

Using Filter Group in Change Pointers for Vendor



Applies to:

SAP ECC 6.0, ECC 5.0. For more information, visit the [ABAP homepage](#).

Summary

This tutorial explains step-by-step procedure to configure change pointers for vendor creation into ECC6.0.

Author: Hemant Ghiya

Company: Intelligroup Asia Pvt Ltd

Created on: 22 oct 2009

Author Bio

Hemant Ghiya is a senior associate consultant currently working for Intelligroup Asia Pvt. Ltd. He is having good knowledge in SAP CRM.

Table of Contents

1 Change Pointers	3
2 Configuring ALE	3
3. Advantage of Change Pointers with filter group	3
4. Business Scenario	3
4.1 Basic settings	3
4.2: Assign objects type to Message type:	4
4.3: Assign Message type to Distribution Model:	7
4.4. Maintain Partner Profile In ECC6.0	10
4.5. Maintain Partner Profile in ECC 5.0:	11
4.6. Activating Change Pointers:	12
4.7. Activate Change Pointers for Message type	12
4.8. Create vendor:	13
4.9. Send Vendor	15
4.10. Status of IDOC into sender side	16
4.11. Status of IDOC into receiver side	17
4.12 Vendor master in ECC5.0:	19
You can see the vendor details into LFA1	20
Related Content	21
Disclaimer and Liability Notice	22

1 Change Pointers

The change pointer is a technique used to initiate the outbound process automatically when master data is created or changed depending on the settings maintained.

2 Configuring ALE

- ✓ Identify or create the logical systems for sending the data (Idocs) using T code BD54.
- ✓ Check or Assign these logical systems to appropriate technical system using T code SCC4.
- ✓ Identify or Create the RFC Destination to target system using T code SM59
- ✓ Identify or Create the Ports using T code WE21.
- ✓ Maintain the Partner Profiles using T code WE20.
- ✓ Maintain or Create the Model view using T code BD64 depending on your Message type and distribute the Model View.

Note: Depending on the Requirement analyze and decide whether to create or maintain the configuration settings. Usually we use the existing configuration settings given by the BASIS team.

3. Advantage of Change Pointers with filter group

Change pointers are used to initiate the outbound process automatically when there is a change in the master data.

- ➔ It will automatically trigger outbound process according to filter group setting.
- ➔ It will trigger when any master data created and changed for particular filter group settings.
- ➔ It will trigger and create an idoc and send it to other system.

4. Business Scenario

We will be creating a vendor in ECC6.0 Server and we will distribute this to ECC5.0 Server using the filter on purchase organization and account group in distribution model.

4.1 Basic settings:

Maintain or check all the basic settings configuration settings which include logical systems, Assignment of Logical systems, RFC Destinations, Ports.

In our Scenario

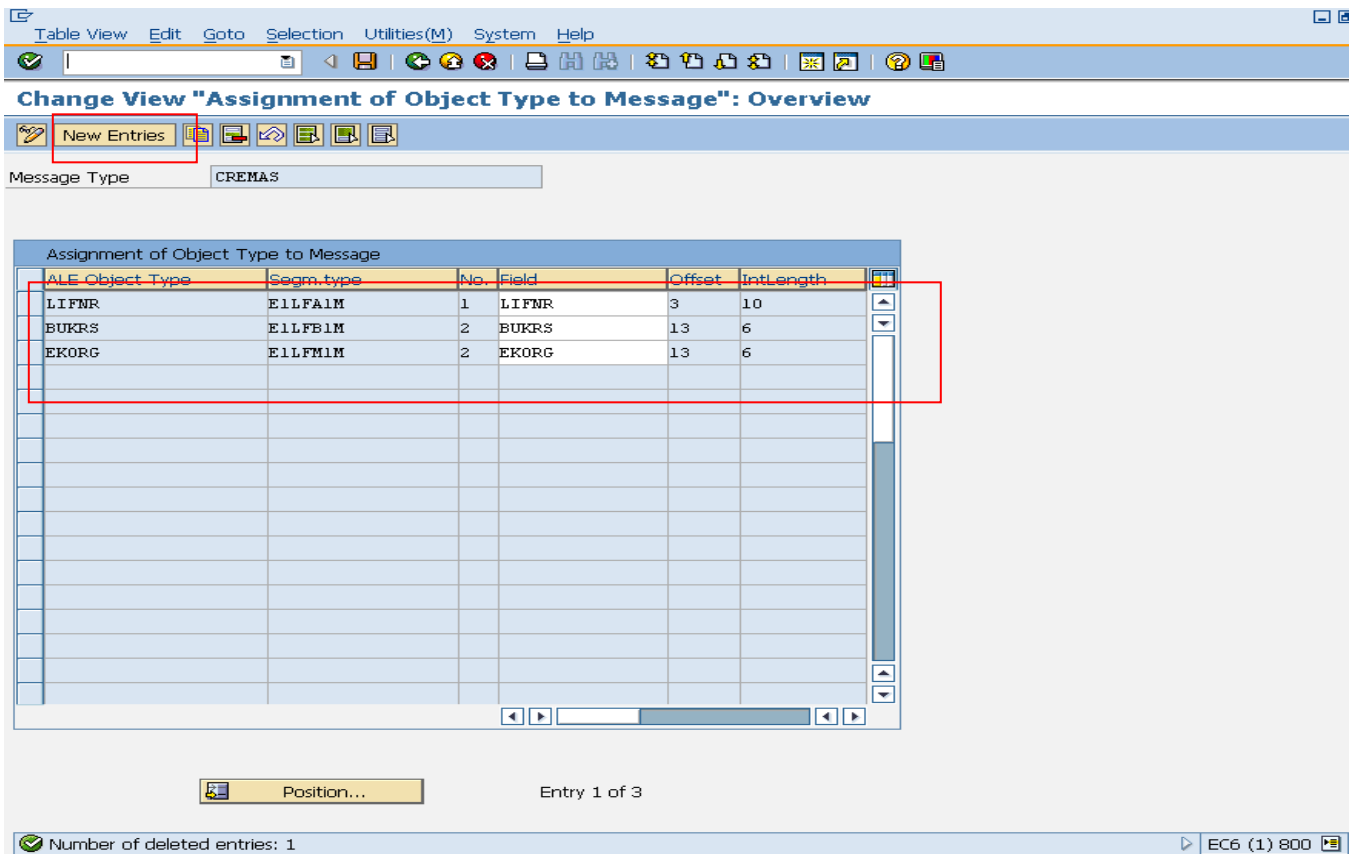
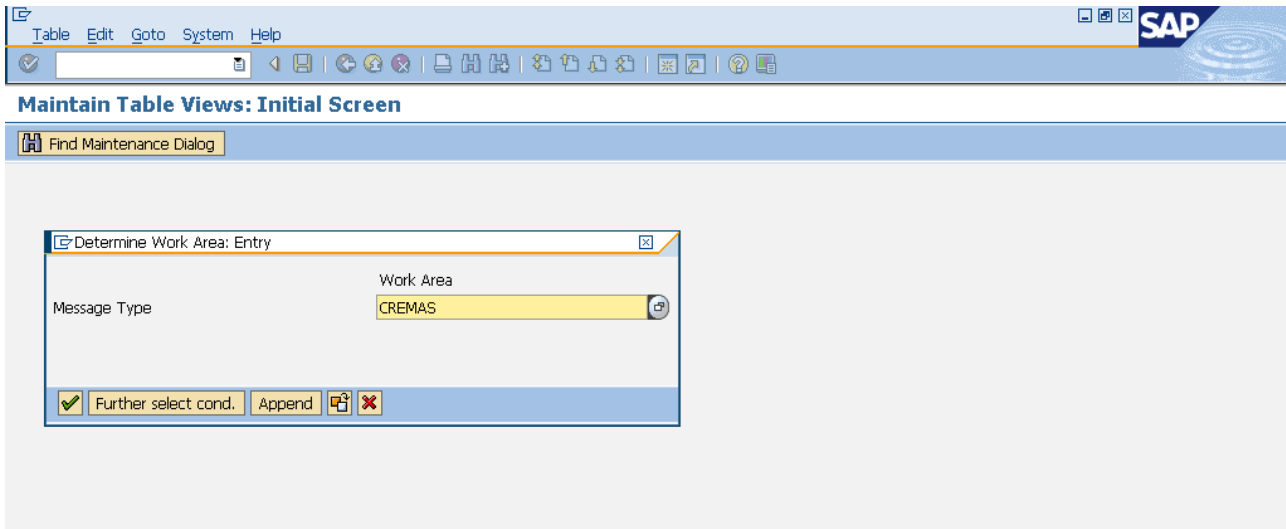
Logical Systems are

Sender system --> LSS_BT [i.e., ECC6.0]

Receiver system --> LSR_BT [i.e. ECC5.0]

4.2: Assign objects type to Message type:

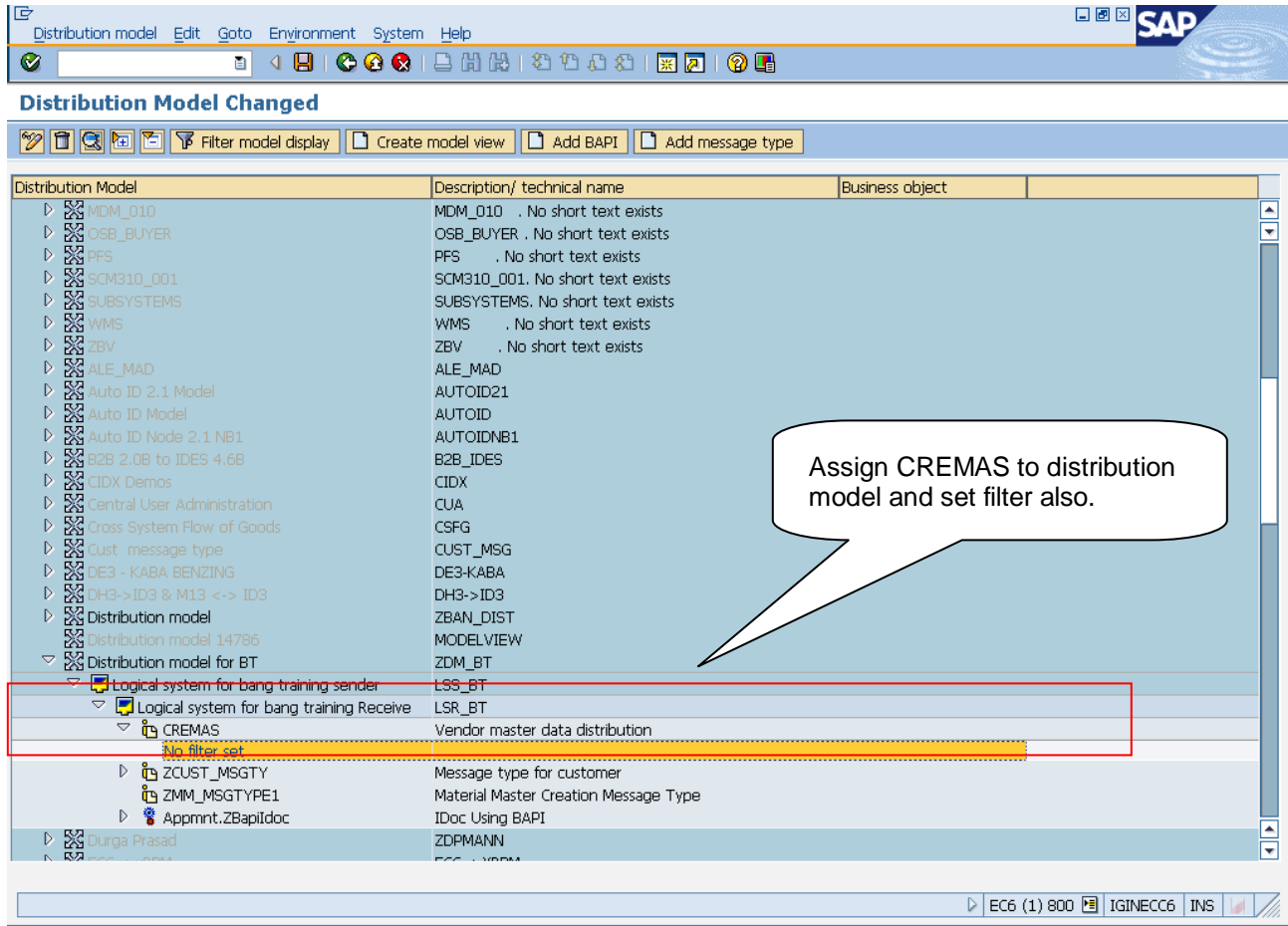
Go to BD59 and assign object type to message type. By this way you can assign the objects type to message type which you want to use as a filter component in message type.



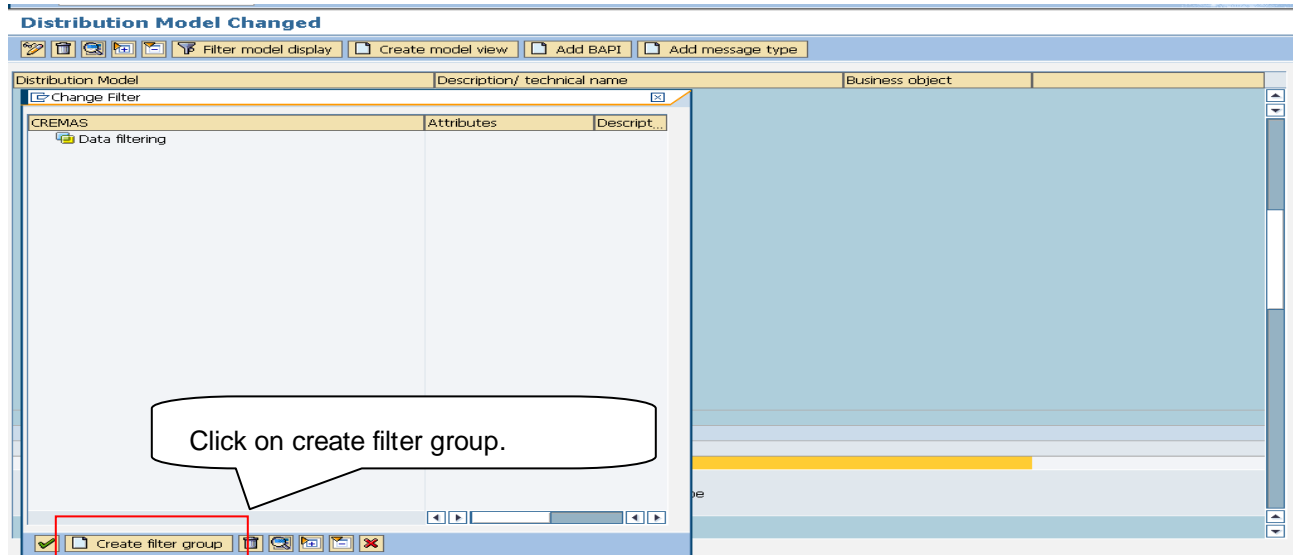
To add new entries click on Add entries.

4.3: Assign Message type to Distribution Model:

Go to BD64 and maintain MODEL VIEW. Since we are transferring VENDOR MASTER we have to use CREMAS Message type for it. Refer to the screen shot.



We have to set filter for purchase organization 1000 and Account group CPD. The account group and purchase organization should exist in both the system.



Distribution Model Changed

Filter model display | Create model view | Add BAPI | Add message type

Distribution Model	Description/ technical name	Business object
CREMAS		
Data filtering		
Filter group		
Purch. Organization		Purchasing
Account group		Vendor ac
Global CoCde		Name of g
Dependent on class membership	<input type="checkbox"/> Dependent on cla...	Requires c

Filter group is created which is having Purchasing organization and account group. Double click on filter group component to set filter values.

Distribution Model Changed

Filter model display | Create model view | Add BAPI | Add message type

Distribution Model	Description/ technical name	Business object
CREMAS		
Data filtering		
Edit List of Values		
Filter object type:	Purch. Organization	
Val...		

Add or delete values.

Create filter group

Distribution Model Changed

Filter model display | Create model view | Add BAPI | Add message type

Distribution Model	Description/ technical name	Business object
CREMAS	Attributes	Descript...
Data filtering		
Filter group		
Purch. Organization	Purchasing	
1000	IDES Deut	
Account group	Vendor ac	
CPD	02, X, One	
Global CoCde	Name of g	
Dependent on class membership	<input type="checkbox"/> Dependent on cla...	Requires c

Added 1000 for purchase organization and CPD for Account group.

Create filter group

Change Distribution Model

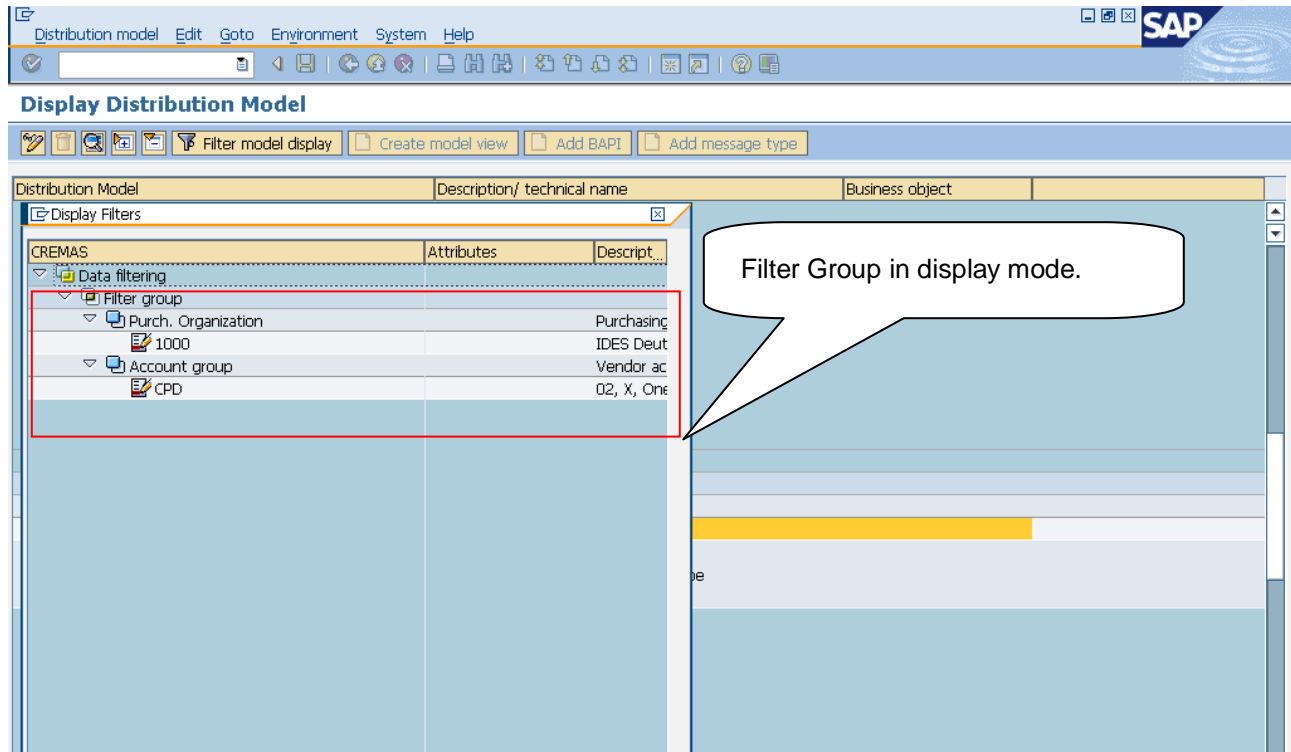
Filter model display | Create model view | Add BAPI | Add message type

Distribution Model	Description/ technical name	Business object
MDM_010	MDM_010 . No short text exists	
OSB_BUYER	OSB_BUYER . No short text exists	
PFS	PFS . No short text exists	
SCM310_001	SCM310_001. No short text exists	
SUBSYSTEMS	SUBSYSTEMS. No short text exists	
WMS	WMS . No short text exists	
ZBV	ZBV . No short text exists	
ALE_MAD	ALE_MAD	
Auto ID 2.1 Model	AUTOID21	
Auto ID Model	AUTOID	
Auto ID Node 2.1 NB1	AUTOIDNB1	
B2B 2.0B to IDES 4.6B	B2B_IDES	
CIDX Demos	CIDX	
Central User Administration	CUA	
Gross System Flow of Goods	CSFG	
Cust - message type	CUST_MSG	
DE3 - KABA BENZING	DE3-KABA	
DH3->ID3 & M13 <-> ID3	DH3->ID3	
Distribution model	ZBAN_DIST	
Distribution model 14786	MODELVIEW	
Distribution model for BT	ZDM_BT	
Logical system for bang training sender	LSS_BT	
Logical system for bang training Receive	LSR_BT	
CREMAS	Vendor master data-distribution	
Data filter active		
ZCUST_MSGTY	Message type for customer	
ZMM_MSGTYPE1	Material Master Creation Message Type	
Appmnt.ZBapiDoc	IDoc Using BAPI	
Durga Prasad	ZDPMANN	

Data filter is active.

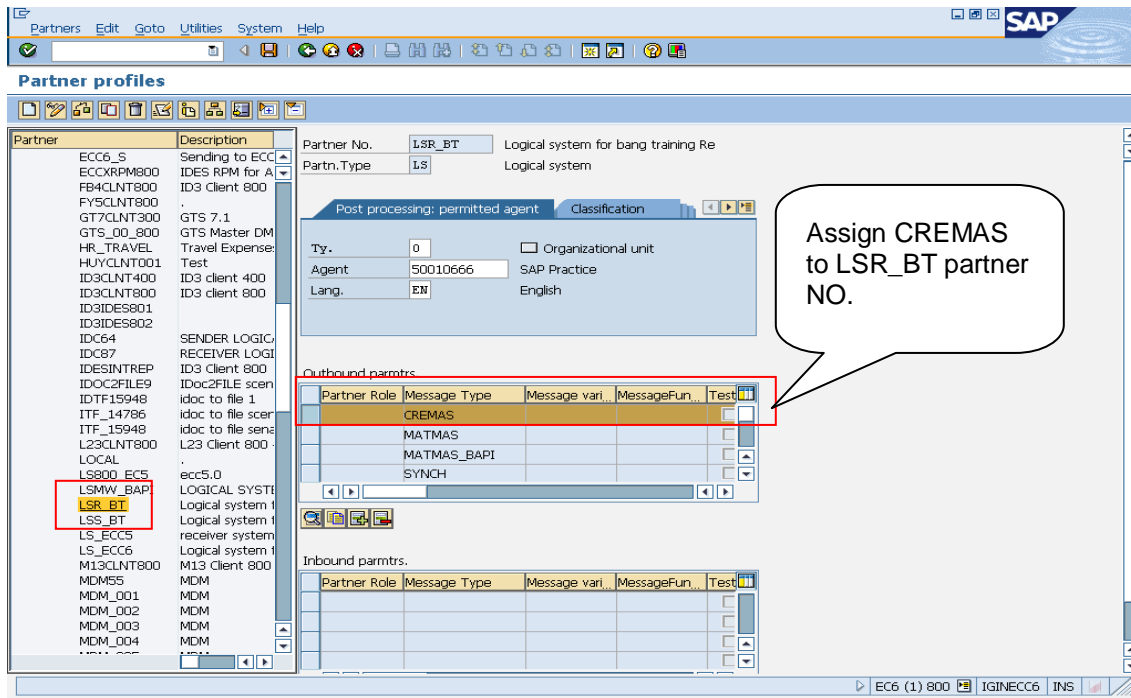
Distribution model has been saved

EC6 (1) 800 | IGINECC6 | INS



4.4. Maintain Partner Profile In ECC6.0:

We have to maintain partner profile into ECC6.0. So Go to WE20 and assign message type to LSR_BT partner profile.



Partner profiles: Outbound parameters

Partner No. Logical system for bang training Re
 Partn.Type Logical system
 Partner Role

Message Type Vendor master data distribution
 Message code
 Message function Test

Outbound Options | Message Control | Post Processing: Permitted Agent | Tele...

Receiver port Transactional RFC Port for bang training
 Pack. Size
 Queue Processing

Output Mode
 Transfer IDoc Immed. Output Mode
 Collect IDocs

IDoc Type
 Basic type Vendor master data distributor
 Extension
 View
 Cancel Processing After Syntax Error
 Seg. release in IDoc type Segment Appl. Rel.

Give receiving port and give basic type for vendor creation CREMAS01.

4.5. Maintain Partner Profile in ECC 5.0:-

Now go to receiver side and give that message type into partner profile.

Partner profiles

Partner no. Logical system for bang training se
 Partn.Type Logical system

Post processing: permitted agent | Classification

Typ Organizational unit
 Agent EDI Department
 Lang. English

Outbound parmters.

Partner Role	Message type	Message vari...	MessageFun...	Test
	CREMAS			<input type="checkbox"/>

Inbound parmters.

Partner Role	Message type	Message vari...	MessageFun...	Test
	CREMAS			<input type="checkbox"/>

Assign CREMAS to receiver side partner No.

Display View "Process codes, inbound": Details

Process code: CRE1
 Description: CREMAS Vendor master data
 Identification: IDOC_INPUT_CREDITOR

Option ALE
 Processing with ALE service
 Processing w/o ALE service

Processing type
 Processing by task
 Processing by function module
 Processing by process

Process code is having function module.

4.6. Activating Change Pointers:

Now go to T Code BD61 in sender system. Activate the checkbox to activate the change pointers globally. Refer to the screen shot.

Activate Change Pointers Generally

Activation status
 Change pointers activated - generally

4.7. Activate Change Pointers for Message type

Go to BD50 in sender side and activate the change pointers for CREMAS. Refer to the screen shot

Change View "Activate Change pointers for Message Type": Overview

Activate Change pointers for Message Type

Messg.Type	active	
CREMAS	<input checked="" type="checkbox"/>	
CREMAS_SUSMM	<input checked="" type="checkbox"/>	
DANGEROUSGOOD	<input type="checkbox"/>	
DEBCOR	<input type="checkbox"/>	

4.8. Create vendor:

Go to XK01 and create a vendor who is having purchase organization 1000 and Account group CPD.

Create Vendor: Initial Screen

Vendor	<input type="text"/>
Company Code	1000
PurchasingOrganization	1000
Account group	cpd

Reference	
Vendor	<input type="text"/>
Company code	<input type="text"/>
PurchasingOrganization	<input type="text"/>

Create Vendor: Address

Vendor: INTERNAL

Preview Internat. versions

Name
Title: Mr.
Name: vendor

Search Terms
Search term 1/2: ven1

Street Address
Street/House number:
Postal Code/City:
Country: IN Region:

PO Box Address
PO Box:
Postal code:

Communication
Language: EN English
Telephone: Extension:
Fax: Extension:
StandardComm.Mtd:
Data line:

Vendor Edit Goto Extras Environment System Help

Create Vendor: Accounting information Accounting

Vendor: INTERNAL vendor
Company Code: 1000 IDES AG

Accounting information
Recon. account: 160000 Sort key:
Subsidy indic.:
Authorization:

Reference data
Prev.acct no.:

Vendor Edit Goto Extras Environment System Help

Create Vendor: Purchasing data

Alternative data Sub-ranges

Vendor: INTERNAL vendor
 Purchasing Org.: 1000 IDES Deutschland

Conditions

Order currency:

Terms of payment:

Incoterms:

Minimum order value:

Schema Group, Vendor: Standard procedure vendor

Pricing Date Control: No Control

Order optim.rest.:

Sales data

Salesperson:

Telephone:

Acc. with vendor:

Vendor Edit Goto Extras Environment System Help

Create Vendor: Initial Screen

Vendor:

Company Code: 1000 IDES AG

PurchasingOrganization: 1000 IDES Deutschland

Account group: CPD

Reference

Vendor:

Company code:

PurchasingOrganization:

Vendor 2042 created.

Vendor 0000002042 has been created for company code 1000 purchasing organization 1000

EC6 (1) 800 IGINECC6 INS

4.9. Send Vendor: Go to T code BD14 and give material number and Send Material. You can also go to RBDMIDOC program and execute for the entire vendor that for particular message type. Refer the screen shots. We are using particular T code BD14 to execute for particular vendor. So program is particular to message type and T Code is particular to vendor.

Send vendor

Account number of vendor 2042 to []

Class [] to []

Message type cremas

Target system []

Parallel processing

Server group []

Number of vendors per process 20

We have to give vendor number and Message type.

Information

1 master IDocs set up for message type CREMAS

Information

1 communication IDoc(s) generated for message type CREMAS

4.10. Status of IDOC into sender side: You can see the status into WE05 transaction in to sender side.

The screenshot shows two SAP windows. The top window is titled 'IDoc List' and displays a form with various fields. The 'Direction' field is highlighted with a red box and contains the value '1'. The bottom window is titled 'SAP' and shows a table of 'Selected IDocs'.

IDoc List Form Fields:

- Created At: 00:00:00 to 24:00:00
- Created On: 07.07.2009 to 07.07.2009
- Last Changed at: 17:40:00 to 24:00:00
- Last Changed on: [] to []
- Direction: 1** (highlighted)
- IDoc Number: [] to []
- Current Status: [] to []
- Basic Type: [] to []
- Enhancement: [] to []
- Logical Message: [] to []
- Message Variant: [] to []

Selected IDocs Table:

IDoc Number	Segm...	Stat.	Stat.	Partner	Basic type	Date created	Time	Messg.T.	Direction	Port
0000000000020764	3 03	00	00	LS/ /LSR_BT	CREMAS01	07.07.2009	18:07:21	CREMAS	Outbox	PORT_BT
00000000000820765	3 03	00	00	LS/ /LSR_BT	CREMAS01	07.07.2009	18:39:17	CREMAS	Outbox	PORT_BT

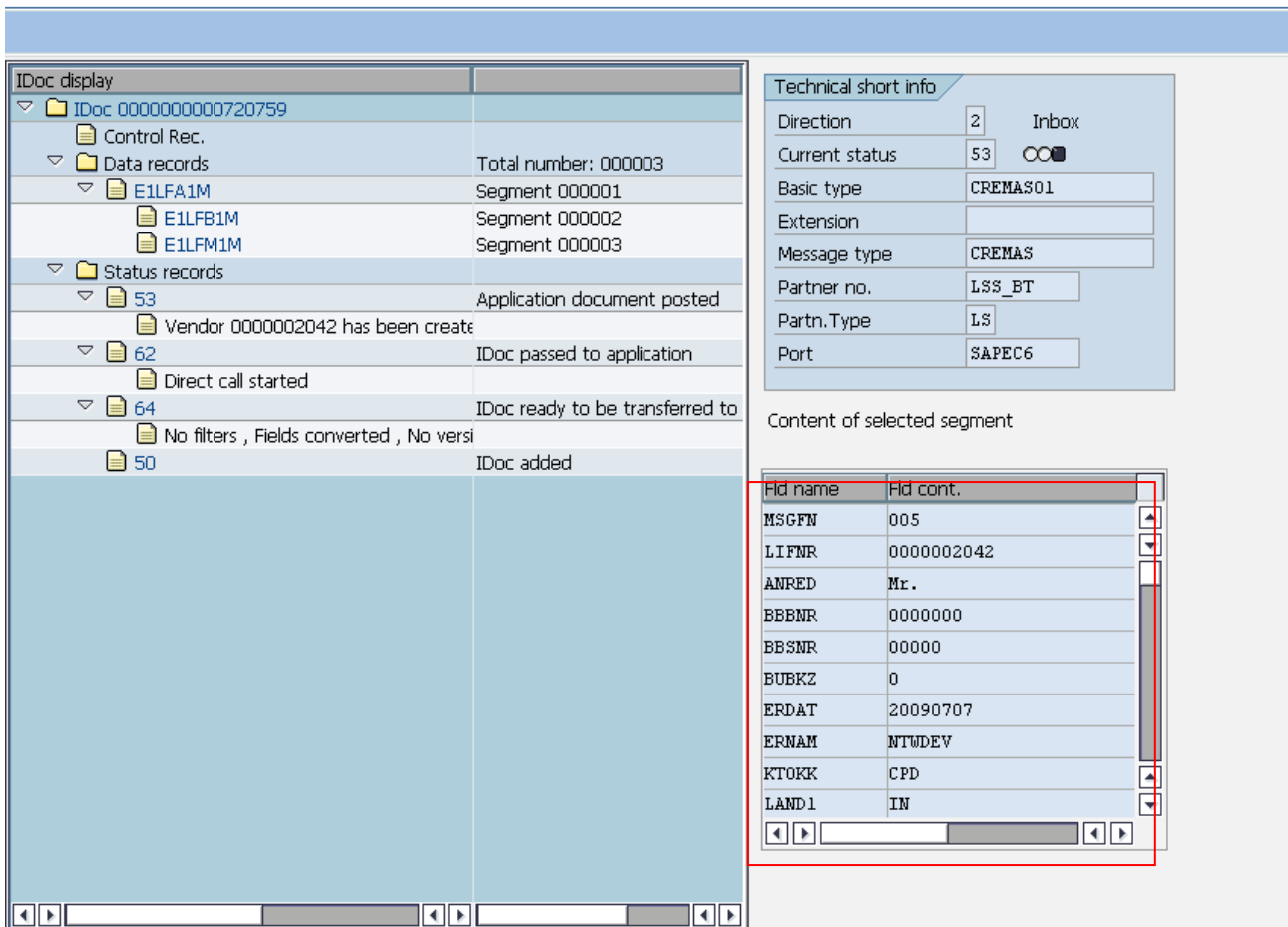
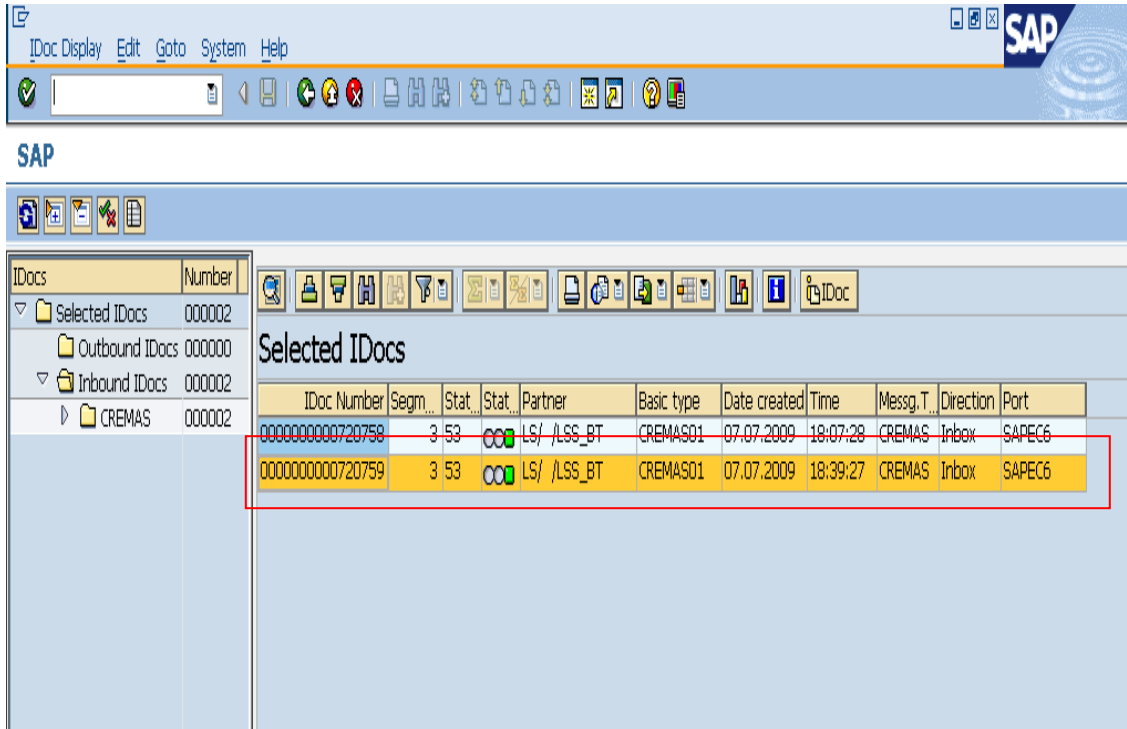
The screenshot shows the SAP IDoc display transaction. On the left, a tree view shows the IDoc structure: IDoc 0000000000820765, Control Rec., Data records (Total number: 000003), and Status records (03: Data passed to port OK, 30: IDoc ready for dispatch (ALE service), 01: IDoc generated). The 'IDoc sent to SA' record is highlighted. On the right, the 'Technical short info' panel shows: Direction 1 (Outbox), Current status 03, Basic type CREMAS01, Extension, Message type CREMAS, Partner No. LSR_BT, Partn.Type LS, and Port PORT_BT. Below this, the 'Content of selected segment' table is displayed:

Fld name	Fld cont.
MSGFN	005
LIFNR	0000002042
BUKRS	GL1000
ERDAT	20090707
ERNAM	NTWDEV
AKONT	0000160000
ZINDT	00000000
ZINRT	00
DATLZ	00000000
WEBTR	0

4.11. Status of IDOC into receiver side: You can see the status into WE05 transaction into receiver side.

The screenshot shows the SAP WE05 IDoc List transaction. The 'Default' tab is active. The filter criteria are as follows:

- Created at: 00:00:00 to 24:00:00
- Created on: 07.07.2009 to 07.07.2009
- Last Changed at: 00:00:00 to 24:00:00
- Last Changed on: to
- Direction: 2 (highlighted in a red box)
- IDoc Number: to
- Current Status: to
- Basic Type: to
- Enhancement: to



4.12 Vendor master in ECC5.0:

Now go to XK03 and see the vendor.

Display Vendor: Initial Screen

Vendor 2042 vendor

Company Code

Purch. Organization

General data

Address

Control

Payment transactions

Company code data

Accounting info

Payment transactions

Correspondence

Withholding tax

Purchasing organization data

Purchasing data

Partner functions

Display Vendor: Address

Vendor 2042

CIN Details

Preview

Name

Title Mr.

Name vendor

Search terms

Search term 1/2 VEN1

Street address

Street/House number

Postal Code/City

Country_12 IN India Region

PO box address

PO Box

Postal code

Communication

Language EN English

Other communication...

Telephone Extension

Fax Extension

Data line

Telebox

You can see the vendor details into LFA1.

Data Browser: Table LFA1: Selection Screen

Number of Entries

LIFNR to

LAND1 to

PSTL2 to

PSTLZ to

ADRNR to

ERDAT to

KTOKK to

WERKS to

WERKR to

MATNR to

Width of Output List

Maximum No. of Hits

Table LFA1 Display		Table LFA1 Display	
Check Table...		Check Table...	
MANDT	800	BUBKZ	0
LIFNR	2042	DATLT	
LAND1	IN	DTAMS	
NAME1	vendor	DTAWS	
NAME2		ERDAT	07.07.2009
NAME3		ERNAM	NTUDEV
NAME4		ESRNR	
ORT01		KONZS	
ORT02		KTOKK	CPD
PFACH		KUNNR	
PSTL2		LNRZA	
PSTLZ		LOEVM	
REGIO		SPERR	
SORTL	VEN1	SPERM	
STRAS		SPRAS	EN
ADRNR	67955	STCD1	
MCOD1	VENDOR	STCD2	
MCOD2		STKZA	
MCOD3		STKZU	
ANRED	Mr.	TELBX	
BAHNS		TELF1	
BBBNR	0	TELF2	
BBSNR	0	TELFX	
BEGRU		TELTX	
		TELX1	

Related Content

[Knowledge Search](#)

[Change Pointers](#)

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

Disclaimer and Liability Notice

This document may discuss sample coding or other information that does not include SAP official interfaces and therefore is not supported by SAP. Changes made based on this information are not supported and can be overwritten during an upgrade.

SAP will not be held liable for any damages caused by using or misusing the information, code or methods suggested in this document, and anyone using these methods does so at his/her own risk.

SAP offers no guarantees and assumes no responsibility or liability of any type with respect to the content of this technical article or code sample, including any liability resulting from incompatibility between the content within this document and the materials and services offered by SAP. You agree that you will not hold, or seek to hold, SAP responsible or liable with respect to the content of this document.