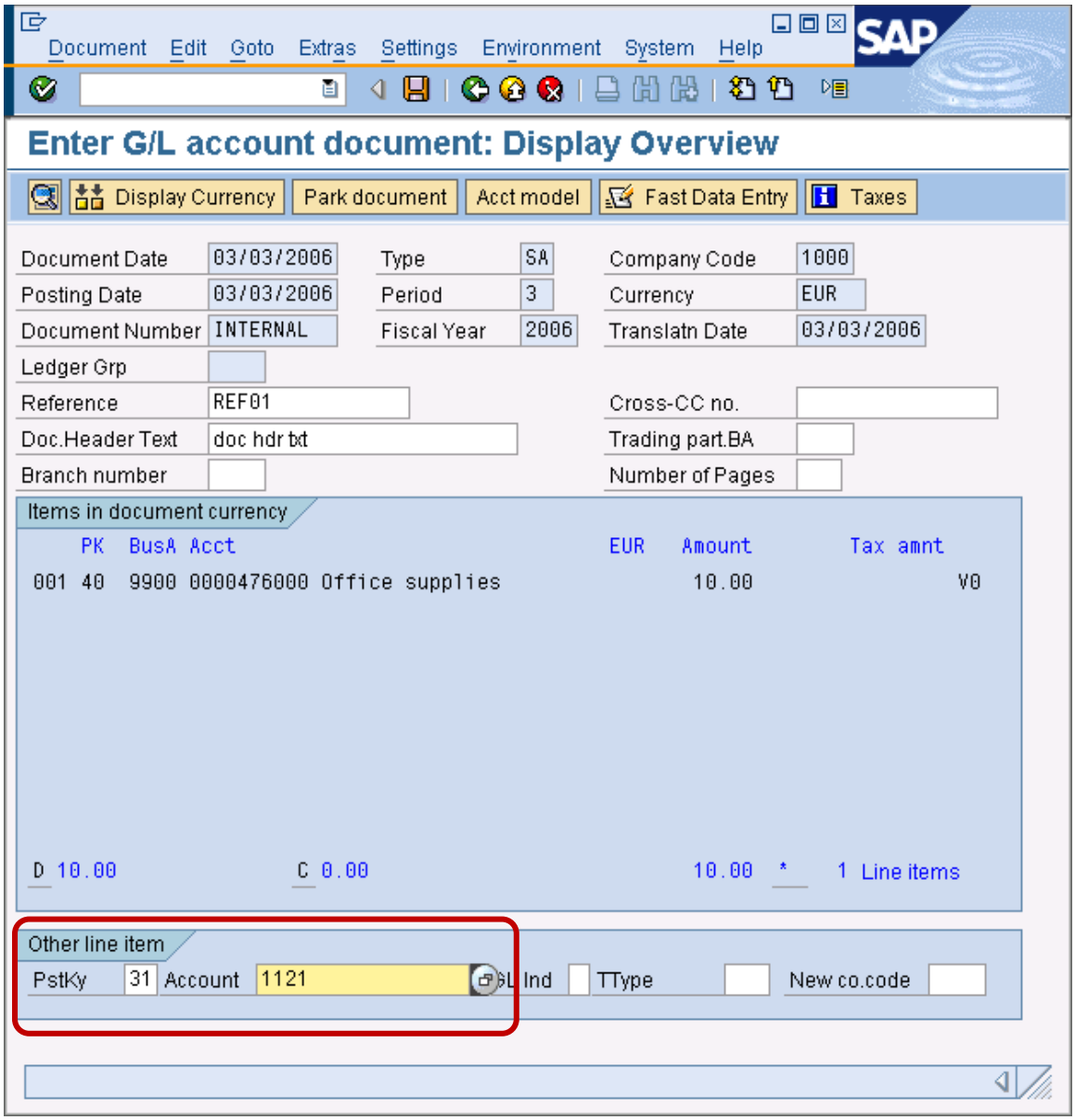
Enter Cost Center & hit **ENTER**.



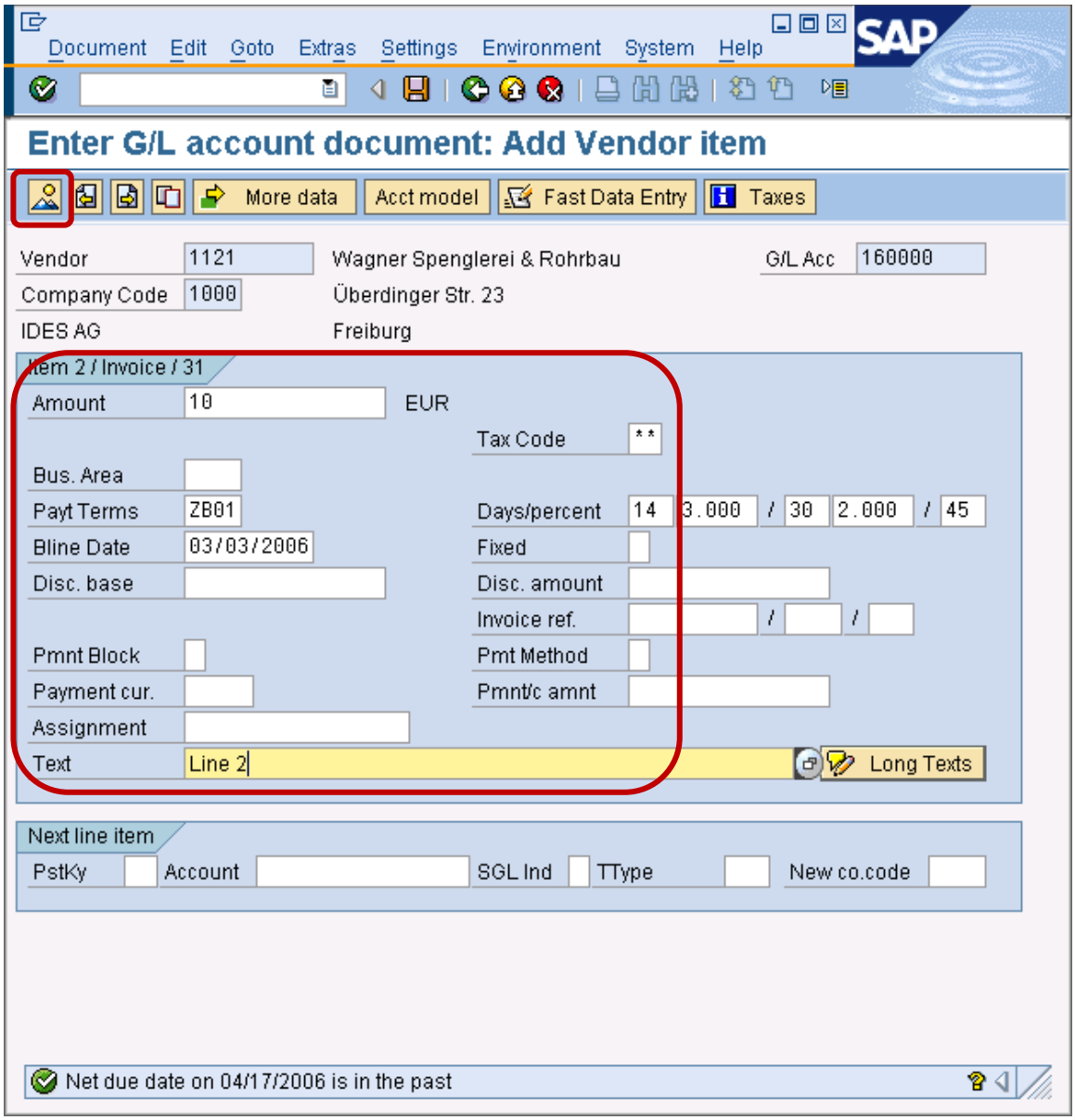
Clicking on Display Overview will take you back to the initial screen.

Recording for posting key 31:

Once in Display Overview screen enter Posting key, account & press **ENTER** as shown below.



Enter Amount, Tax code & Text & click on Display Overview button.

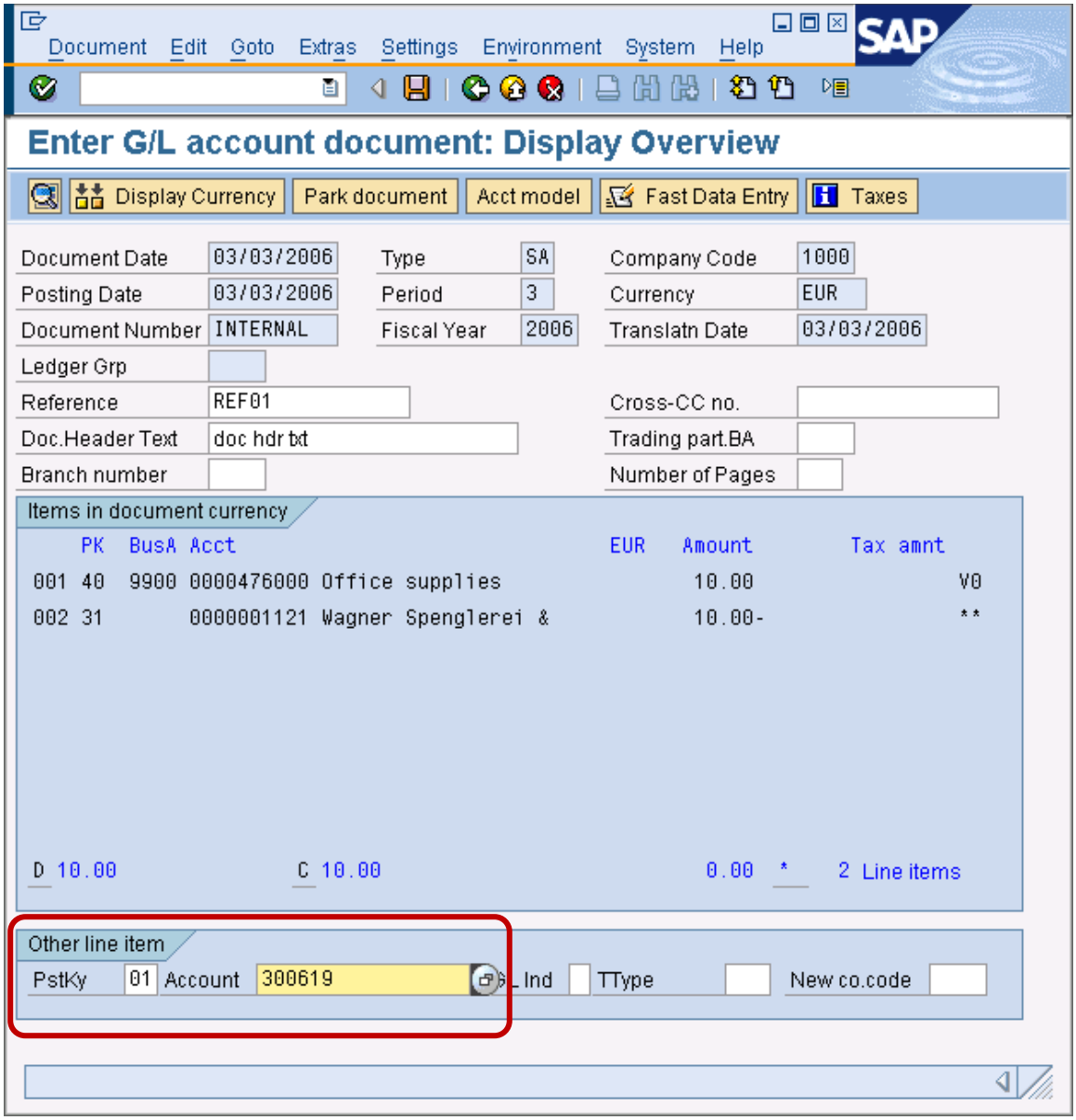


Note that it did not inquire for Cost center in this posting key.

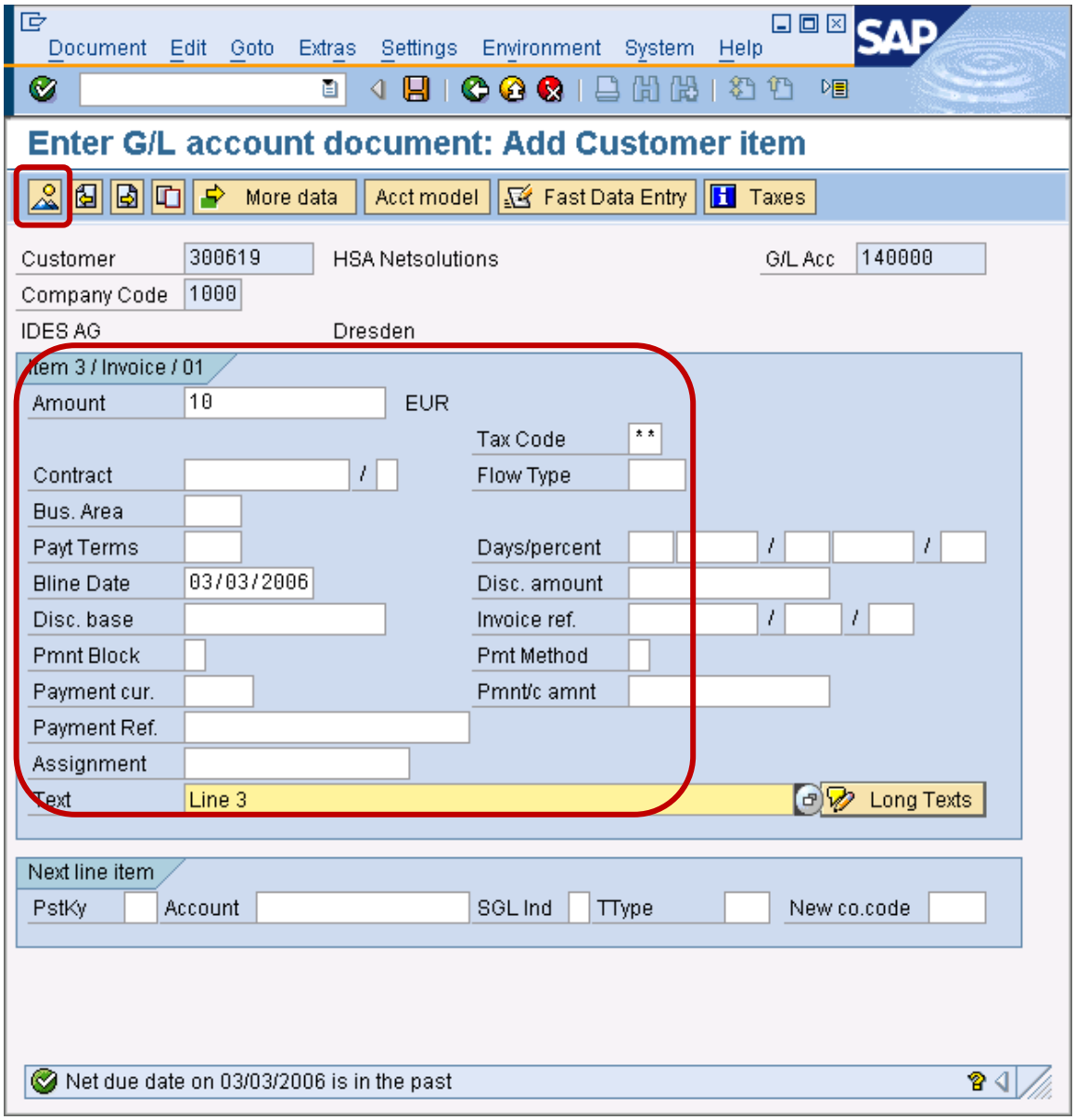
Recording for posting key 01:

This is similar to what we did for 31.

Enter Posting key, account & hit **ENTER**.

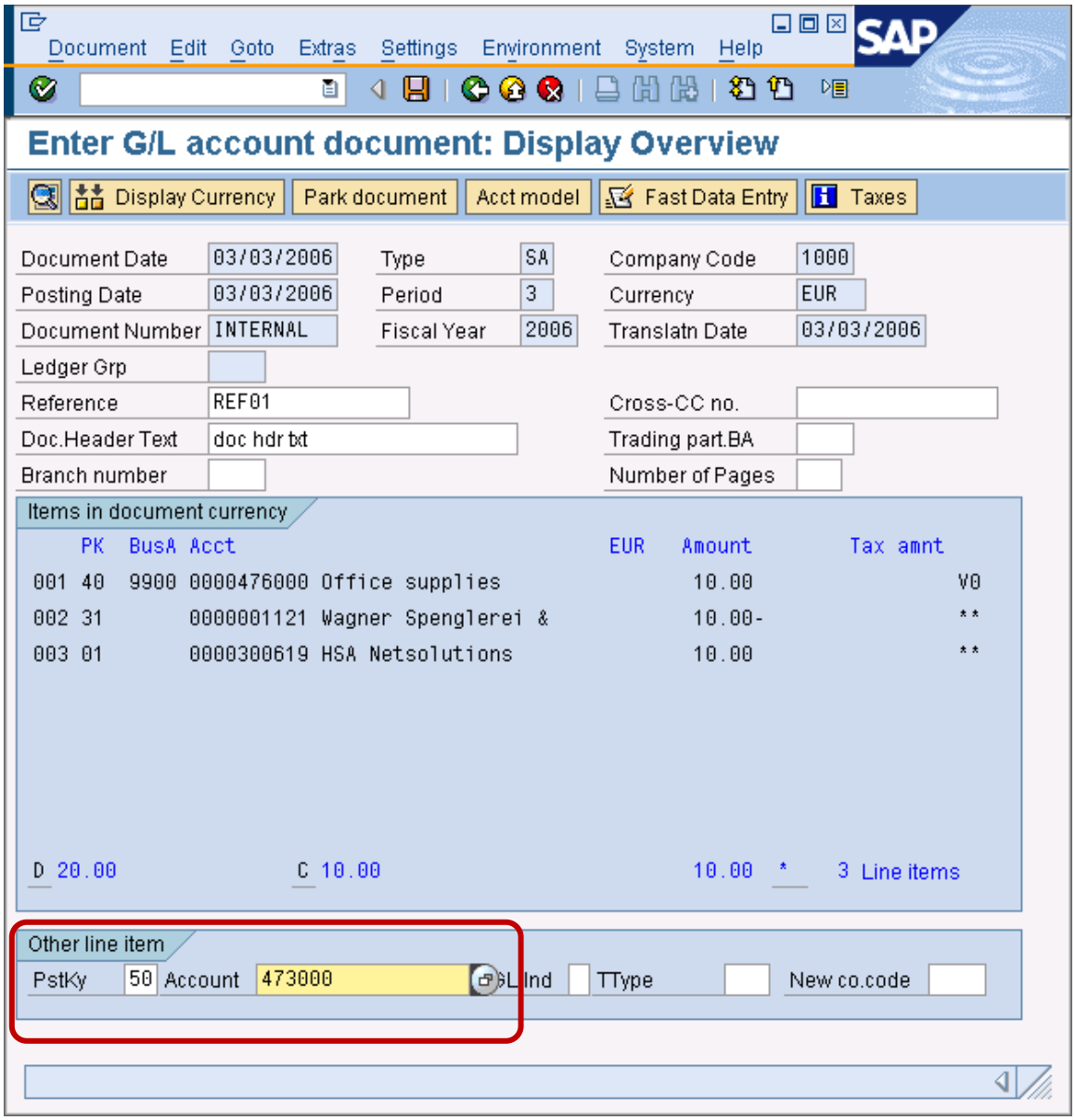


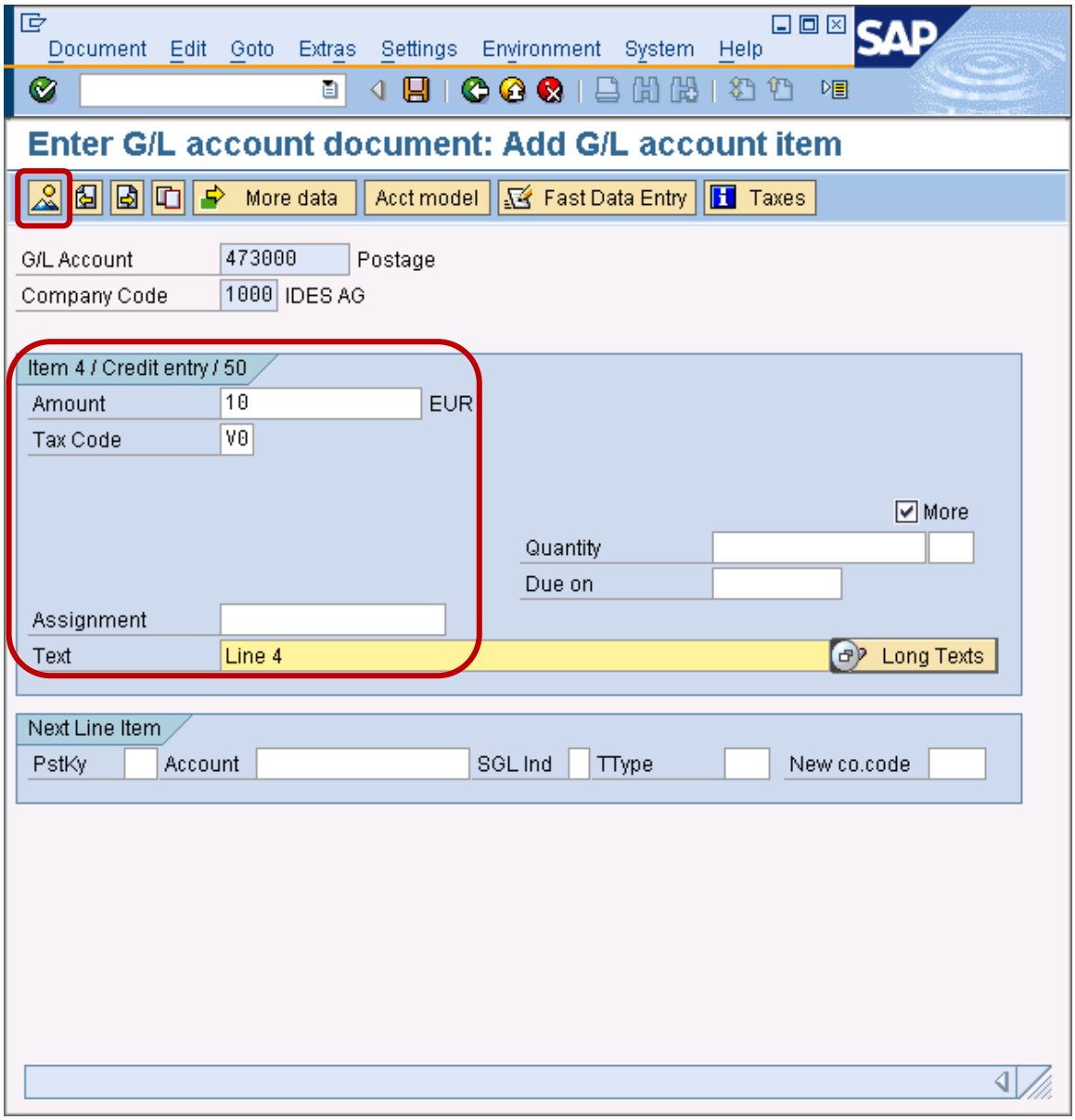
Enter Amount, Tax Code, Text & click on Display Overview.

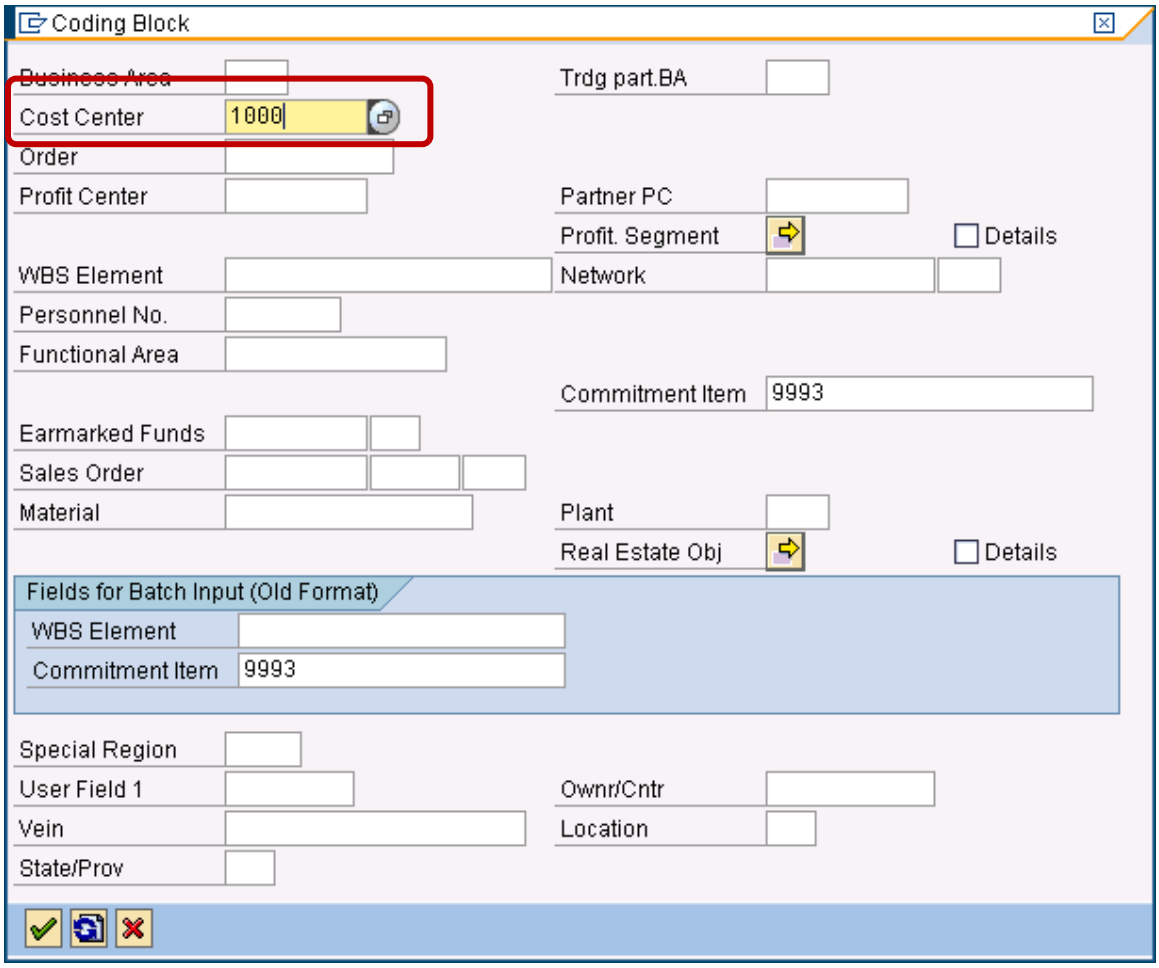


Recording for posting key 50 (exactly similar to posting key 50):

Enter relevant details for posting key as shown in the below 2 screens.

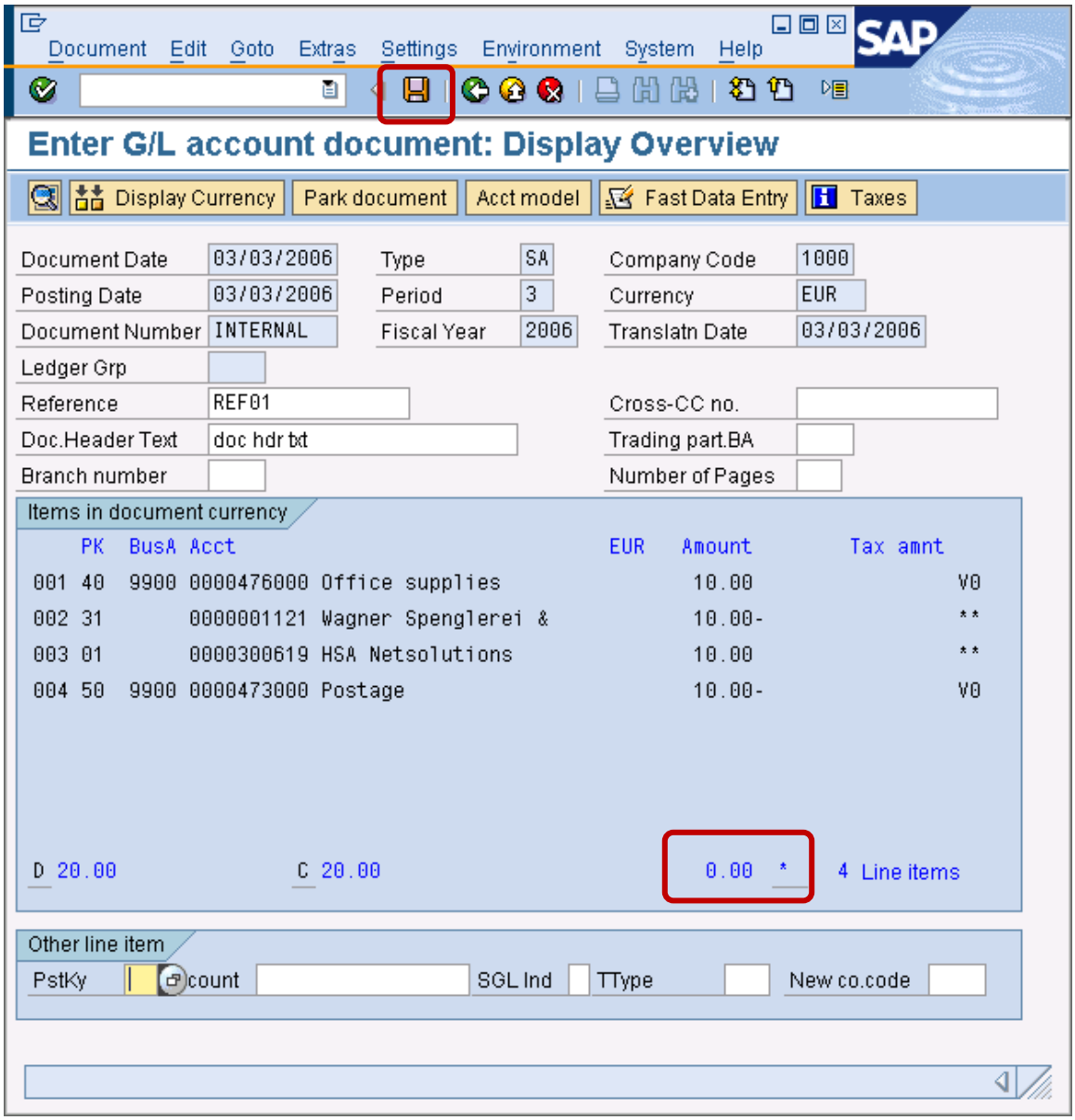



Document Edit Goto Extras Settings Environment System Help
SAP
Enter G/L account document: Add G/L account item
More data
Acct model
Fast Data Entry
Taxes
G/L Account 473000 Postage
Company Code 1000 IDES AG
Item 4 / Credit entry / 50
Amount 10 EUR
Tax Code V0
More
Quantity
Due on
Assignment
Text Line 4
Long Texts
Next Line Item
PstKy
Account
SGL Ind
TType
New co.code

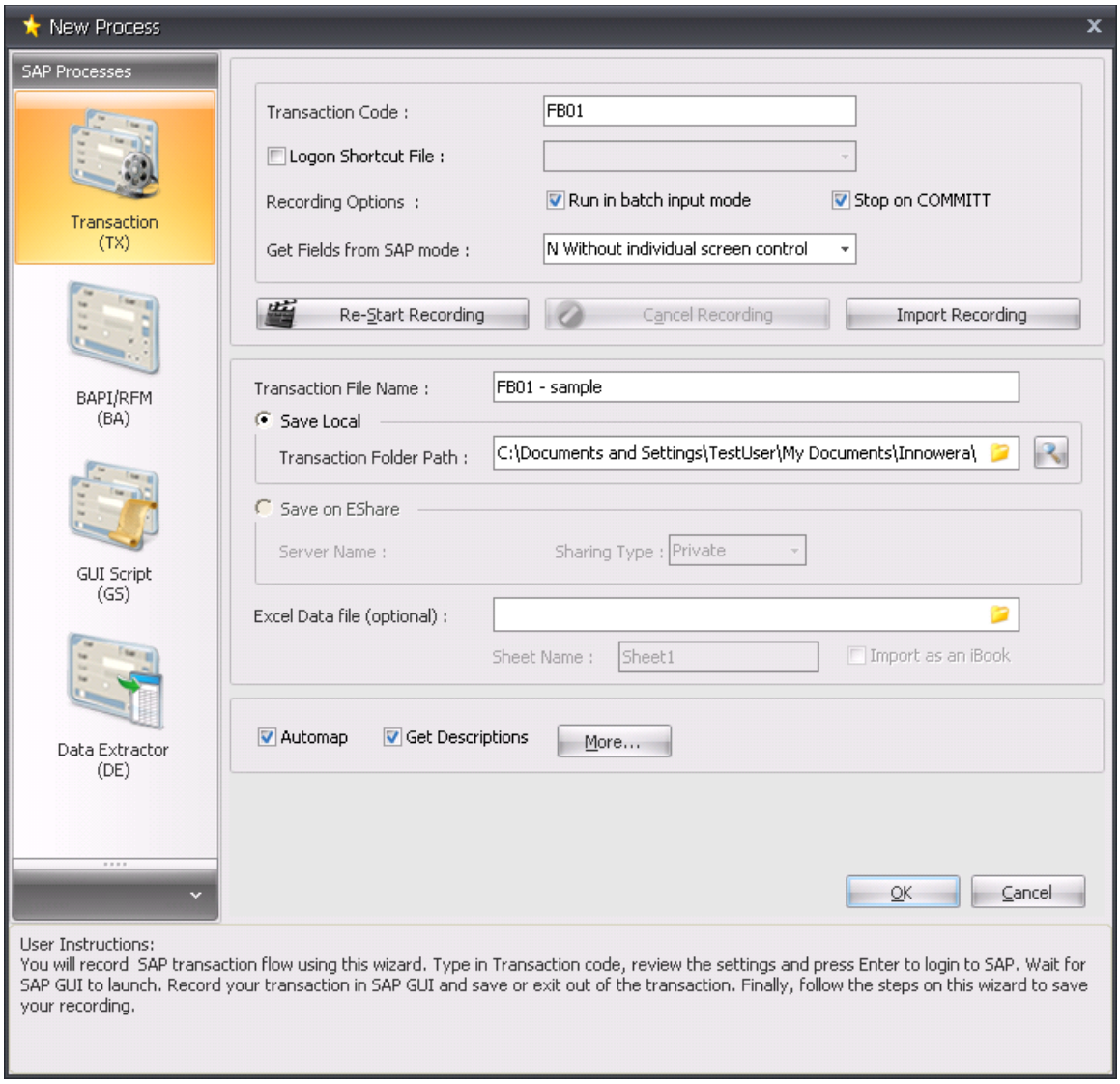

Coding Block
Business Area
Trdg part.BA
Cost Center
1000
Order
Profit Center
Partner PC
Profit. Segment
Details
WBS Element
Network
Personnel No.
Functional Area
Commitment Item
9993
Earmarked Funds
Sales Order
Material
Plant
Real Estate Obj
Details
Fields for Batch Input (Old Format)
WBS Element
Commitment Item
9993
Special Region
User Field 1
Ownr/Cntr
Vein
Location
State/Prov

Once we are done entering the amount & other details hit Save in the Display Overview screen.

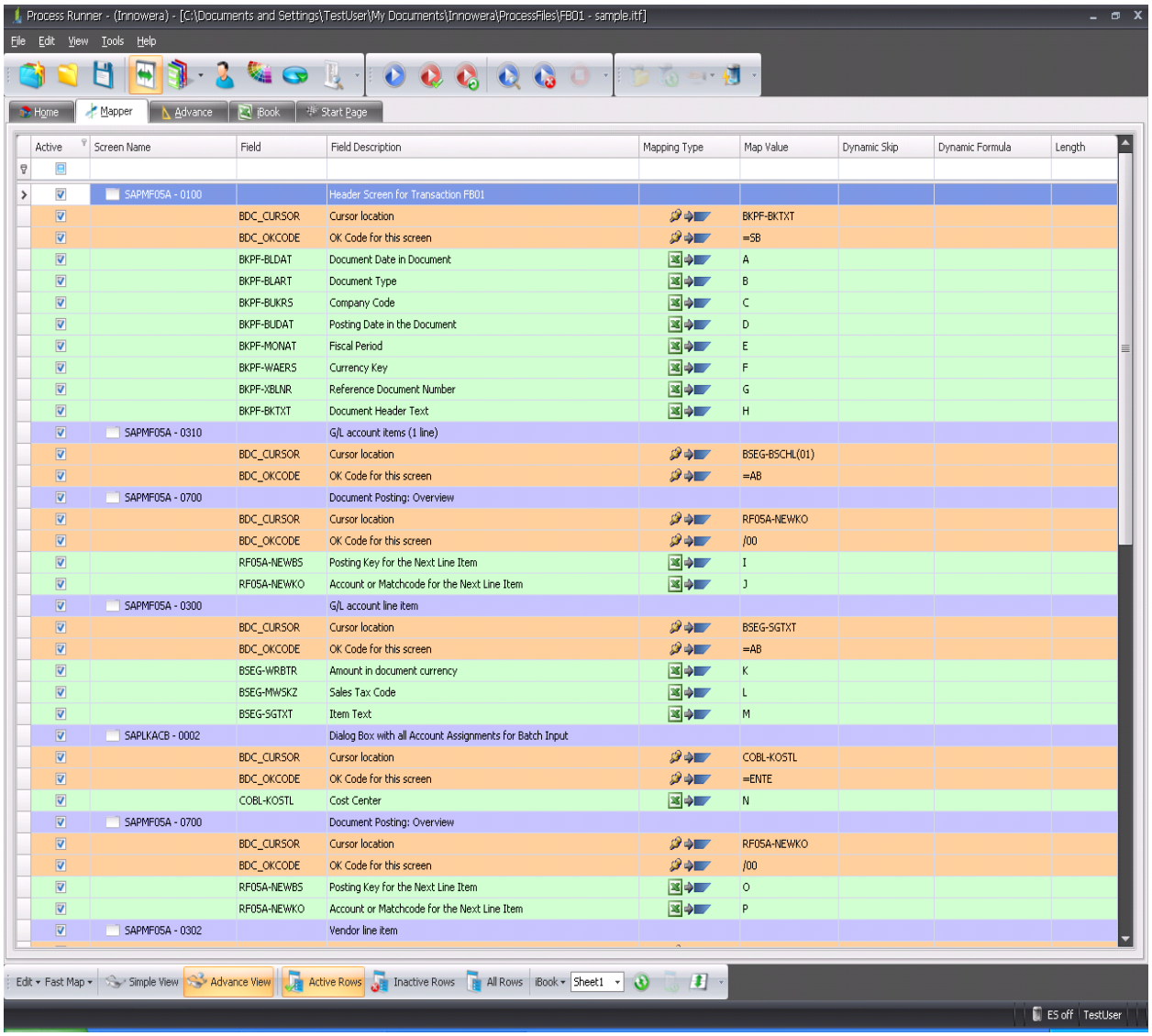
** Note that it will allow you to save only if the document is balanced i.e. the sum of all amounts should total to **0.00** as shown below.



Once you successfully save, assign the transaction file name & click on OK in the New Wizard.

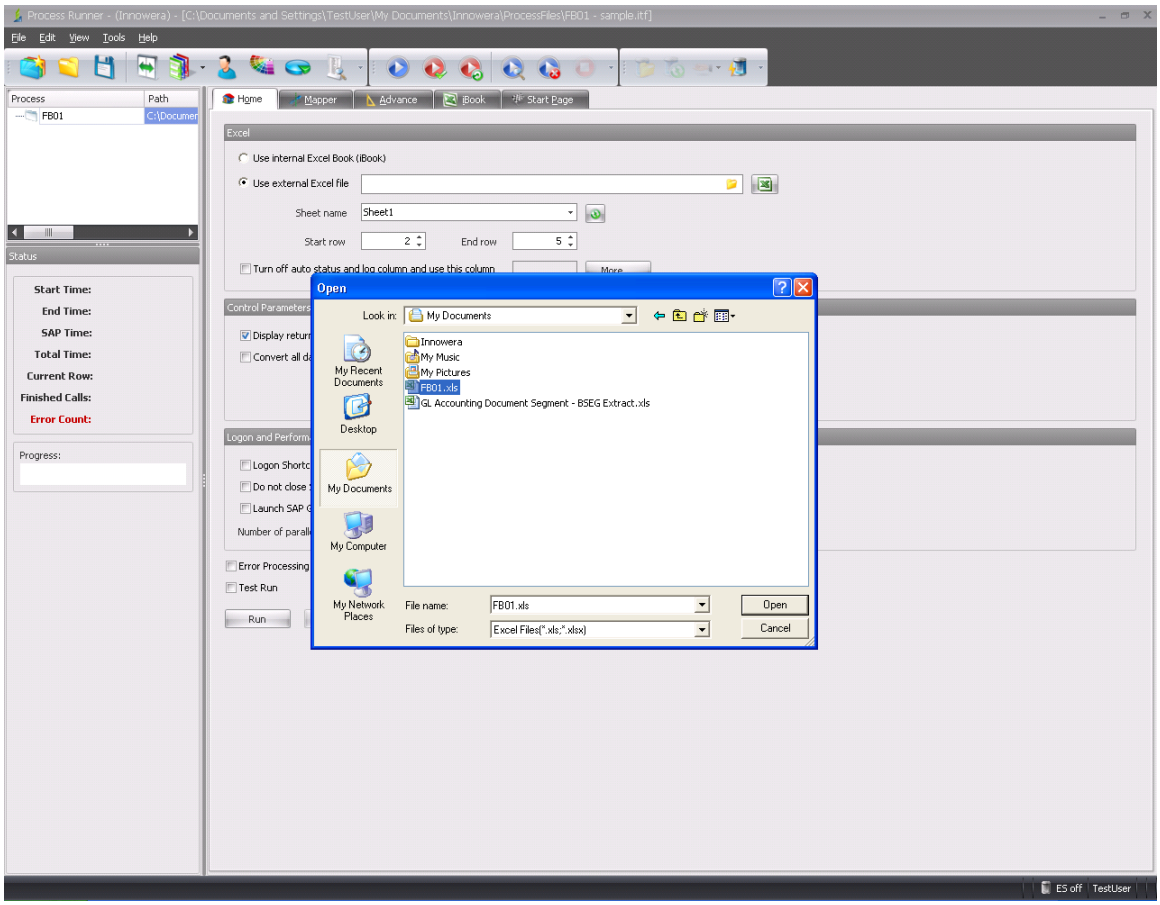


Here’s a look at the mapper after we create the process file.



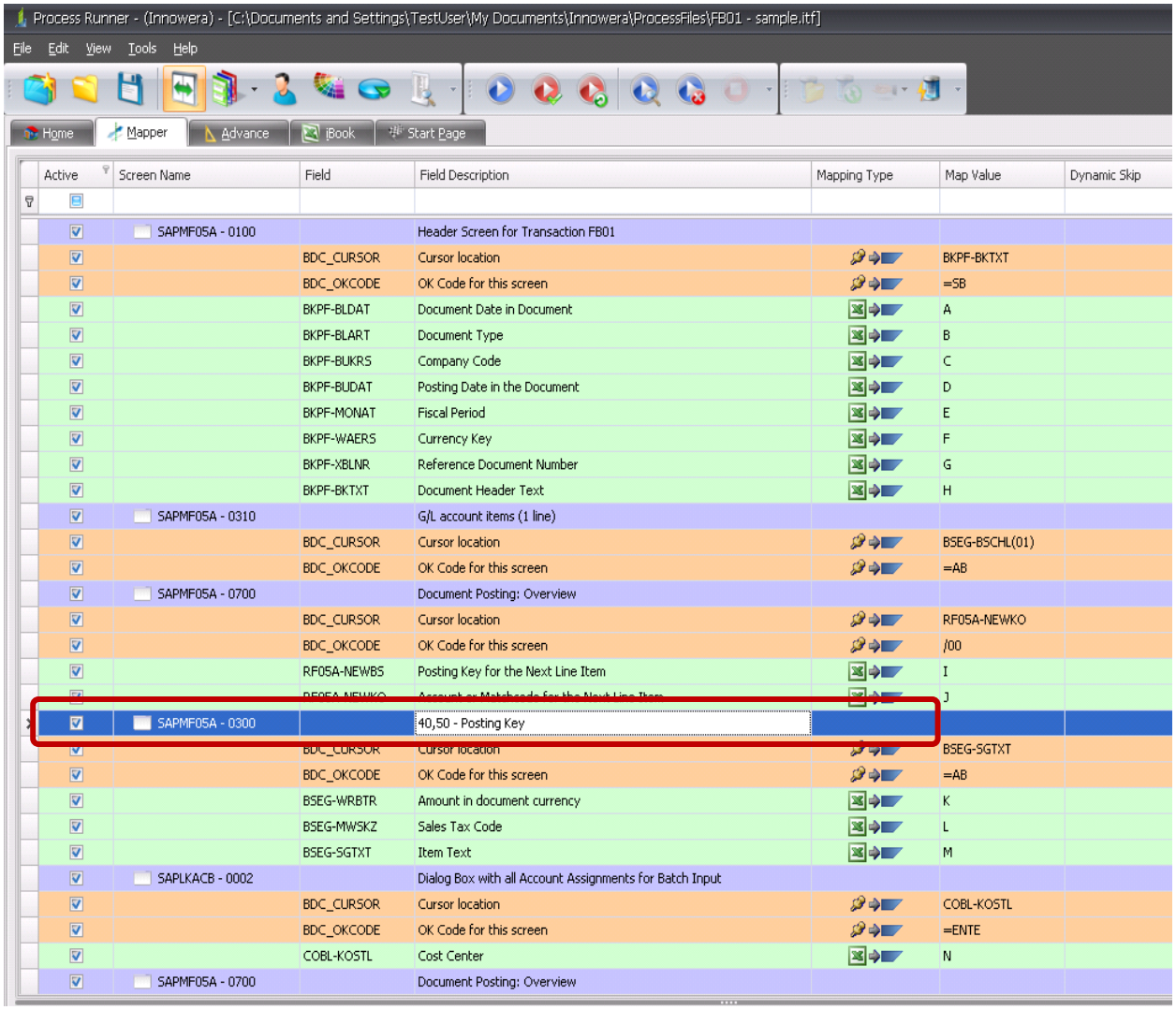
Active	Screen Name	Field	Field Description	Mapping Type	Map Value	Dynamic Skip	Dynamic Formula	Length
☑	SAPMF05A - 0100		Header Screen for Transaction FB01					
☑		BDC_CURSOR	Cursor location		BKPF-BKTXT			
☑		BDC_OKCODE	OK Code for this screen		=SB			
☑		BKPF-BLDAT	Document Date in Document		A			
☑		BKPF-BLART	Document Type		B			
☑		BKPF-BUKRS	Company Code		C			
☑		BKPF-BUDAT	Posting Date in the Document		D			
☑		BKPF-MONAT	Fiscal Period		E			
☑		BKPF-WAERS	Currency Key		F			
☑		BKPF-XBLNR	Reference Document Number		G			
☑		BKPF-BKTXT	Document Header Text		H			
☑	SAPMF05A - 0310		G/L account items (1 line)					
☑		BDC_CURSOR	Cursor location		BSEG-BSCHL(01)			
☑		BDC_OKCODE	OK Code for this screen		=AB			
☑	SAPMF05A - 0700		Document Posting: Overview					
☑		BDC_CURSOR	Cursor location		RF05A-NEWKO			
☑		BDC_OKCODE	OK Code for this screen		/00			
☑		RF05A-NEWBS	Posting Key for the Next Line Item		I			
☑		RF05A-NEWKO	Account or Matchcode for the Next Line Item		J			
☑	SAPMF05A - 0300		G/L account line item					
☑		BDC_CURSOR	Cursor location		BSEG-SGTXT			
☑		BDC_OKCODE	OK Code for this screen		=AB			
☑		BSEG-WRBTR	Amount in document currency		K			
☑		BSEG-MWSKZ	Sales Tax Code		L			
☑		BSEG-SGTXT	Item Text		M			
☑	SAPLKACB - 0002		Dialog Box with all Account Assignments for Batch Input					
☑		BDC_CURSOR	Cursor location		COBL-KOSTL			
☑		BDC_OKCODE	OK Code for this screen		=ENTE			
☑		COBL-KOSTL	Cost Center		N			
☑	SAPMF05A - 0700		Document Posting: Overview					
☑		BDC_CURSOR	Cursor location		RF05A-NEWKO			
☑		BDC_OKCODE	OK Code for this screen		/00			
☑		RF05A-NEWBS	Posting Key for the Next Line Item		O			
☑		RF05A-NEWKO	Account or Matchcode for the Next Line Item		P			
☑	SAPMF05A - 0302		Vendor line item					

Now we will use and select the document file that we referred to in beginning.



2. Mapper Settings & Deactivating repeating fields for inserting loop:

For our convenience we will mark & change the field descriptions of screens, so we know which screen is for which posting key.



Note that recording screens for both 40 and 50 posting keys are similar.

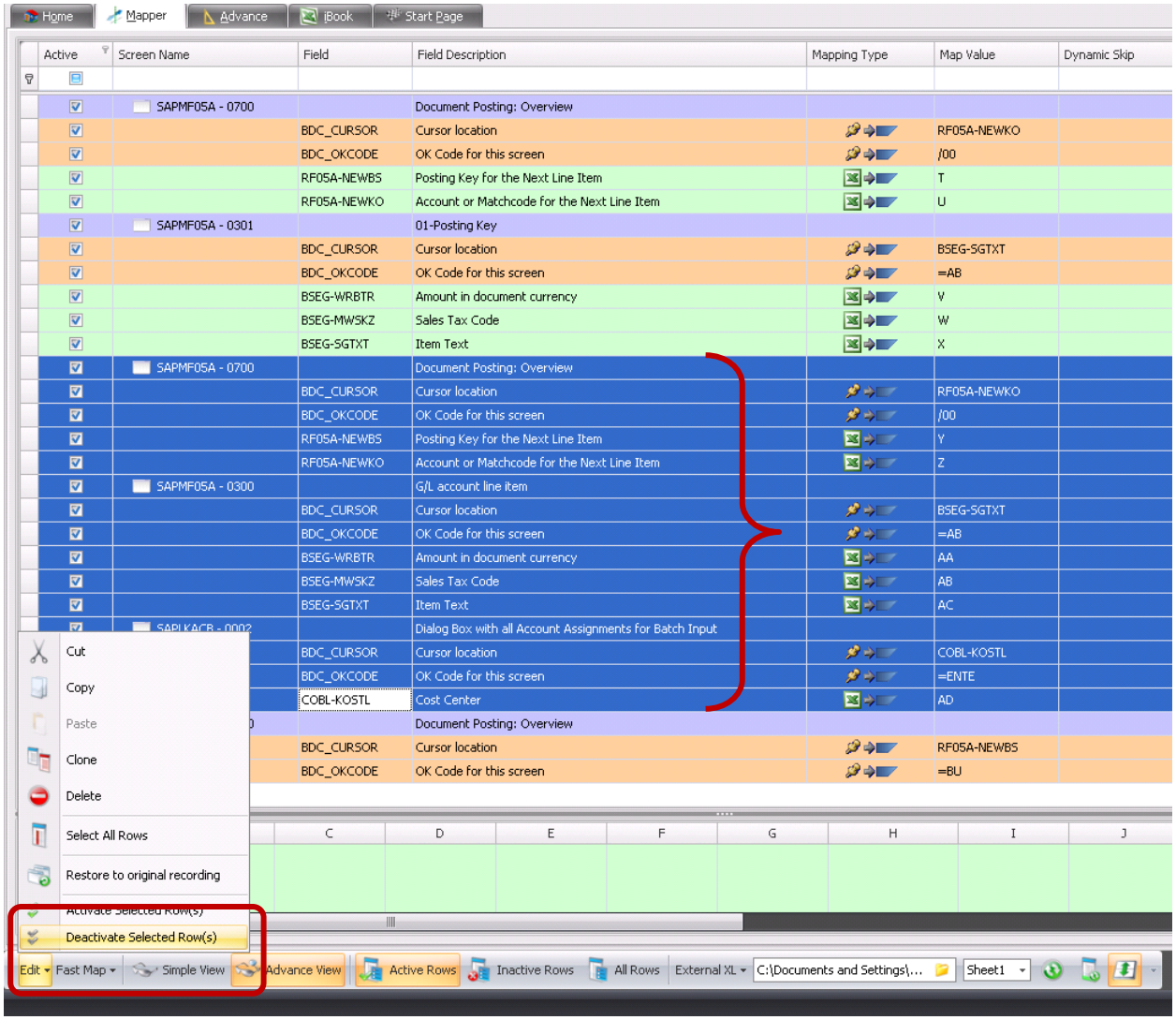
So we deactivate the last screen for posting key 50.

For that select the relevant screens & from the mapper toolbar click on Edit->Deactivate as shown below.

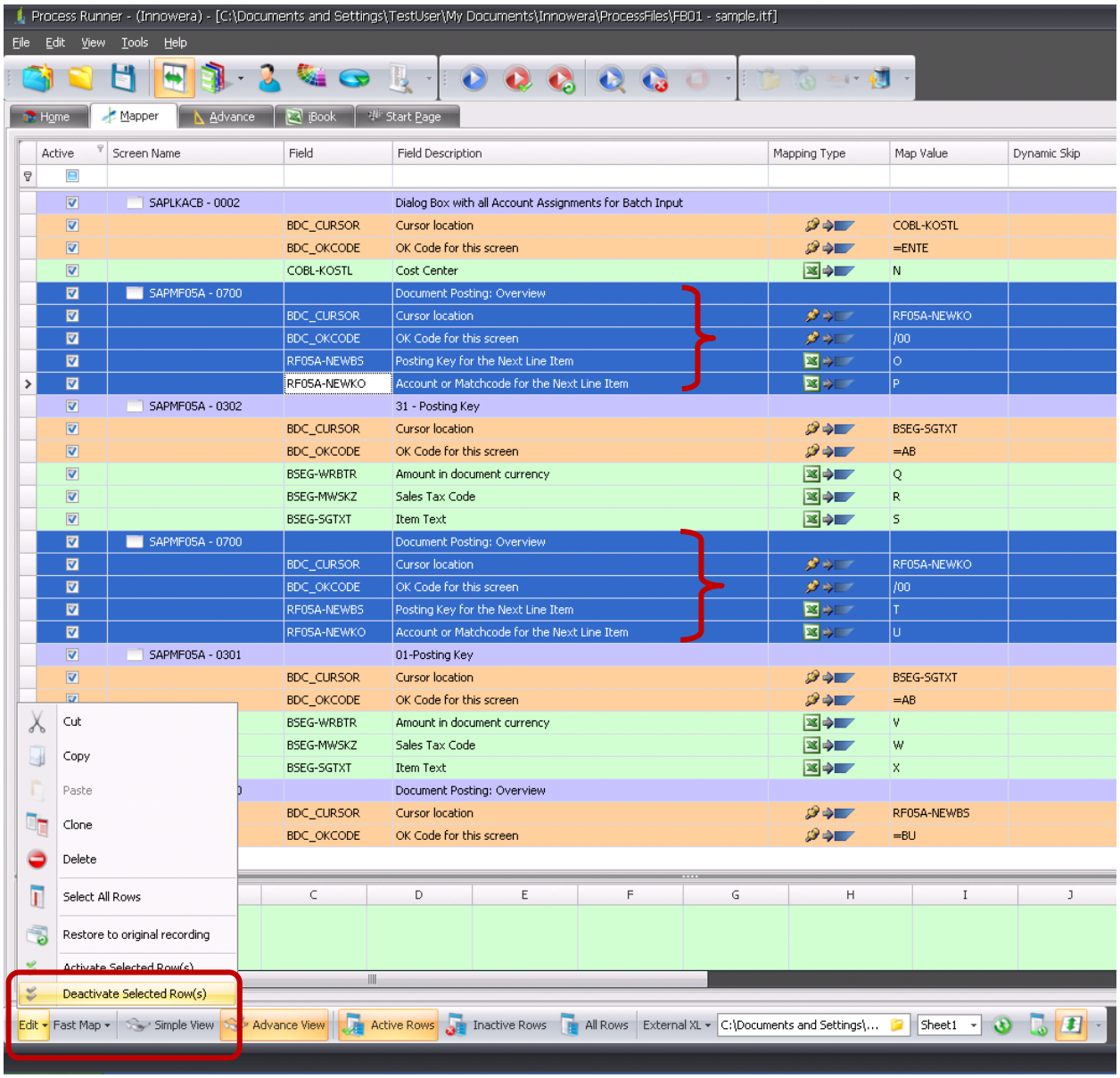
This will deactivate/remove that screen from our recording.

You can get back those fields by going to Advance -> Inactive Rows in mapper toolbar below & selecting those fields & click on Edit -> Activate.

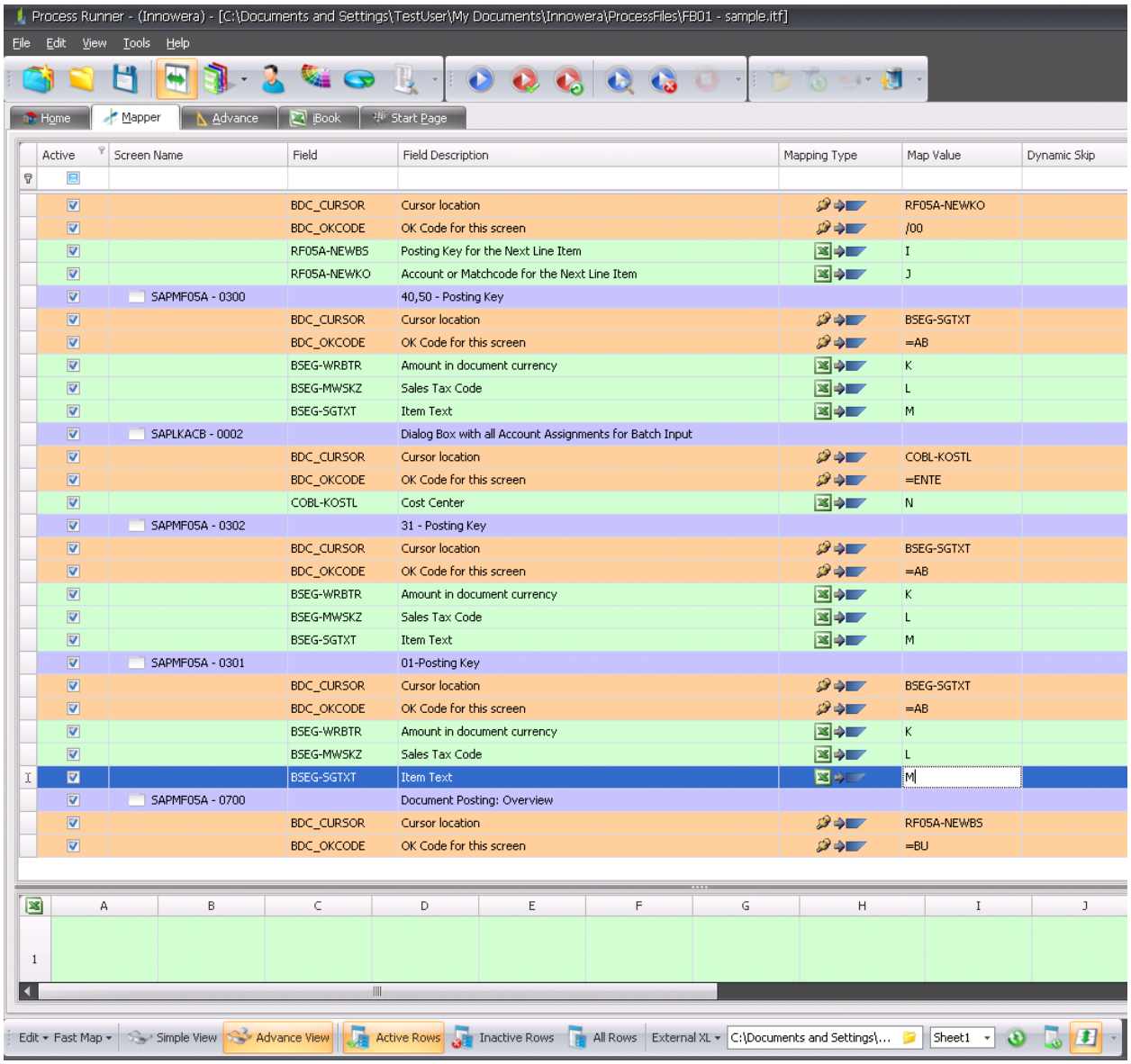
** Anytime you are lost you can revert back to original mapper settings that were after recording by right clicking on any mapper fields & then clicking on **Restore to Original recording**.



Similarly we will remove repetitive screens (Display Overview) accepting posting keys to make our recording precise & to be suitable to be executed in a loop.

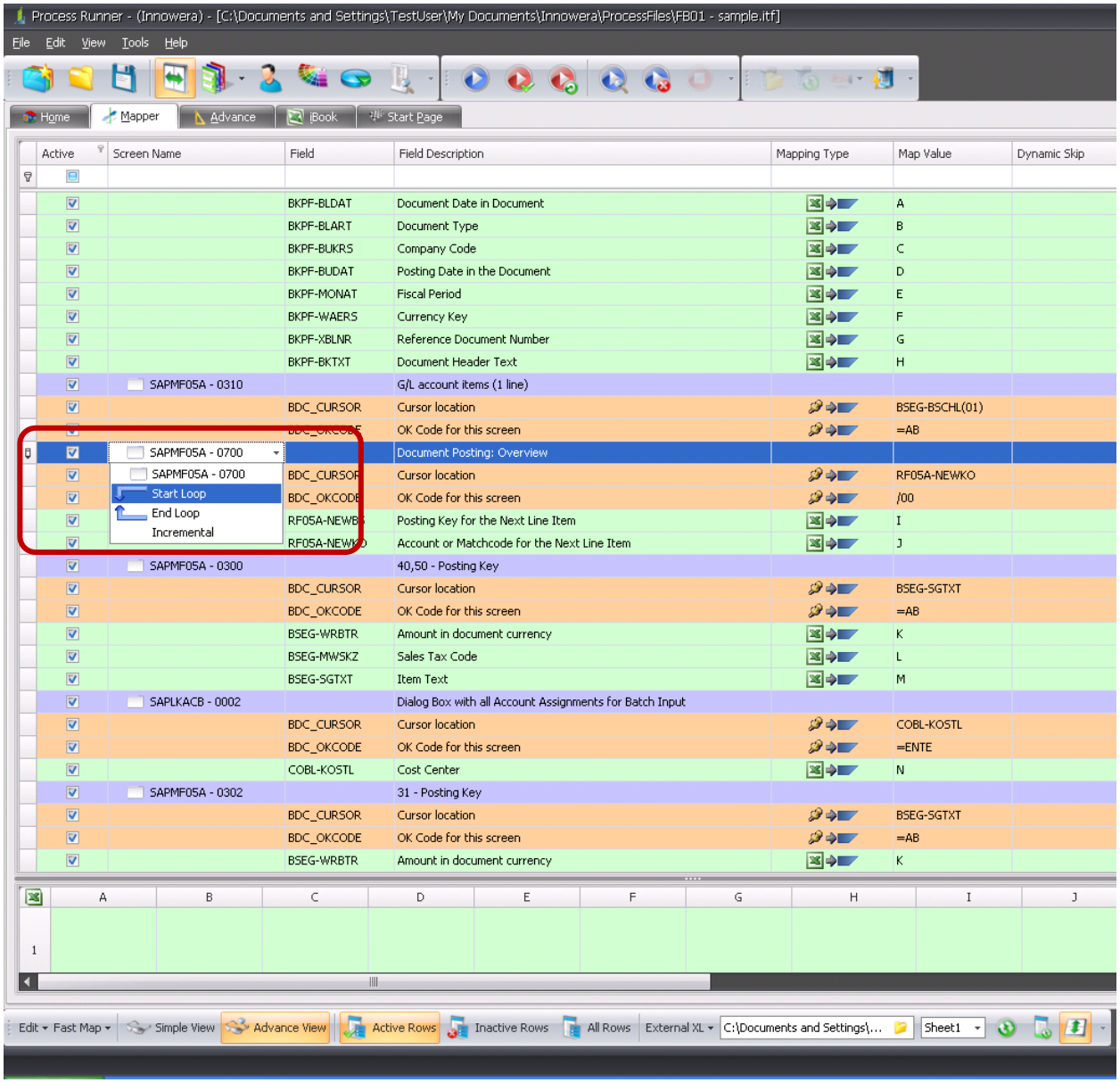


Edit & verify all the amount, sales tax, item text and Cost center fields are mapped correctly as per our document data file.



Inserting Loop:

Insert loop at the screen where we insert posting key, Display overview screen in our case. In advance views (from mapper toolbar) click the drop down in screen name & select start loop as shown below.



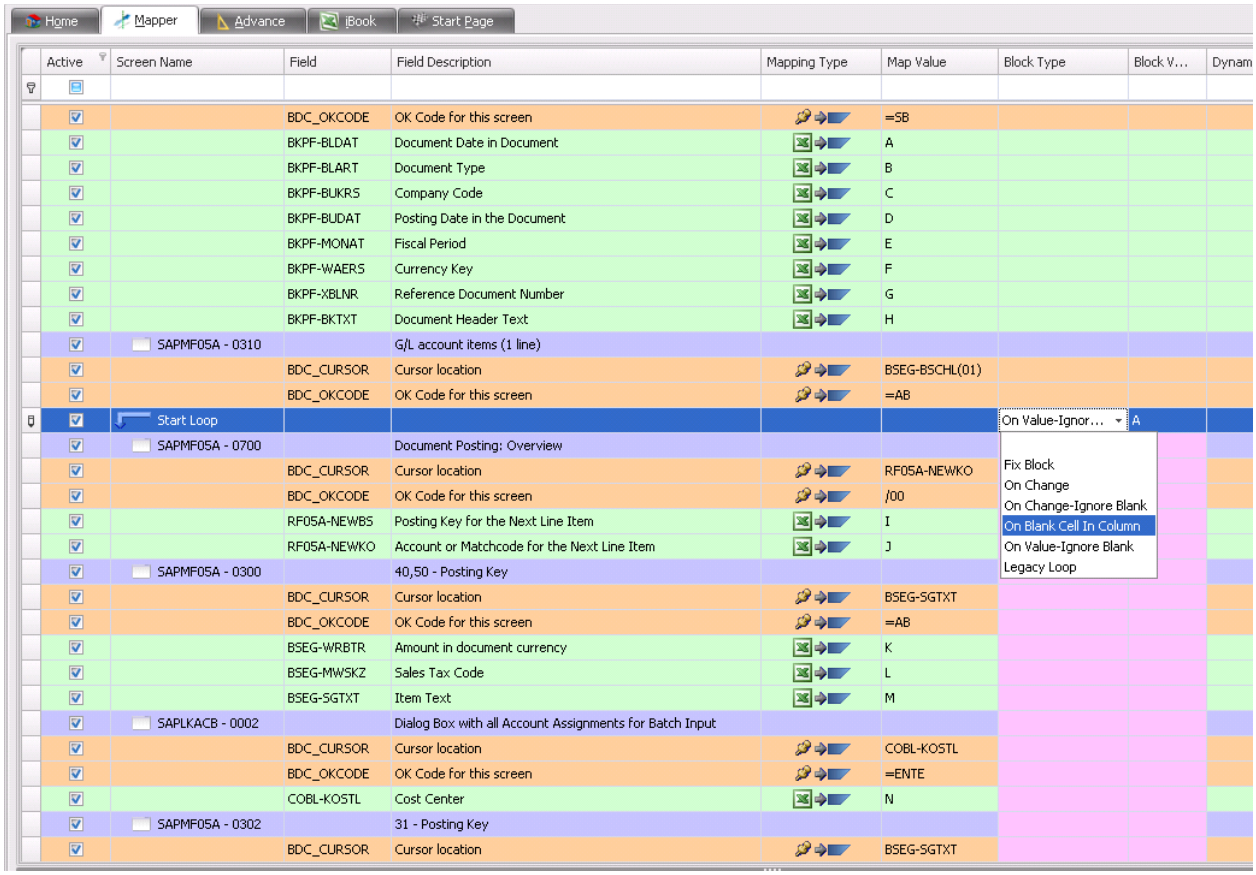
This will automatically insert an End-Loop at the end before Save.

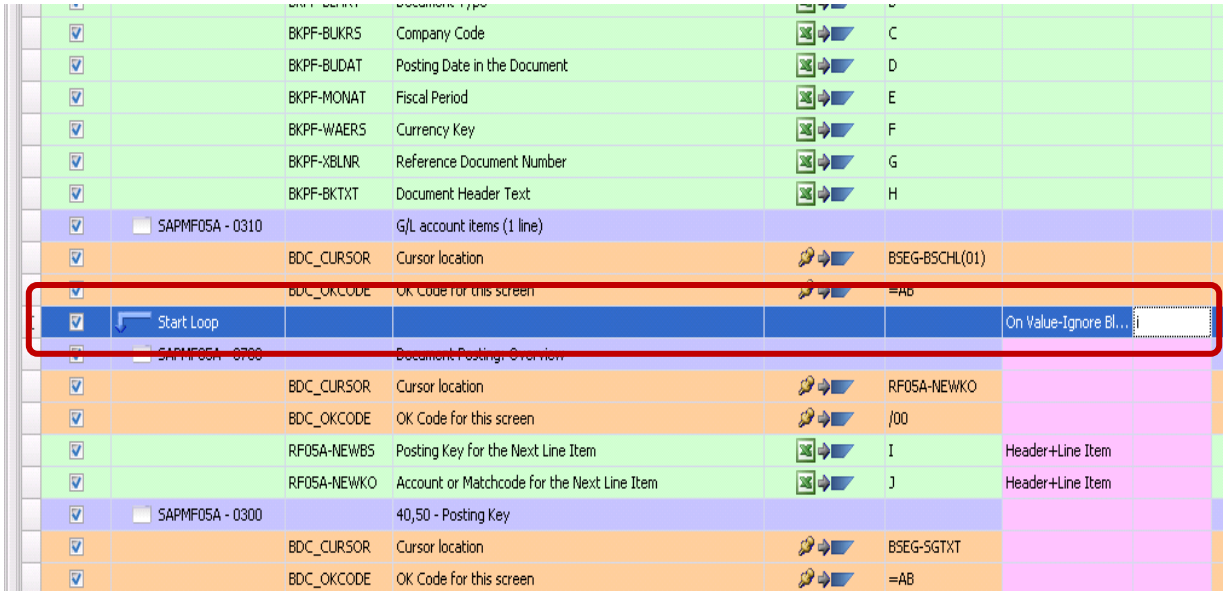
Referring to document data file we have two batch of document to be posted. We can differentiate it based on one blank space between each document.

So we will need to execute the loop & post one batch at a time.

In order to do that, in Start loop for Block type we will select On Blank cell in Column I as shown in below 2 screens.

Therefore whenever there is a blank in column I (posting key) it will assume it's a new batch.





☑		BKPF-BUKRS	Company Code		C		
☑		BKPF-BUDAT	Posting Date in the Document		D		
☑		BKPF-MONAT	Fiscal Period		E		
☑		BKPF-WAERS	Currency Key		F		
☑		BKPF-XBLNR	Reference Document Number		G		
☑		BKPF-BKTXT	Document Header Text		H		
☑	SAPMF05A - 0310		G/L account items (1 line)				
☑		BDC_CURSOR	Cursor location		BSEG-BSCHL(01)		
☑		BDC_OKCODE	OK Code for this screen		=AB		
☑	Start Loop					On Value-Ignore Bl...	i
☑	SAPMF05A - 0700		Document Posting: Overview				
☑		BDC_CURSOR	Cursor location		RF05A-NEWKO		
☑		BDC_OKCODE	OK Code for this screen		/00		
☑		RF05A-NEWBS	Posting Key for the Next Line Item		I	Header+Line Item	
☑		RF05A-NEWKO	Account or Matchcode for the Next Line Item		J	Header+Line Item	
☑	SAPMF05A - 0300		40,50 - Posting Key				
☑		BDC_CURSOR	Cursor location		BSEG-SGTXT		
☑		BDC_OKCODE	OK Code for this screen		=AB		

3. Custom DS to suppress screens based on a particular posting key.

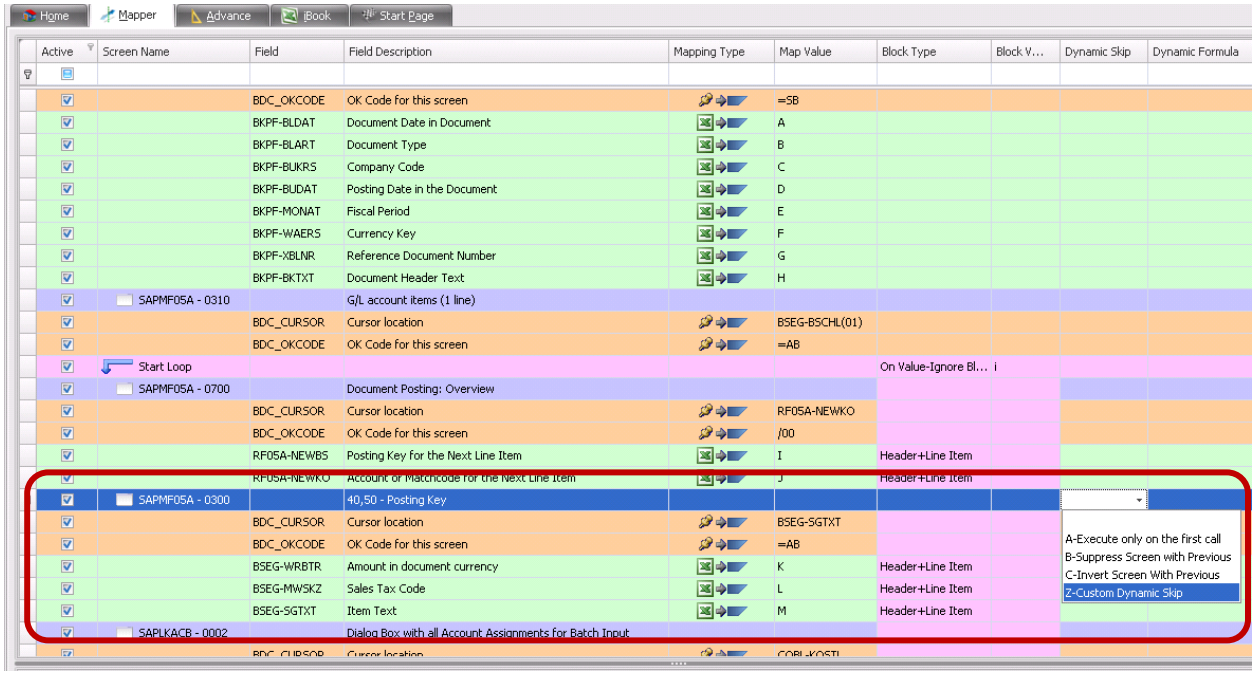
Based on posting key only particular screens need to be executed at any given time, rest all screens need to be suppressed in order for our looping to be effective.

So we will enable only those screens required for a posting key & suppress others.

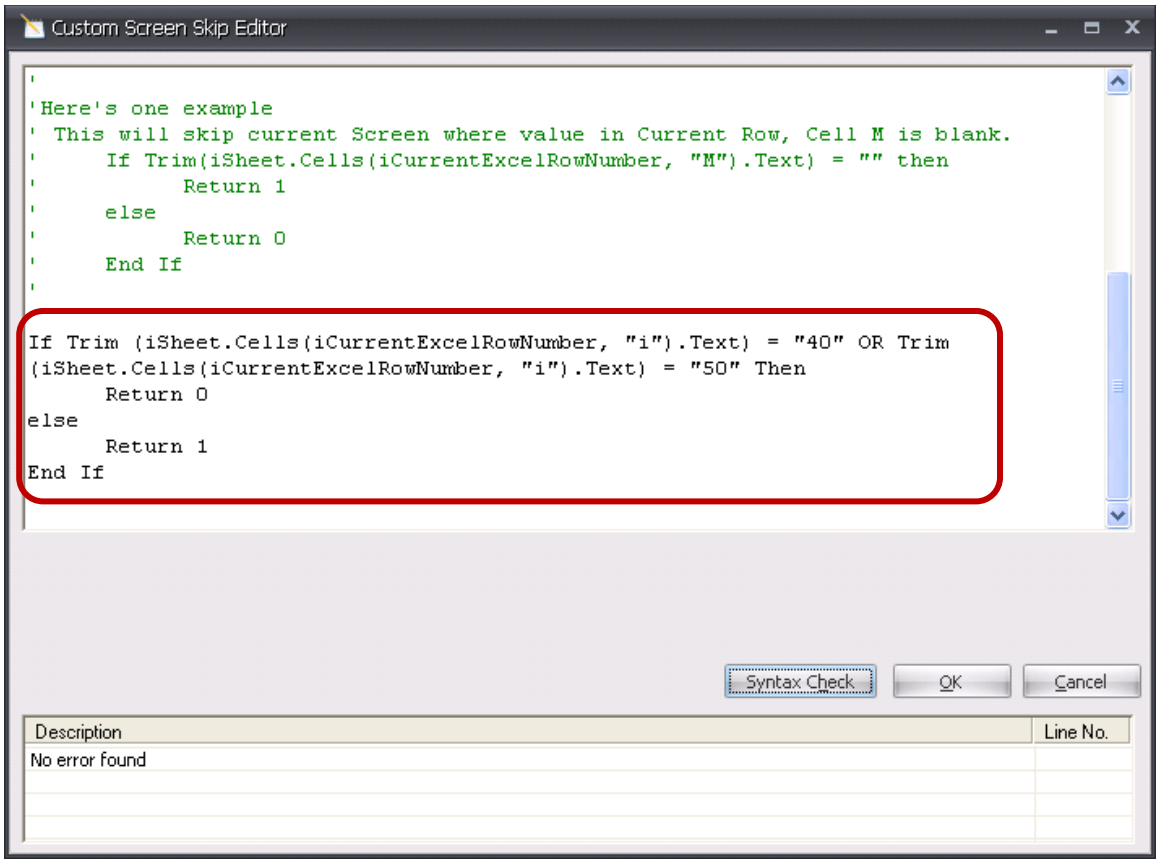
For this we will use Custom DS on Screen feature of Process Runner. Users can enter VB.Net code in custom DS which will execute or suppress the screen before sending to SAP.

Custom DS for screen 40, 50:

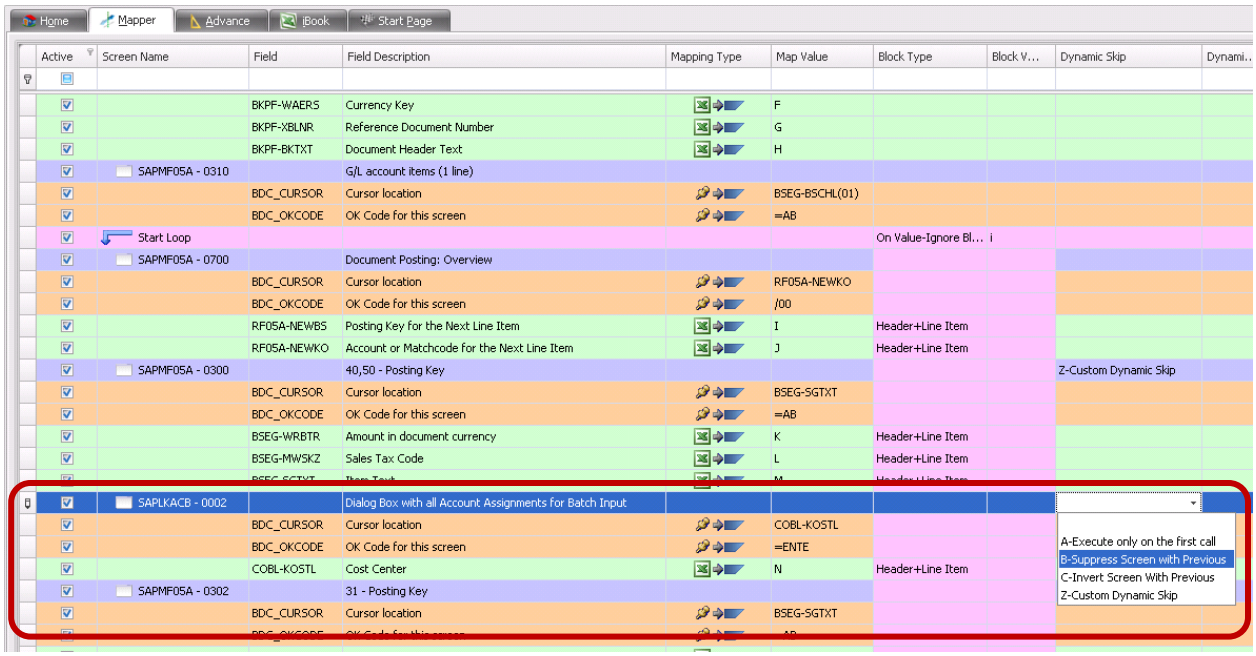
Select the screen for posting key 40, 50 & from the Dynamic Skip column select Custom Dynamic Skip as shown below.



In the Custom Screen Skip Editor that opens enter the code to execute (Return 0) that screen only when key posting keys 40 or 50 in column “i” are encountered else suppress (Return 1) that screen.

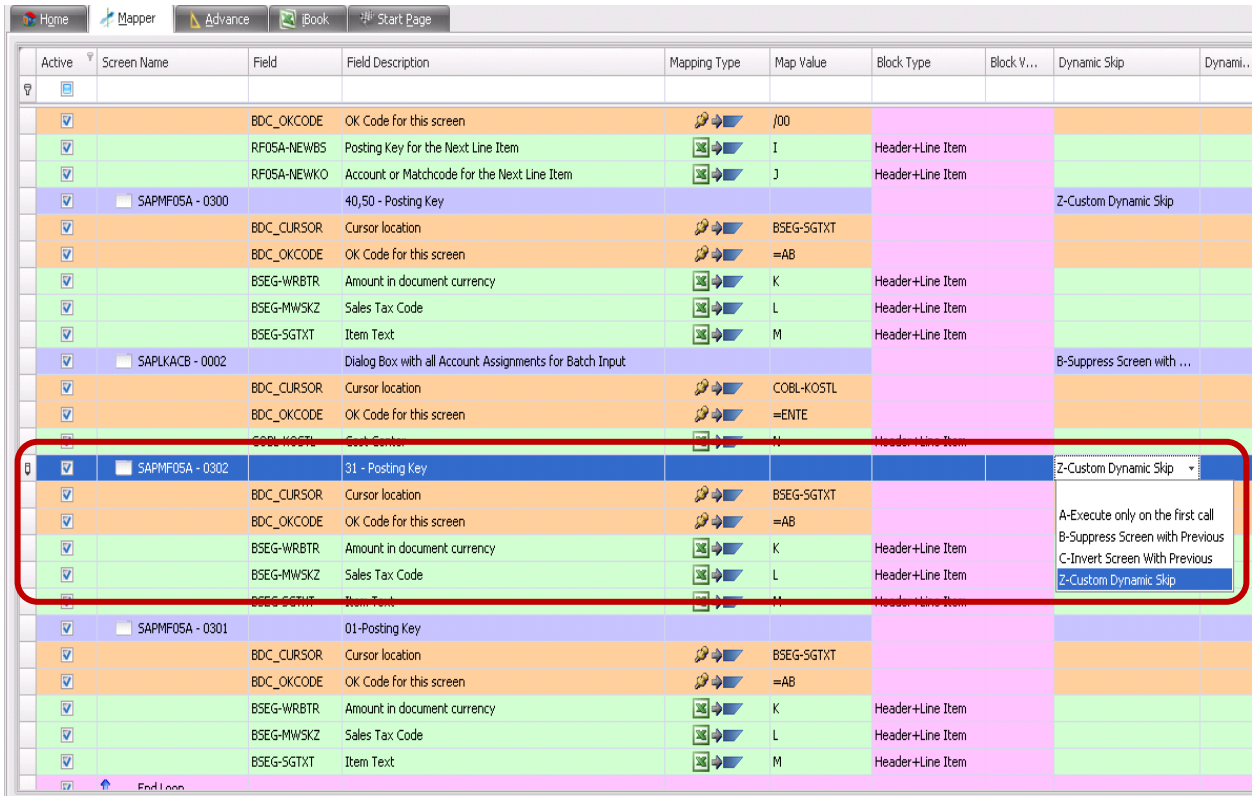


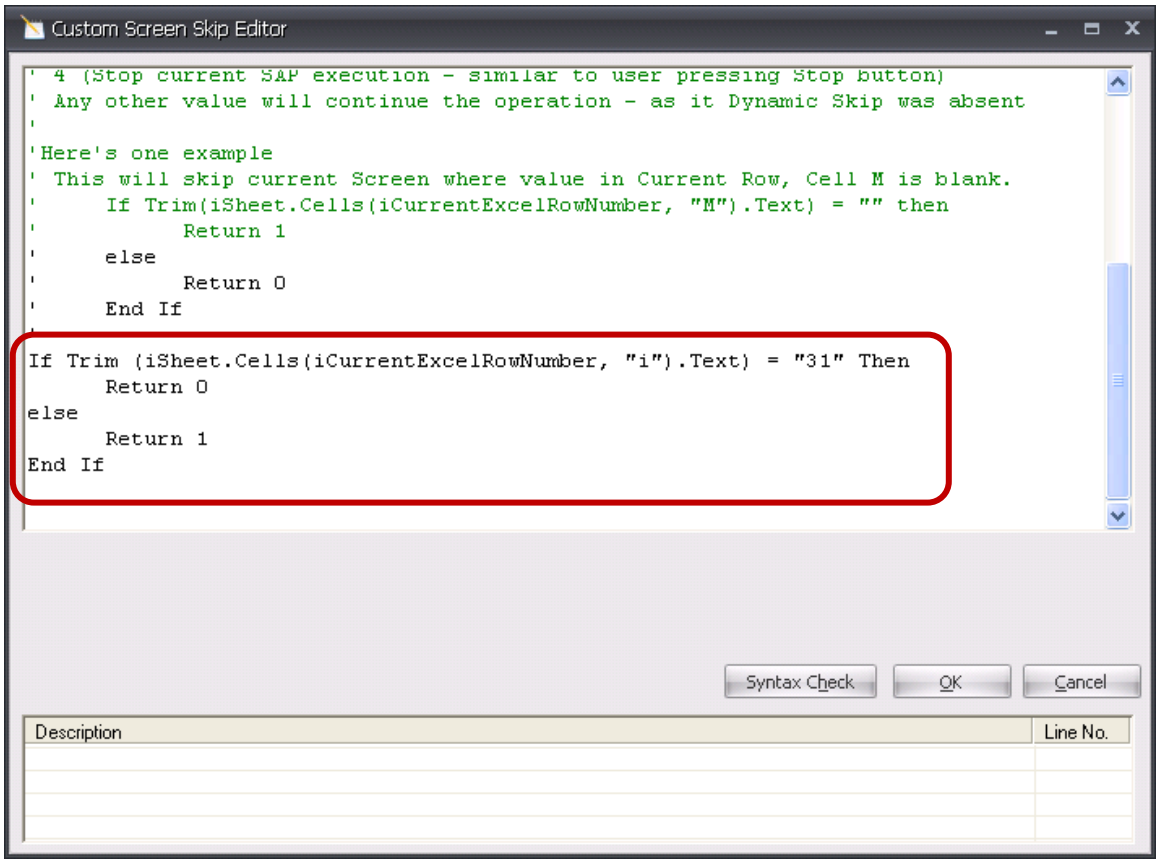
As the screen below it is also required (remember the additional screen asking for cost center), we will select “Suppress screen with previous”. This will ensure that this screen is also suppressed with the previous one.



Custom DS for screen 31:

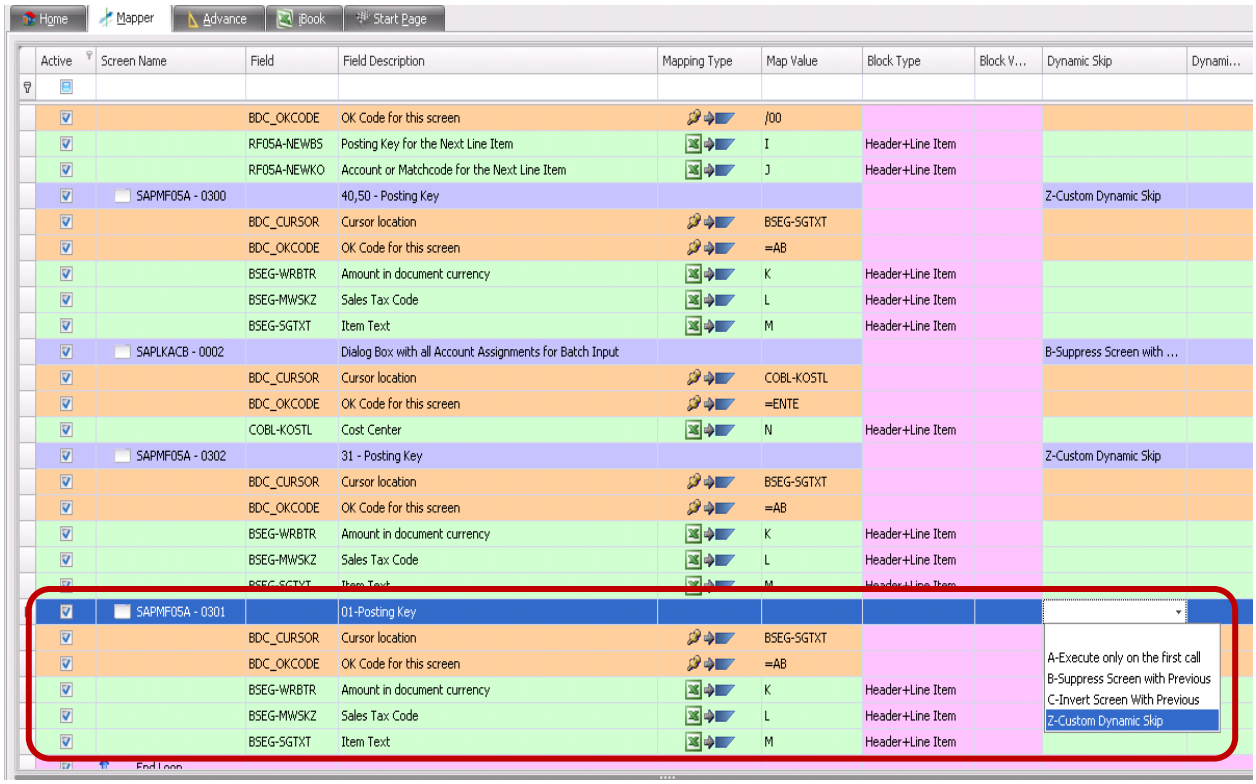
Similar to what we did for posting keys 40-50, we will suppress the screen for posting key 31 as shown below in 2 screens.

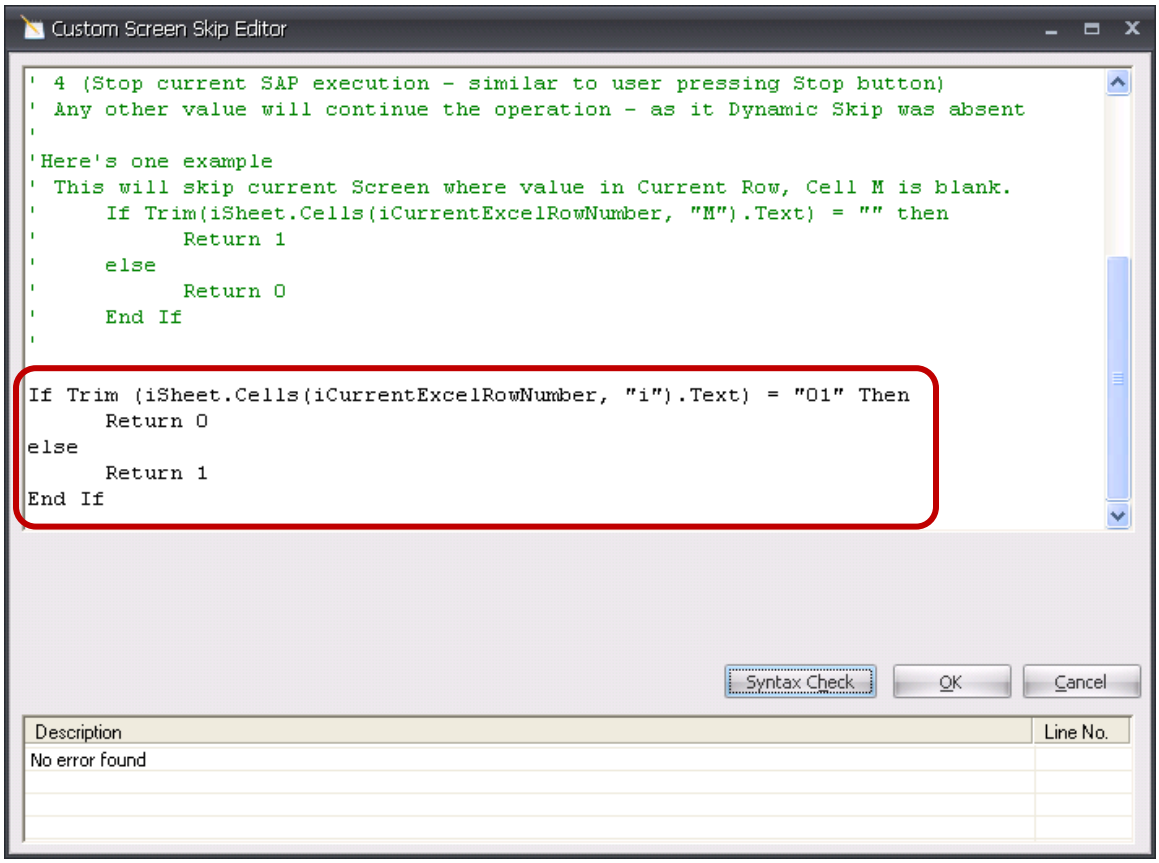



Custom Screen Skip Editor
' 4 (Stop current SAP execution - similar to user pressing Stop button)
' Any other value will continue the operation - as it Dynamic Skip was absent
'
'Here's one example
' This will skip current Screen where value in Current Row, Cell M is blank.
' If Trim(iSheet.Cells(iCurrentExcelRowNumber, "M").Text) = "" then
' Return 1
' else
' Return 0
' End If
'
If Trim (iSheet.Cells(iCurrentExcelRowNumber, "i").Text) = "31" Then
Return 0
else
Return 1
End If
Syntax Check
OK
Cancel
Description
Line No.

Custom DS for screen 01:

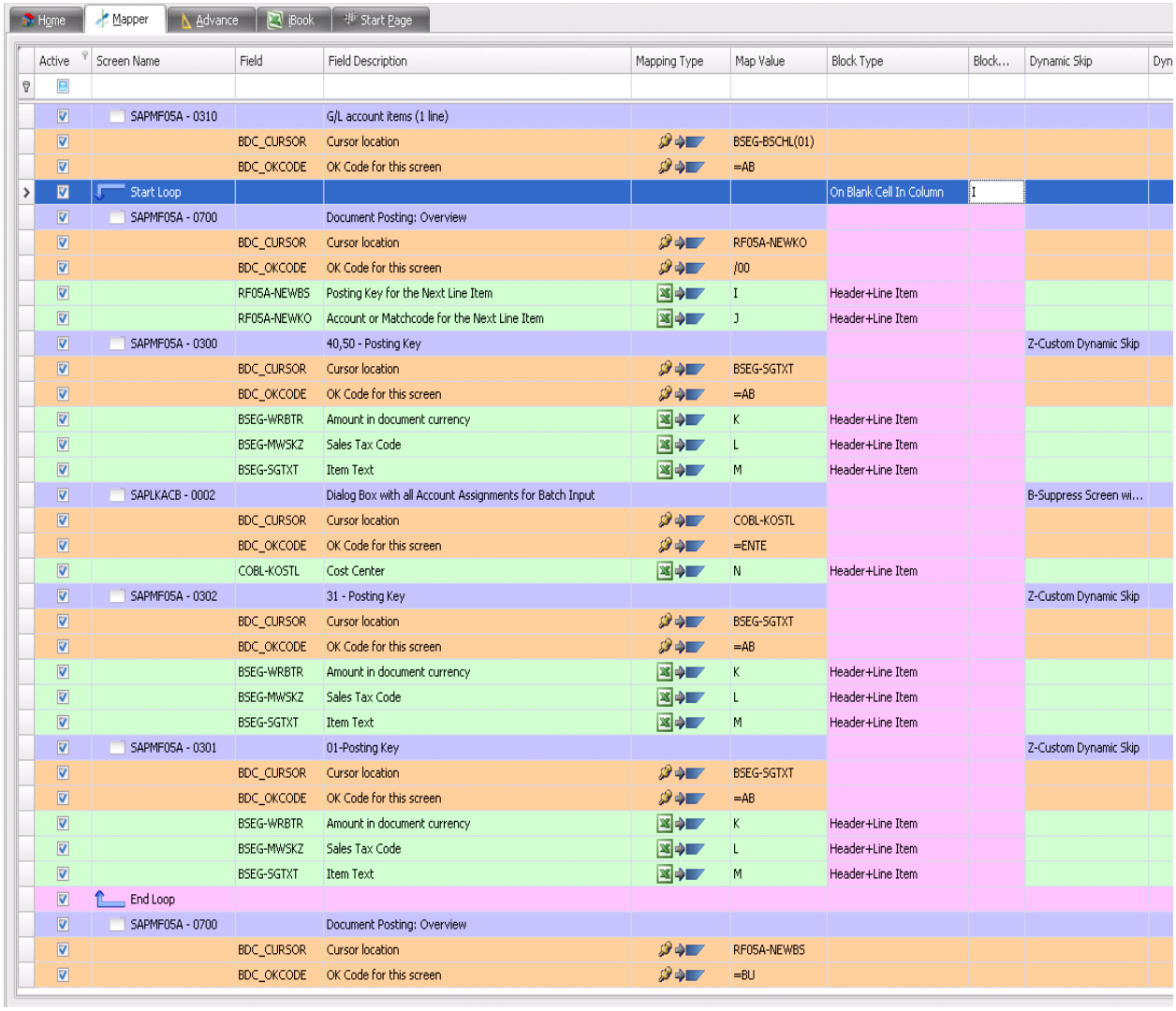
Similar to what we did for posting key 31, we will suppress the screen for posting key 01 as shown below in 2 screens.




Custom Screen Skip Editor
' 4 (Stop current SAP execution - similar to user pressing Stop button)
' Any other value will continue the operation - as it Dynamic Skip was absent
'
'Here's one example
' This will skip current Screen where value in Current Row, Cell M is blank.
' If Trim(iSheet.Cells(iCurrentExcelRowNumber, "M").Text) = "" then
' Return 1
' else
' Return 0
' End If
'
If Trim (iSheet.Cells(iCurrentExcelRowNumber, "i").Text) = "01" Then
Return 0
else
Return 1
End If
Syntax Check
OK
Cancel
Description
Line No.
No error found

Final Mapper settings:

This is how the mapper would look finally with all the loops & Custom DS on screens.

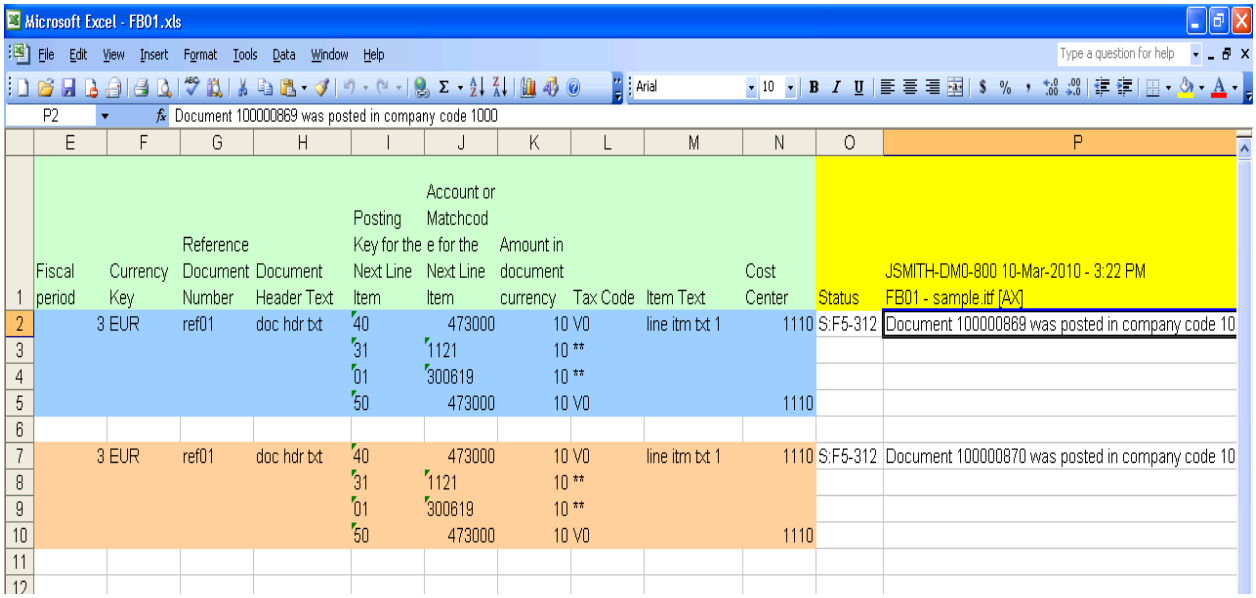


Home | Mapper | Advance | iBook | Start Page

Active	Screen Name	Field	Field Description	Mapping Type	Map Value	Block Type	Block...	Dynamic Skip	Dyn
☑	SAPMF05A - 0310		G/L account items (1 line)						
☑		BDC_CURSOR	Cursor location		BSEG-BSCHL(01)				
☑		BDC_OKCODE	OK Code for this screen		=AB				
☑	Start Loop					On Blank Cell In Column	I		
☑	SAPMF05A - 0700		Document Posting: Overview						
☑		BDC_CURSOR	Cursor location		RF05A-NEWKO				
☑		BDC_OKCODE	OK Code for this screen		/00				
☑		RF05A-NEWBS	Posting Key for the Next Line Item		I	Header+Line Item			
☑		RF05A-NEWKO	Account or Matchcode for the Next Line Item		J	Header+Line Item			
☑	SAPMF05A - 0300		40,50 - Posting Key					Z-Custom Dynamic Skip	
☑		BDC_CURSOR	Cursor location		BSEG-SGTXT				
☑		BDC_OKCODE	OK Code for this screen		=AB				
☑		BSEG-WRBTR	Amount in document currency		K	Header+Line Item			
☑		BSEG-MWSKZ	Sales Tax Code		L	Header+Line Item			
☑		BSEG-SGTXT	Item Text		M	Header+Line Item			
☑	SAPLKACB - 0002		Dialog Box with all Account Assignments for Batch Input					B-Suppress Screen wi...	
☑		BDC_CURSOR	Cursor location		COBL-KOSTL				
☑		BDC_OKCODE	OK Code for this screen		=ENTE				
☑		COBL-KOSTL	Cost Center		N	Header+Line Item			
☑	SAPMF05A - 0302		31 - Posting Key					Z-Custom Dynamic Skip	
☑		BDC_CURSOR	Cursor location		BSEG-SGTXT				
☑		BDC_OKCODE	OK Code for this screen		=AB				
☑		BSEG-WRBTR	Amount in document currency		K	Header+Line Item			
☑		BSEG-MWSKZ	Sales Tax Code		L	Header+Line Item			
☑		BSEG-SGTXT	Item Text		M	Header+Line Item			
☑	SAPMF05A - 0301		01-Posting Key					Z-Custom Dynamic Skip	
☑		BDC_CURSOR	Cursor location		BSEG-SGTXT				
☑		BDC_OKCODE	OK Code for this screen		=AB				
☑		BSEG-WRBTR	Amount in document currency		K	Header+Line Item			
☑		BSEG-MWSKZ	Sales Tax Code		L	Header+Line Item			
☑		BSEG-SGTXT	Item Text		M	Header+Line Item			
☑	End Loop								
☑	SAPMF05A - 0700		Document Posting: Overview						
☑		BDC_CURSOR	Cursor location		RF05A-NEWBS				
☑		BDC_OKCODE	OK Code for this screen		=BU				

4. Run and Validation

Click on Run & you can see the result in Status column that the documents are successfully posted.

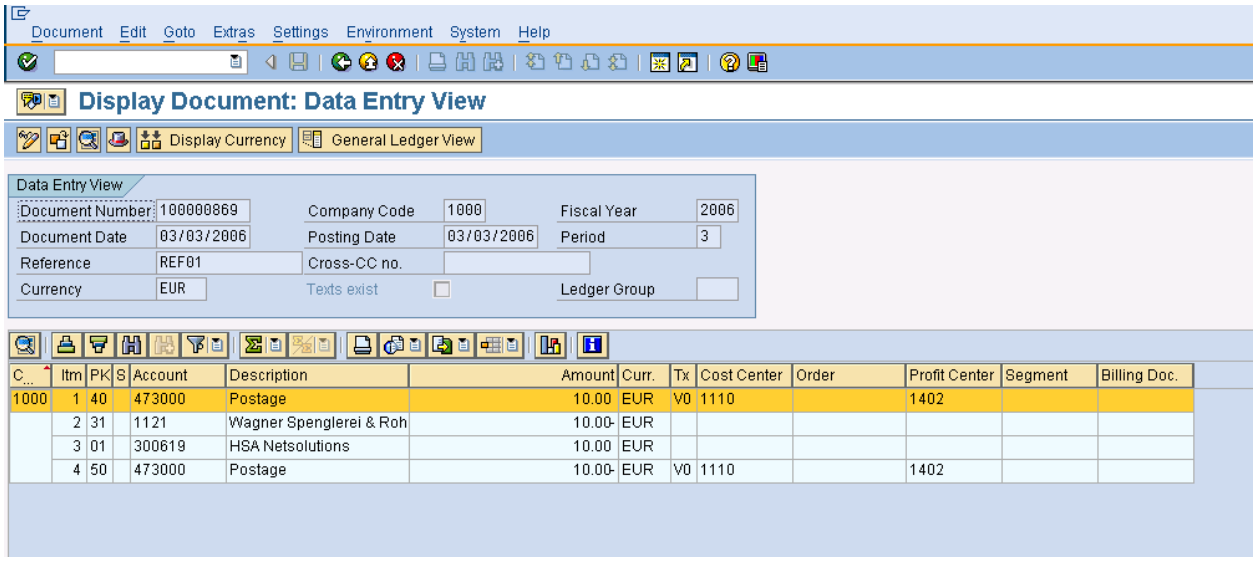


Microsoft Excel - FB01.xls

P2: Document 100000869 was posted in company code 1000

	E	F	G	H	I	J	K	L	M	N	O	P
1	Fiscal period	Currency Key	Reference Document Number	Document Header Text	Posting Key for the Next Line Item	Account or Matchcode for the Next Line Item	Amount in document currency	Tax Code	Item Text	Cost Center	Status	JSMITH-DM0-800 10-Mar-2010 - 3:22 PM FB01 - sample.itf [AX]
2		3 EUR	ref01	doc hdr txt	40	473000	10	V0	line itm txt 1	1110	S:F5-312	Document 100000869 was posted in company code 10
3					31	1121	10	**				
4					01	300619	10	**				
5					50	473000	10	V0		1110		
6												
7		3 EUR	ref01	doc hdr txt	40	473000	10	V0	line itm txt 1	1110	S:F5-312	Document 100000870 was posted in company code 10
8					31	1121	10	**				
9					01	300619	10	**				
10					50	473000	10	V0		1110		
11												
12												

We can verify the document posting in SAP as well as shown below (using FB03).



Document Edit Goto Extras Settings Environment System Help

Display Document: Data Entry View

Display Currency | General Ledger View

Data Entry View

Document Number	100000869	Company Code	1000	Fiscal Year	2006
Document Date	03/03/2006	Posting Date	03/03/2006	Period	3
Reference	REF01	Cross-CC no.			
Currency	EUR	Texts exist	☐	Ledger Group	

C...	Itm	PK	S	Account	Description	Amount	Curr.	Tx	Cost Center	Order	Profit Center	Segment	Billing Doc.
1000	1	40		473000	Postage	10.00	EUR	V0	1110		1402		
	2	31		1121	Wagner Spenglerei & Roh	10.00-	EUR						
	3	01		300619	HSA Netsolutions	10.00	EUR						
	4	50		473000	Postage	10.00-	EUR	V0	1110		1402		

This concludes our FB01 document posting.