

ALE-IDOC

Introduction to EDI and ALE:

- EDI (Electronic Document interchange) - EDI is the electronic exchange of business documents between the computer systems of business partners, using a standard format over a communication network.

EDI is also called paperless exchange.

- **Advantages:**

- Reduced Data entry errors
Reduced processing time
Availability of data in electronic form
Reduced paperwork
Reduced Cost
Reduced inventories and better planning
Standard means of communications
Better business process

- **ALE** : Application Link Enabling.
- Used to transfer data from one location to another or one server to another server or one client to another client.
- **IDOC**: its like a data container or packet which holds the data.
- IDOC doesn't have any direction. We need to specify the direction by specifying sending & receiving logical systems.
- 3 types of record.
 1. Data record (EDIDD): Actual business data.
 2. Control record (EDIDC): Which message type, sending system , receiving system
 3. Status record (EDIDS): IDOC status messages.

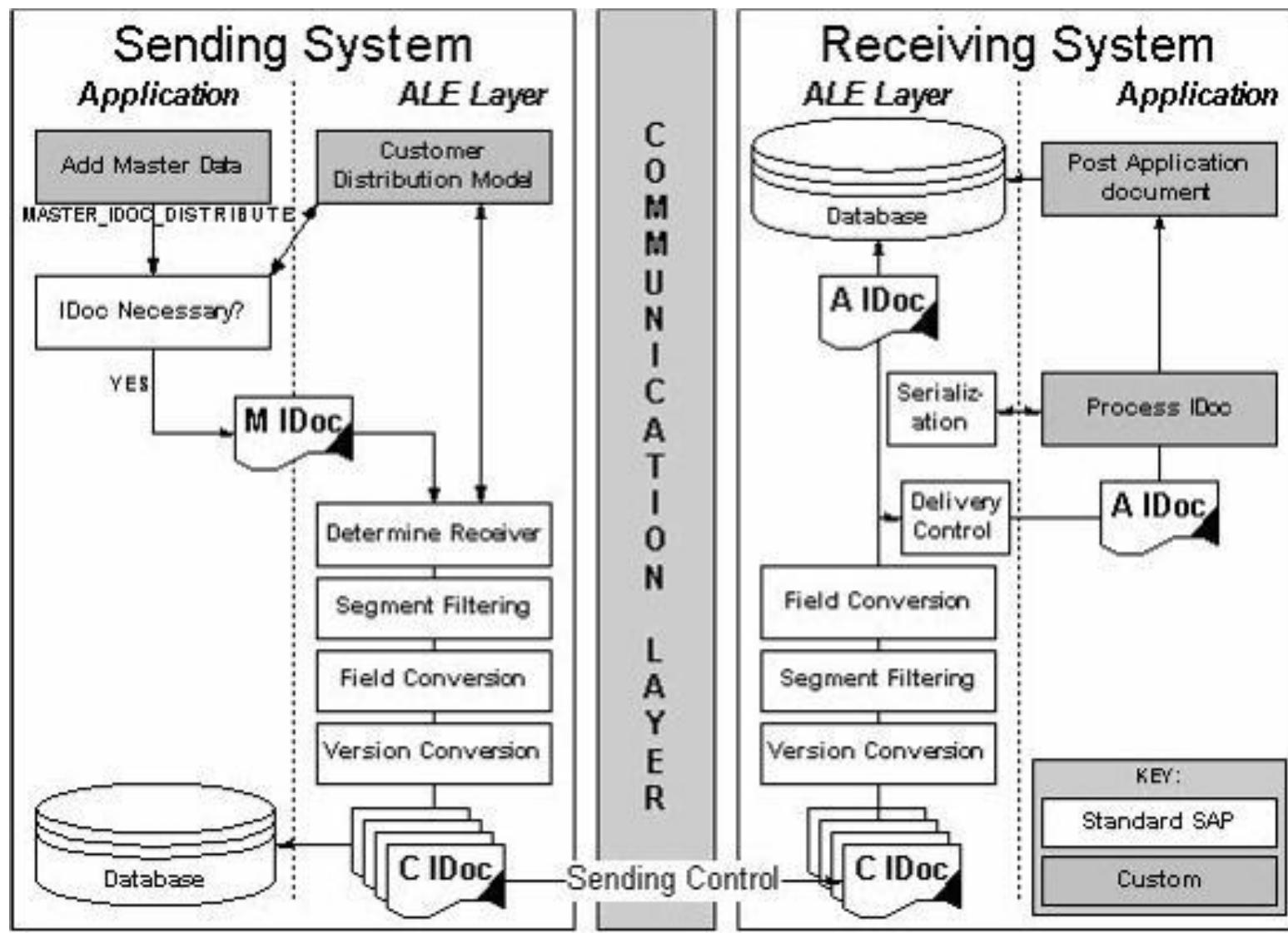
- **EDI has two process**
 1. Outbound process
 2. Inbound process
- **Outbound Process:**
 1. Application document is created.
 2. IDOC is generated
 3. Idoc is transferred from SAP to Operating system layer
 4. Idoc is converted into EDI standards
 5. Edi document is transmitted to the business partner
 6. The Edi Subsystem report status to SAP

- **Inbound Process:**

- 1.EDI transmission received
- 2.EDI document is converted into an IDOC
- 3.IDOC is transferred to the SAP layer
- 4.The application document is created
- 5.The application document can be viewed.

- **PORT:**

Port is used in the outbound process to determine the name of the EDI subsystem program, the directory path where the IDOC file will be created at the operating system level, the IDOC file names and the RFC destinations.



- **RFC Destination:**
Used to define the characteristics of communication links to a remote system on which a function needs to be executed.
- **Partner Profile:**
Partner profile specifies the various components used in an outbound process (Partner number, IDOC type, message type, Port, Process code), the mode in which it communicates with the subsystem (batch or immediate) and the person to be notified in case of errors.

- **On both sides:**

Logical System Names **SALE**

Setup RFC destinations **SM59**

Port Destinations **WE21**

- **In Source system:**

Segment Creation **WE31**

Basic IDOC Type Creation **WE30**

Message Type Creation **WE81**

Assign Message Type To Basic IDOC Type **WE82**

Distribution Model **BD64**

Writing Report Program **SE38**

Partner Profile **WE20**

Message control **NACE**

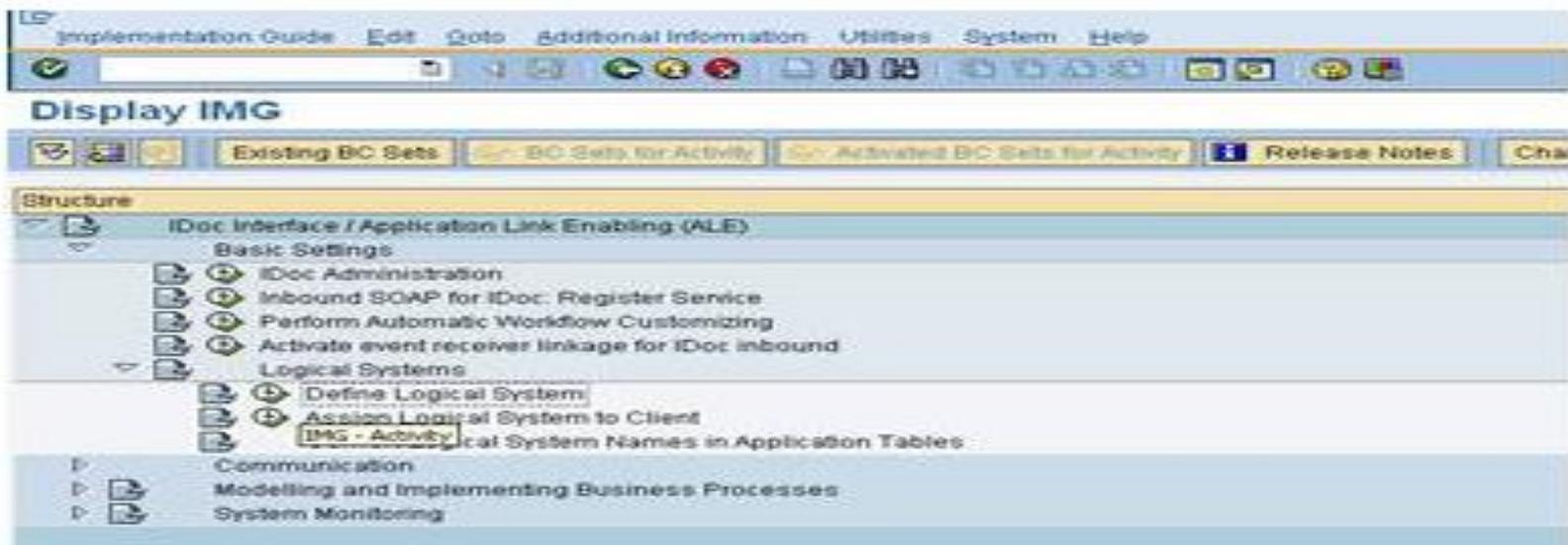
Check IDOCs **WE02, WE05**

- **In Destination System:**
- Creating FM SE37
- Assign FM to Logical Message WE57
- Define I/P method for Inbound FM BD51
- Create Process Code WE42
- Generate Partner Profile BD64

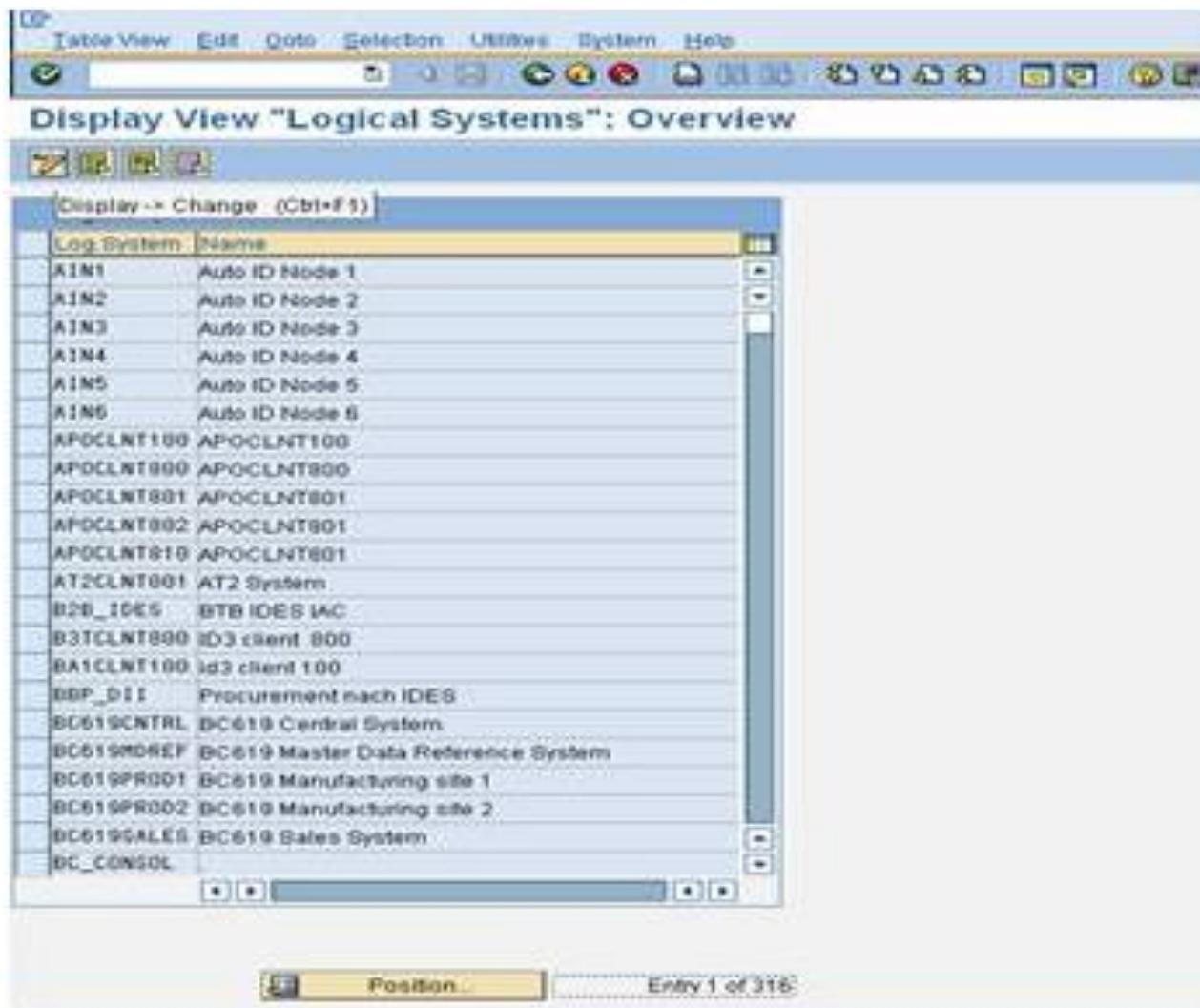
IDOC processing in the same instance of R/3 Clients.

- For example two clients in the same R/3 instance.
- Client 800.
- Client 810.
- To transfer the data between two clients the table structures and their data types should be match.
- In this example, Client 800 is Source system, and Client 810 is destination system.
- In Client 800 I have created a customized table and inserted some records.
- In Client 810 I have created only table.

- **Common Steps in Both Clients:**
- **Creating the Logical System Names and Assigning to Clients:**
 - Go to TCODE **SALE**.
 - IMG path IDoc Interface / Application Link Enabling (ALE)
 - > Basic Settings -> Logical Systems -> Define Logical System



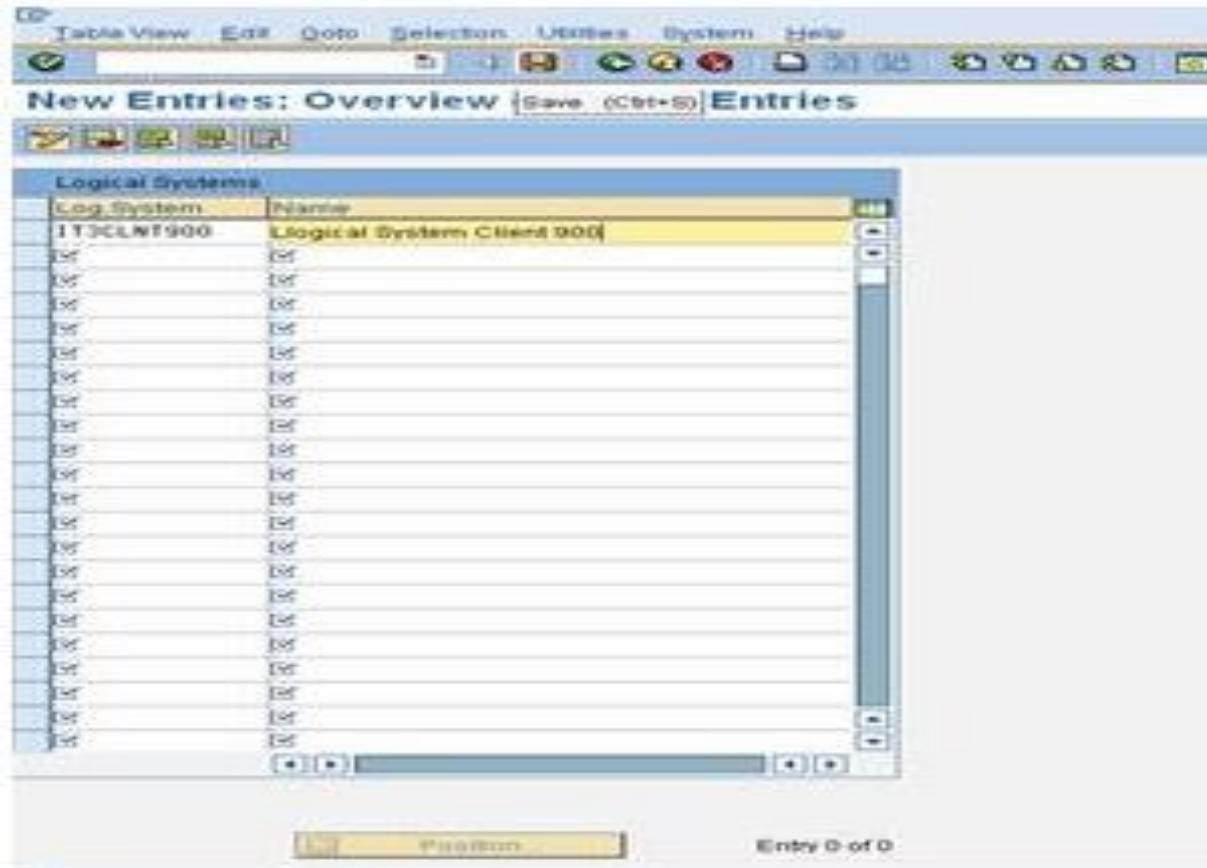
➤ Click on Display / Change Button .



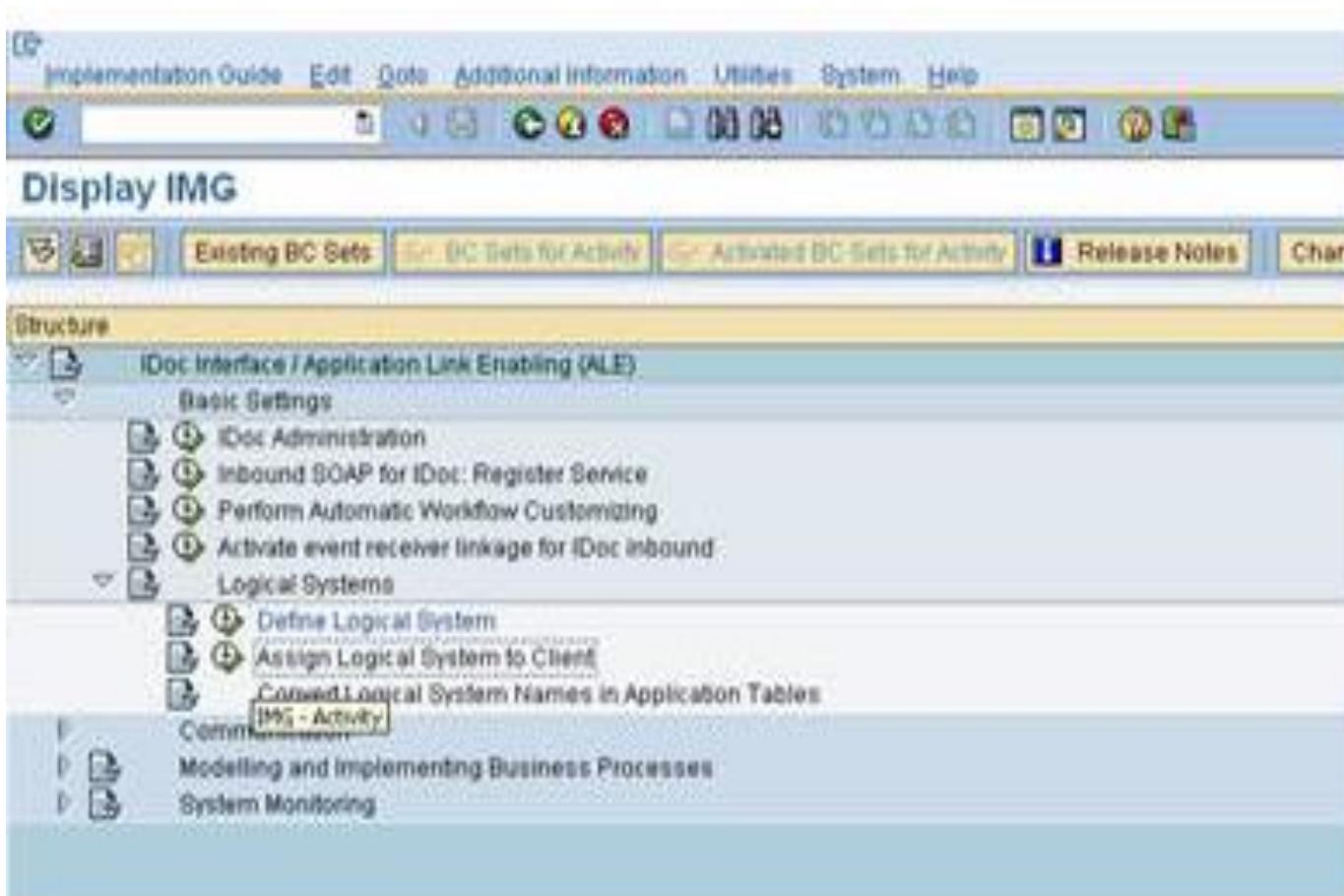
➤ Click on New Entries .

The screenshot shows the SAP ERP interface with the title "Change View 'Logical Systems'; Overview". A toolbar at the top includes icons for Table View, Edit, Data, Selection, Utilities, System, and Help. Below the title is a toolbar with icons for New Entries, Copy, Paste, and others. The main area displays a table titled "Logical Sys" with two columns: "Log. System" and "Name". The table lists various logical systems, with the first entry, "A1N1 Auto ID Node 1", highlighted in yellow. The list includes:
A1N1 Auto ID Node 1
A1N2 Auto ID Node 2
A1N3 Auto ID Node 3
A1N4 Auto ID Node 4
A1N5 Auto ID Node 5
A1N6 Auto ID Node 6
APOCLNT100 APOCLNT100
APOCLNT800 APOCLNT800
APOCLNT801 APOCLNT801
APOCLNT802 APOCLNT802
APOCLNT810 APOCLNT801
AT2CLNT001 AT2 System
B2B_IDES BTB IDES MAC
B3CLNT800 ID3 client 800
BA1CLNT100 id3 client 100
BBP_DIST Procurement nach IDES
BC619CNTRL BC619 Central System
BC619MDREF BC619 Master Data Reference System
BC619PROD1 BC619 Manufacturing site 1
BC619PROD2 BC619 Manufacturing site 2
BC619SALES BC619 Sales System
BC_CONSOL

- Specify the Logical System name and description.
 - Note: Logical System Naming convention is
`<SID>CLNT<NNN>`



- Click on Save and Back buttons
- Now you will come back to the IMG path screen. Click on Assign Logical System to client.

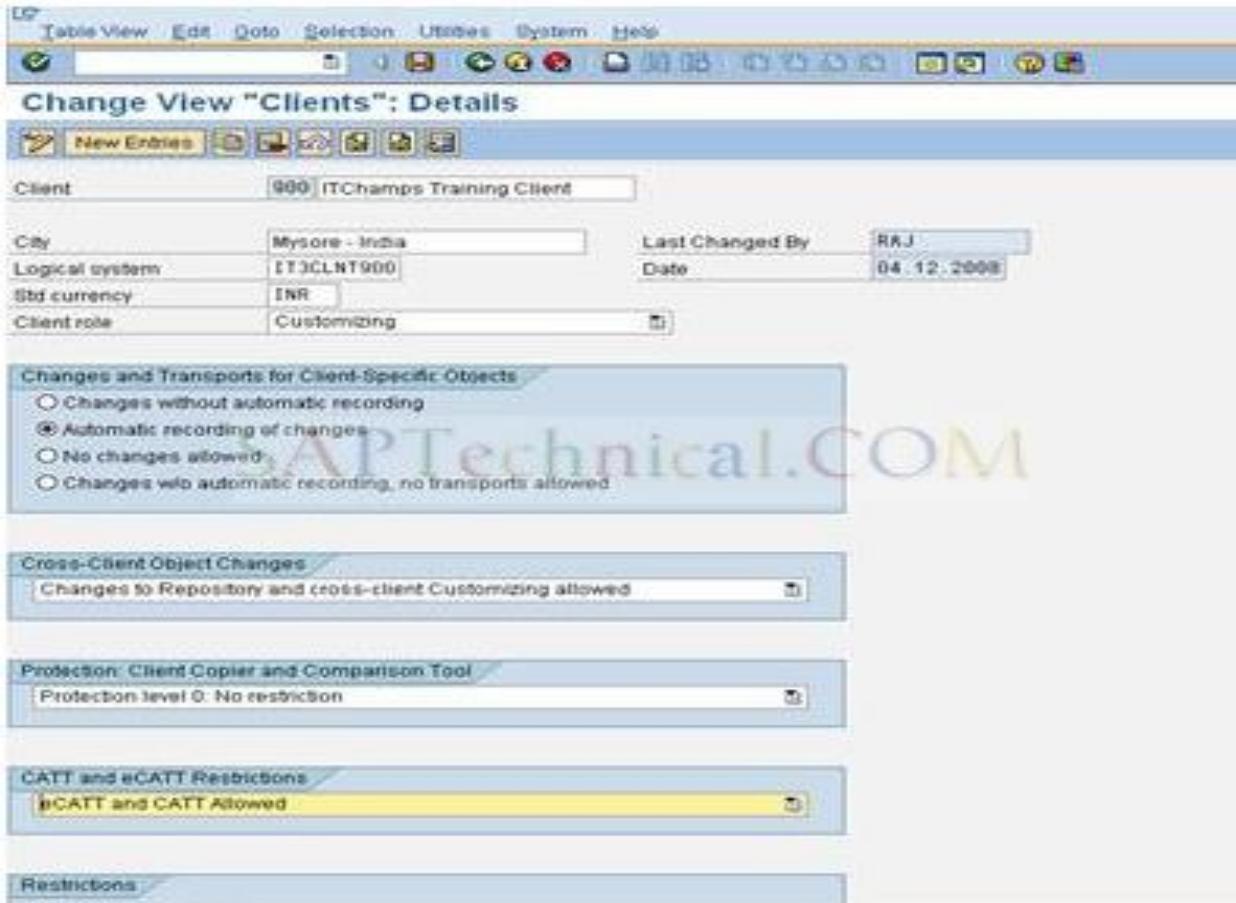


➤ Click on Display / Change Button

The screenshot shows the SAP ERP interface for displaying clients. The title bar reads "Display View 'Clients': Overview". The menu bar includes "Table View", "Edit", "Goto", "Selection", "Utilities", "System", and "Help". Below the menu is a toolbar with various icons. The main area is a table titled "Display -> Change (Ctrl+F1)". The table has columns: Client ID (Kunden-ID), Name (Name), City (City), Crcy (Currency), and Changed on (Changed on). The data rows are:

Kunden-ID	Name	City	Crcy	Changed on
000	SAP AG	Walldorf	DEM	11.04.2008
055	earlyWatch	Walldorf	EUR	28.04.2004
700	system 900	Mysore	INR	14.10.2008
800	IDEIS-ALE: Central FI Syst	Frankfurt - Deutschland	EUR	04.12.2008
810	IDEIS-ALE: Sales System	Barcelona - Spanien	DEM	23.03.2001
811	IDEIS-ALE: Production	Porto - Portugal	EUR	17.09.2004
812	IDEIS-ALE: Warehouse	Dallas, USA	DEM	20.03.2003
900	ITChamps Training Client	Mysore - India	INR	04.12.2008

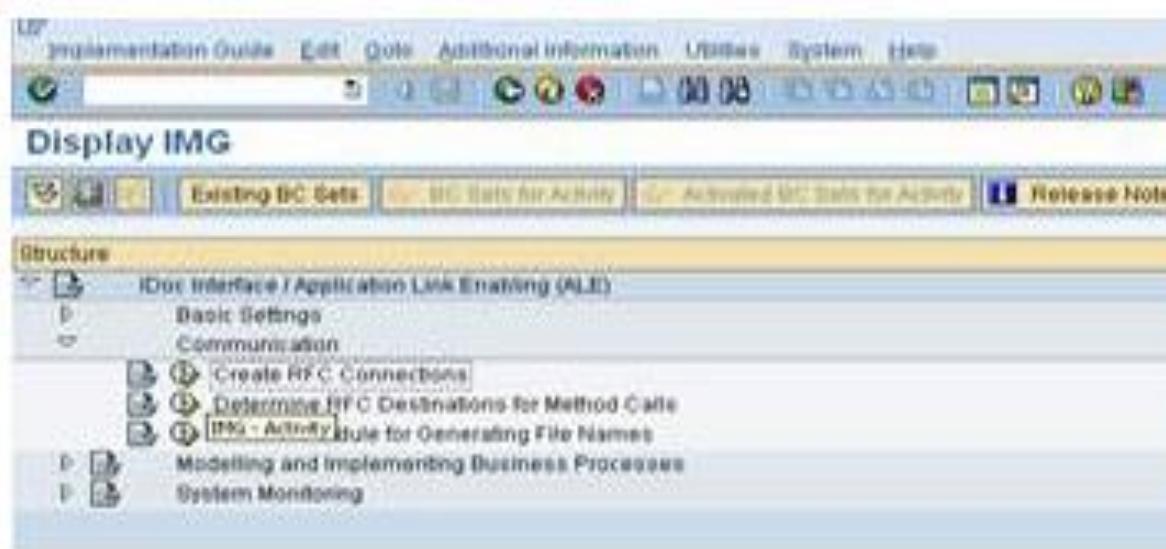
- Click on New Entries



➤eCATT: The Extended Computer Aided Test Tool

- **eCATT:** *The Extended Computer Aided Test Tool* is an automated testing tool that allows you to create automated functional test cases for the majority of applications running in SAP GUI for Windows/Java/HTML or Web Dynpro environments. Like other test tools, it works by making a recording of an application, which you can then parameterize and replay with differing sets of input values. You can test the behavior of the application by reading and testing the values returned by the application.
-
- **eCATT** differs from external tools in that it provides full access to the application server and database layers of the system, allowing you to test function modules, BAPIs as well as Web Services, perform checks against the database, and interrogate or simulate changes to customizing settings

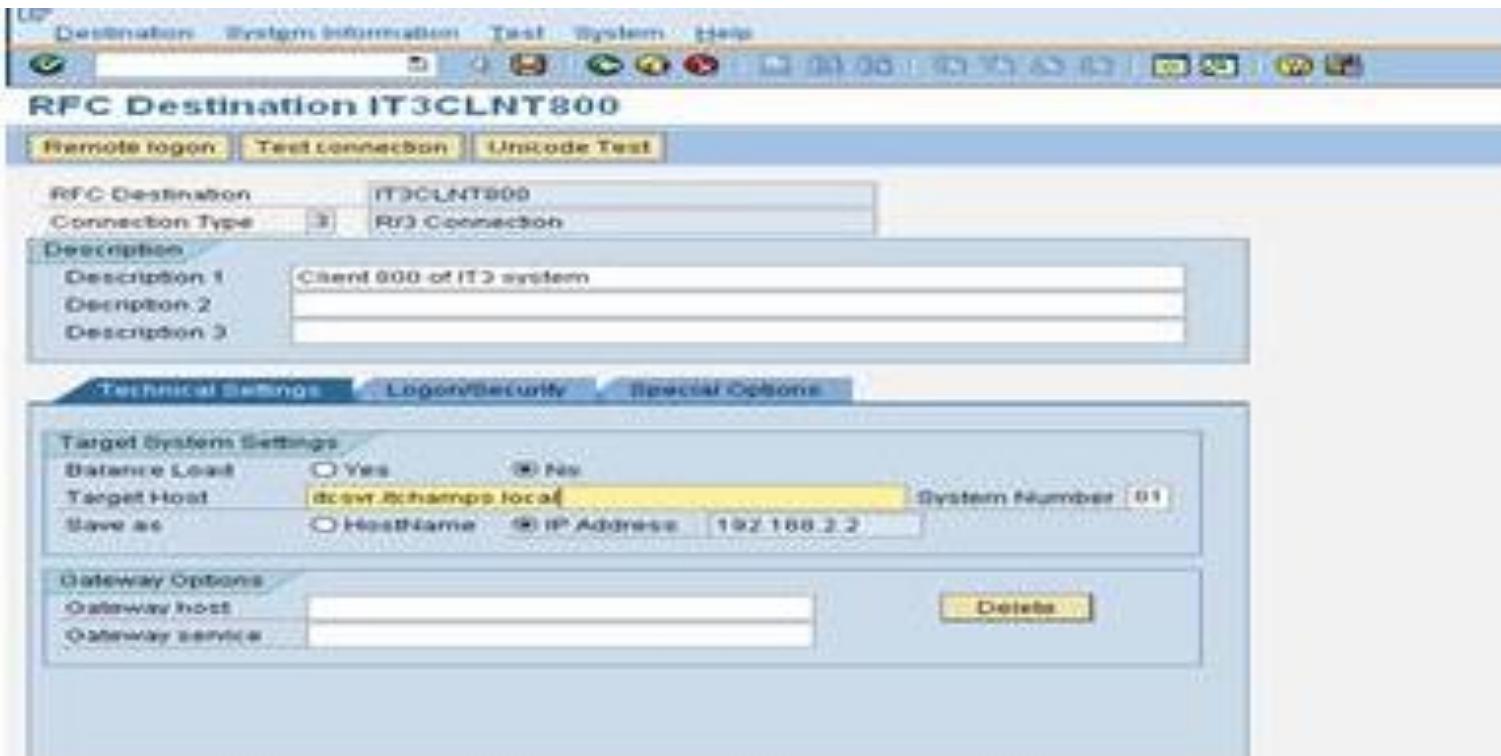
- Go to TCODE SALE. Direct TCODE SM59.
- IMG Path IDoc Interface / Application Link Enabling (ALE)
 - > Communication -> Create RFC Connections.



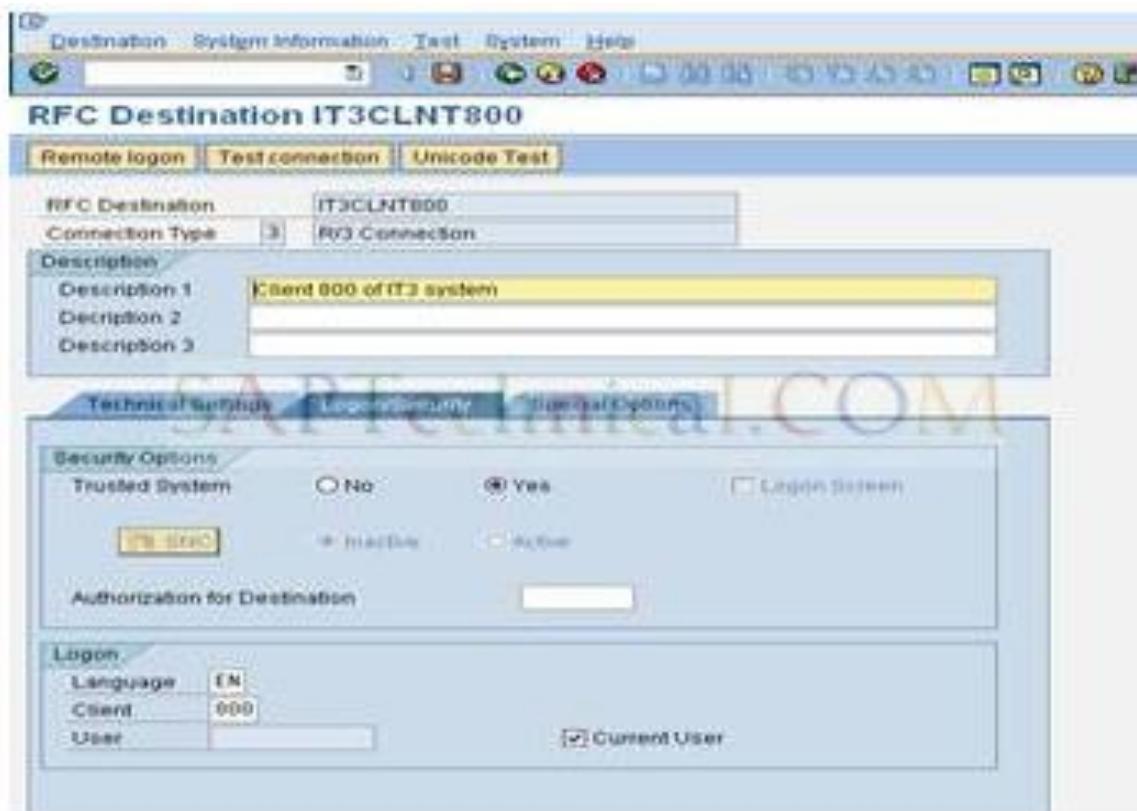
- Click on Create button.



- Specify all the details in RFC connection screen



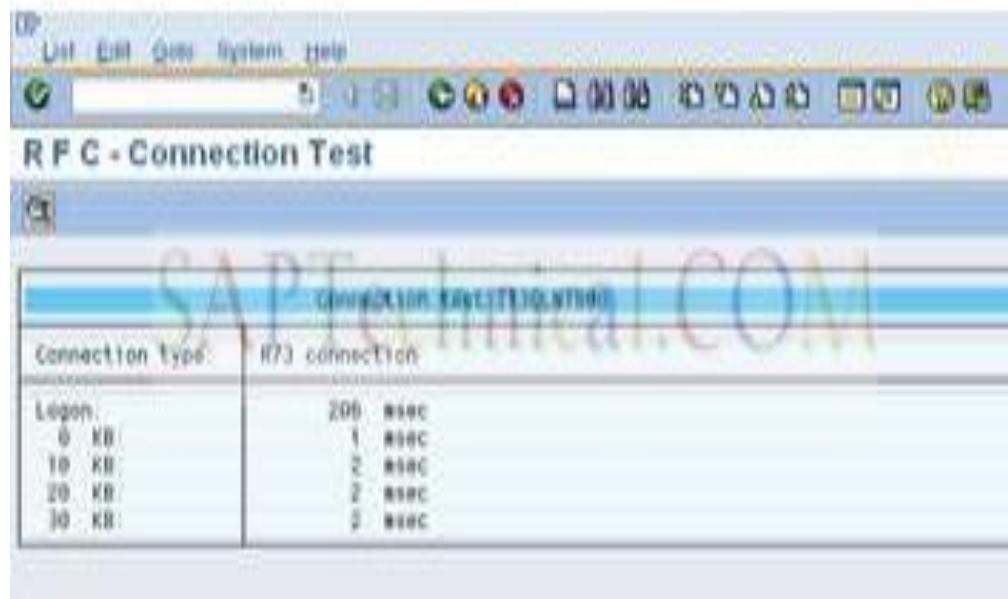
- Click on Logon Security tab and specify the details.



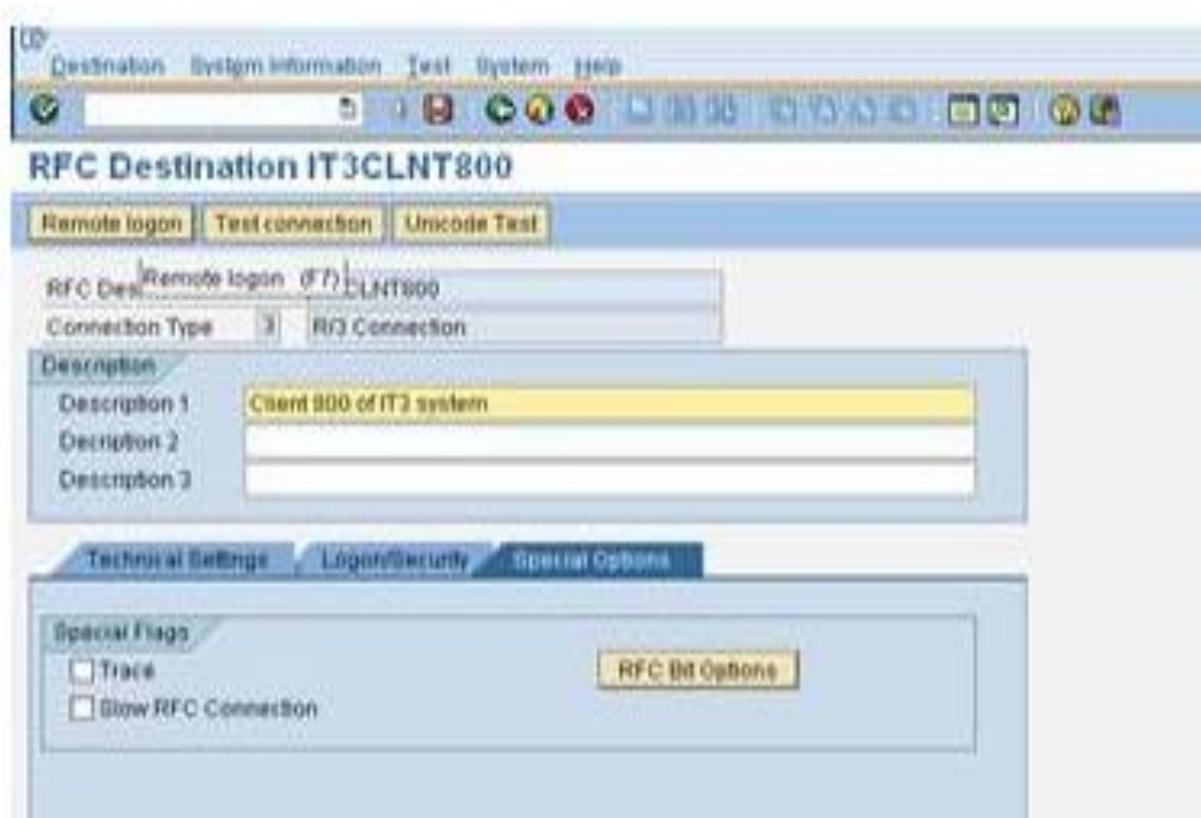
- Now click on Test Connection button



- It shows the connection log in next screen



- Click on Remote Logon Button



- Depends upon your settings the destination client will open. If you check the Current user option under Logon/ Security tab, then it will show the screen directly without asking the user name and password details.

RFC Destination IT3CLNT800

Remote logon | Test connection | Unicode Test

RFC Destination: IT3CLNT800
Connection Type: R/3 Connection

Description:
Description 1: Client 800 of IT3 system
Description 2:
Description 3:

Technical Settings | Logon/Security | Special Options

Security Options
Trusted System: Yes No Login Screen
 PPS ENC Inactive Active

Authorization for Destination: []

Logon
Language: EN
Client: 000
User: [] Current User

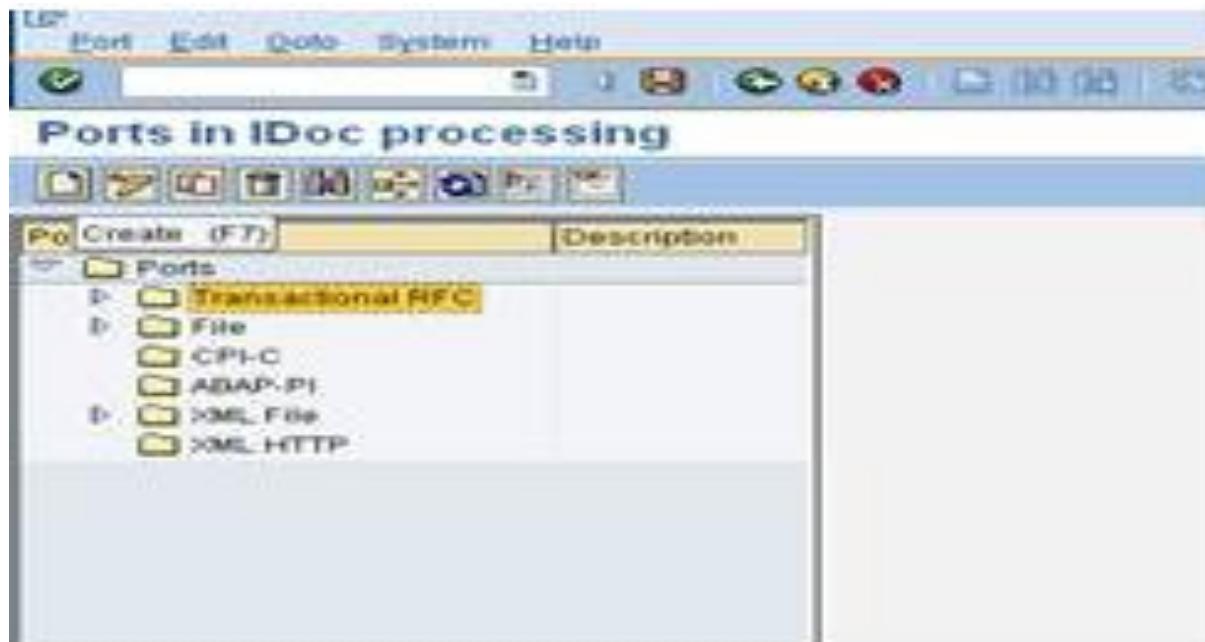
SAP R/3 System

Start SAP Easy Access

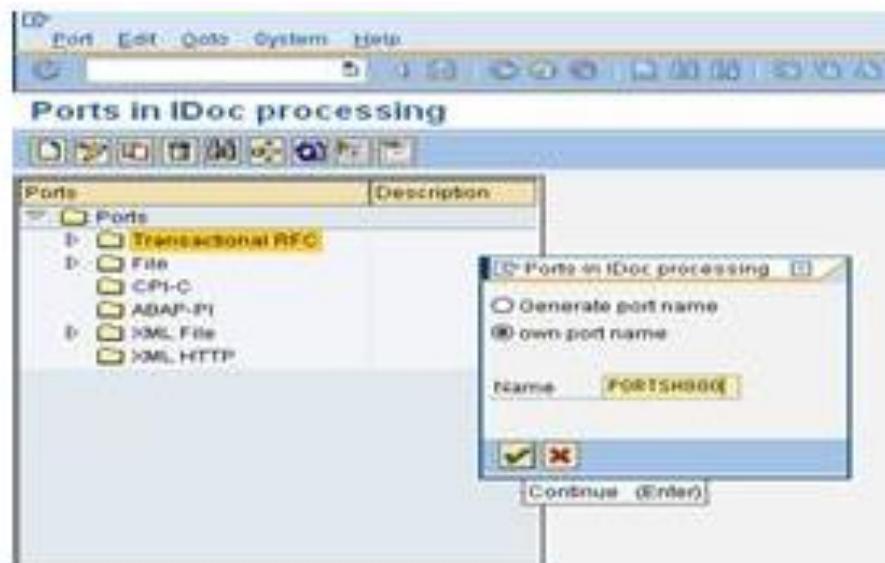
SAPTechnical.COM

System: IT3 (02) 000
Client: 000
User: SHANKAR
Program: SAPMSYST

- **Creating RFC ports:**
- Go to TCODE WE21
- Select the Transactional RFC in left side tree and click on Create button



- In dialog box you can select either Generate port name or own port name. If you select Generate Port name system will generate automatically. Here I selected Own port name. Click on continue.



- Specify the description and RFC destination name.



Click on Save.

- Repeat the same above process in other client. By using opposite client instead of 800 specify 810.

- **In Client 800 steps:**
- **Creating table structure:**
- Go to TCODE SE11.
- Specify table name as ZSTUDENTS.
- In Delivery and Maintenance tab set attributes as “Display Maintenance Allowed”
- The table fields are

Dictionary: Maintain Table

Transp. Table: ZSTUDENTS Active
Short Text: Student Details

Attributes Delivery and Maintenance Fields Entry Help/Check Currency/Quantities Fields

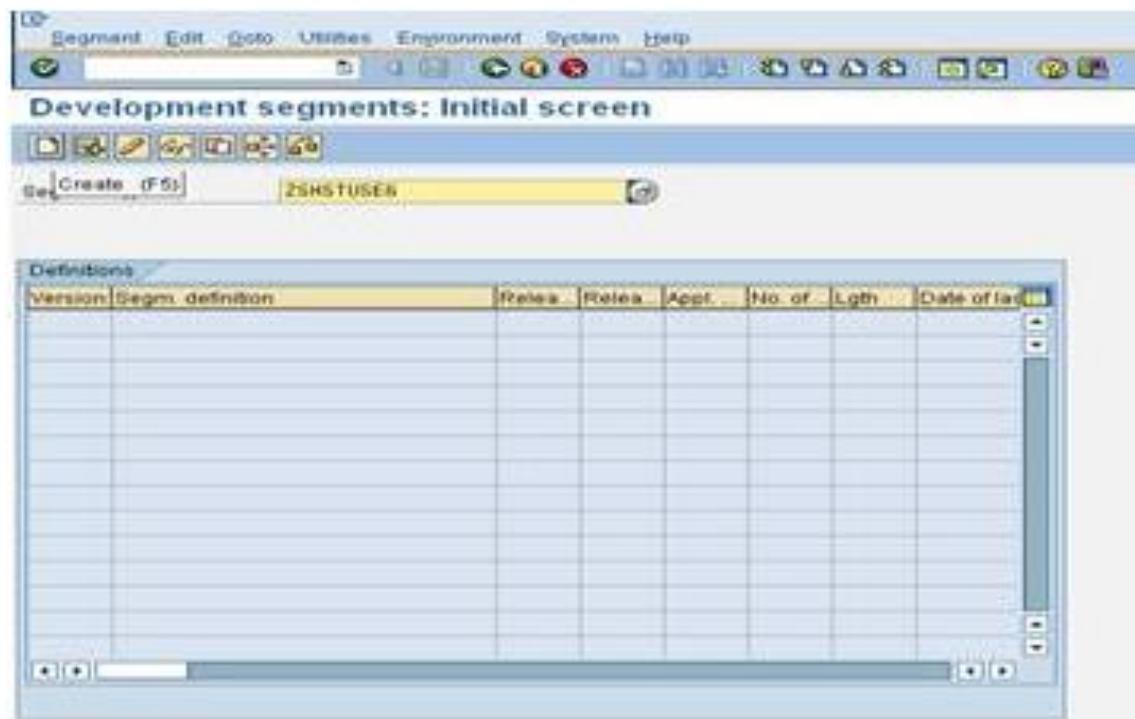
Field	Data Type	Length	Deci	Short Text
MANDT	CLNT	3	0	Client
ZSTUID	NUMC	9	0	Personnel number
ZNAME	CHAR	40	0	Last Name

⇒ Insert some records in table.

Data Browser: Table ZSTUDENTS Select Entries 5

MANDT	ZSTUID	ZNAME
999	1000	shankar
999	1001	Raj
999	1002	srinivas
999	1003	Aditya
999	1004	Shankar Reddy

- **Creating IDOC Segments:**
- Go to TCODE WE31.
- Specify a name and Click on Create Button.

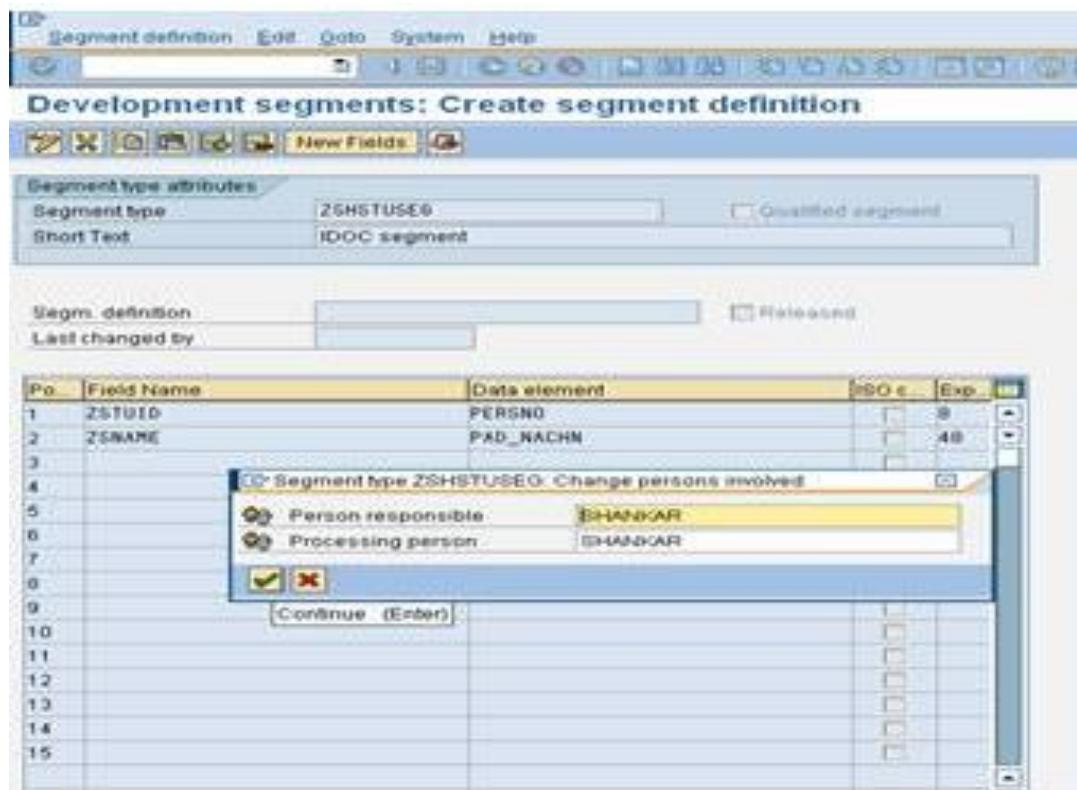


- Here specify all the ZSTUDENTS table fields and their types as shown below.

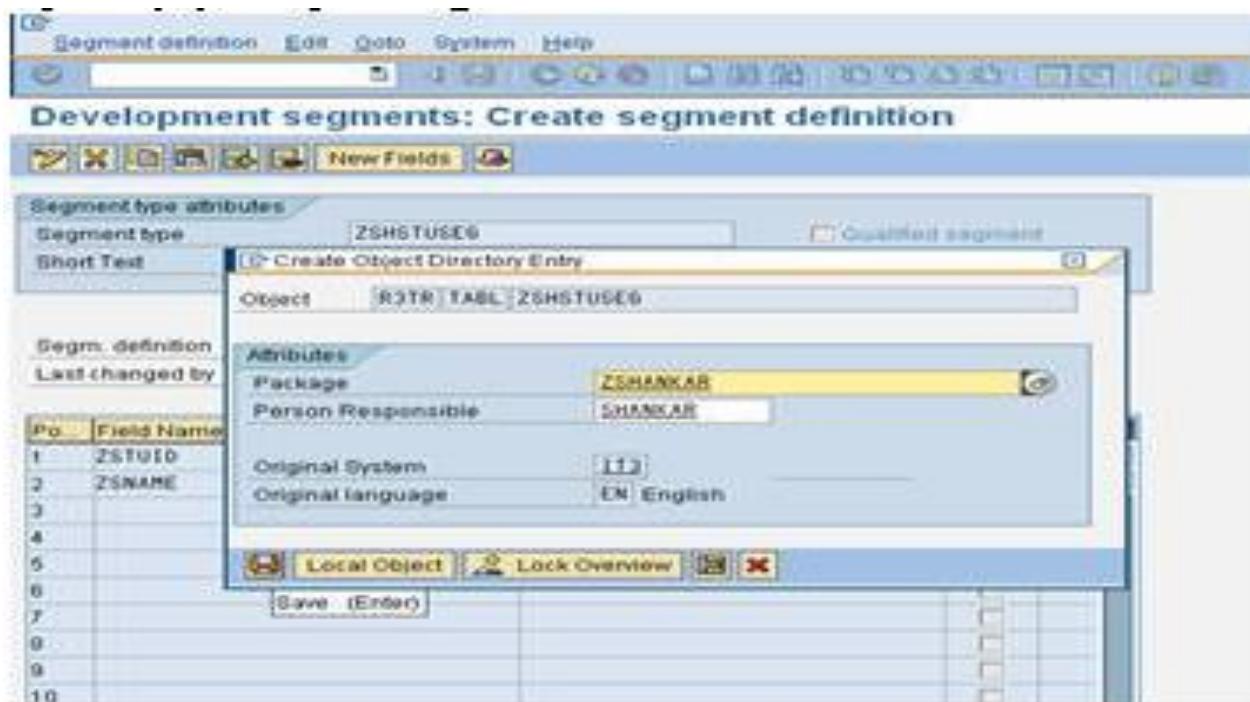
The screenshot shows the SAP Development segments interface for creating a segment definition. The title bar reads "Development segments: Create segment definition". The segment type is set to "ZSHSTUSES" and the short text is "IDOC segment". The segment definition is named "ZSHSTUSES" and is marked as "Released". The last changed by field is empty. The main area displays a table of fields:

Po	Field Name	Data element	IEO 6	Exp.
1	ZSTUID	PERSNO	<input type="checkbox"/>	8
2	ZNAME	FAD_NACHN	<input type="checkbox"/>	40
3			<input type="checkbox"/>	
4			<input type="checkbox"/>	
5			<input type="checkbox"/>	
6			<input type="checkbox"/>	
7			<input type="checkbox"/>	
8			<input type="checkbox"/>	
9			<input type="checkbox"/>	
10			<input type="checkbox"/>	
11			<input type="checkbox"/>	
12			<input type="checkbox"/>	
13			<input type="checkbox"/>	
14			<input type="checkbox"/>	
15			<input type="checkbox"/>	

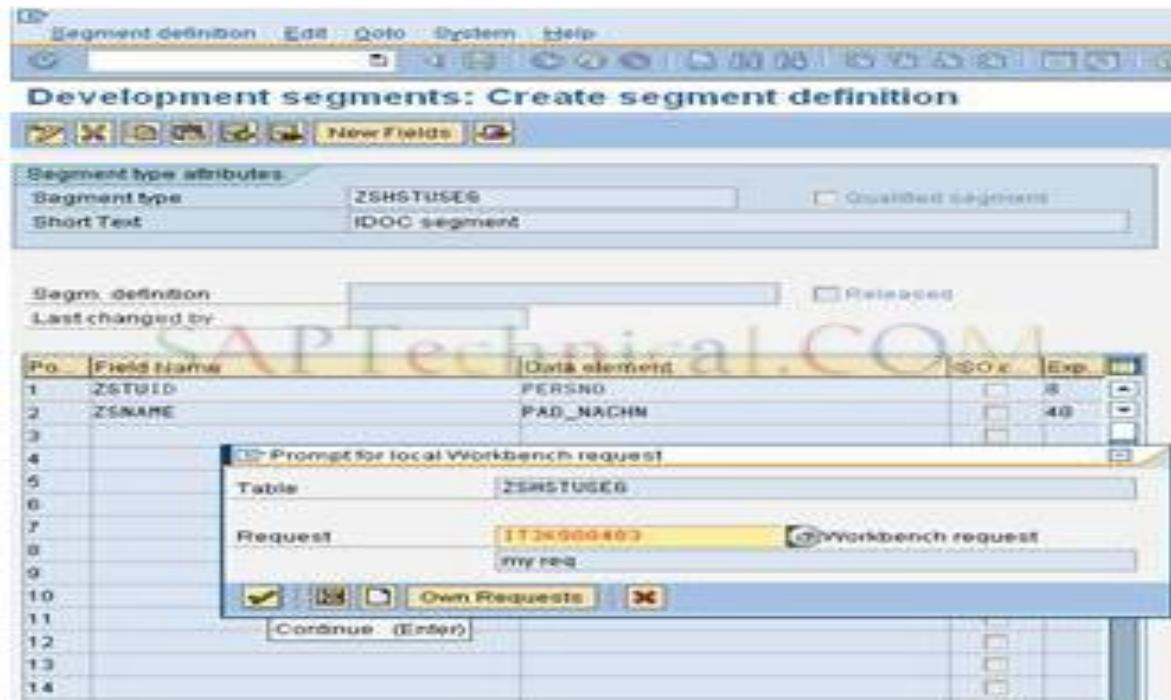
- Click on SAVE button, then it will show dialog box with user name, press continue.



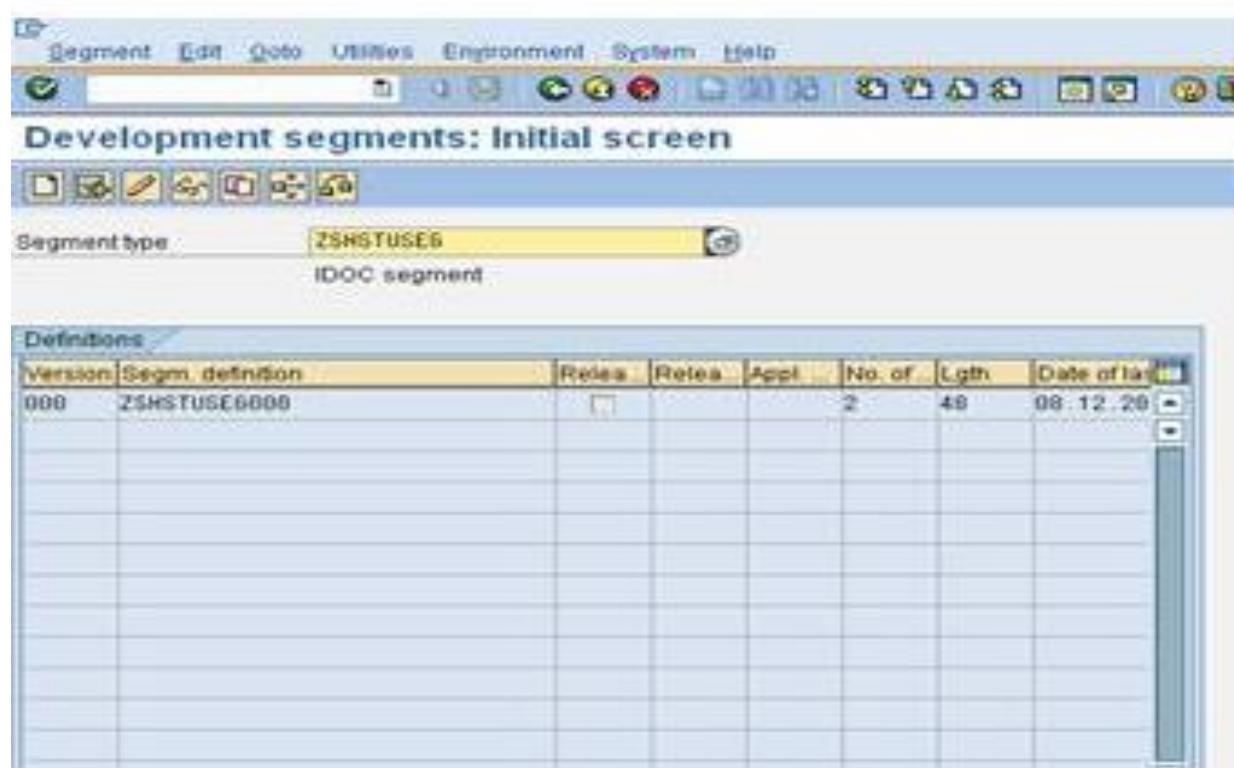
- Specify your package name and click on save.



- Specify your request and press “Continue”.



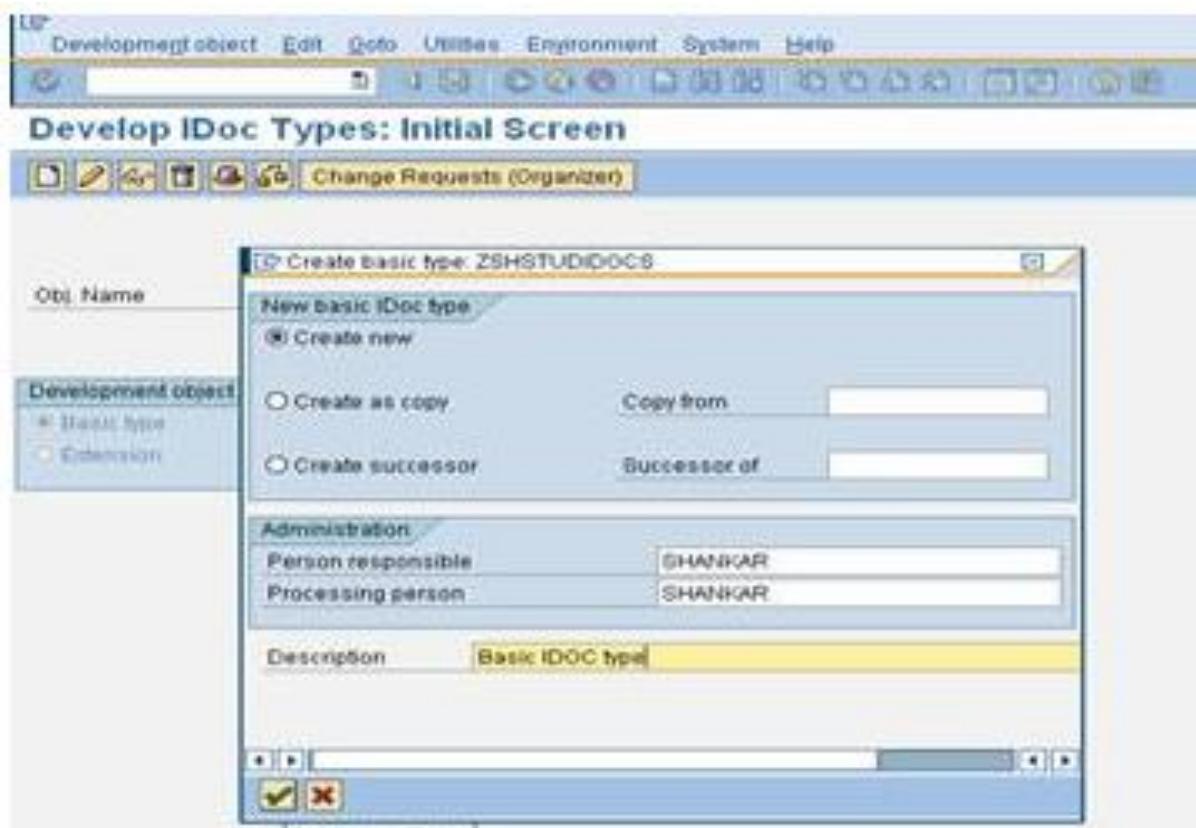
- Click on Back button, and then you will see the created segment.



- **Creating Basic IDOC Type:**
- Go to TCODE WE30
- Specify a name to your IDOC and click on create button.



- In next dialog box select create new option and specify the description of IDOC and click on continue.



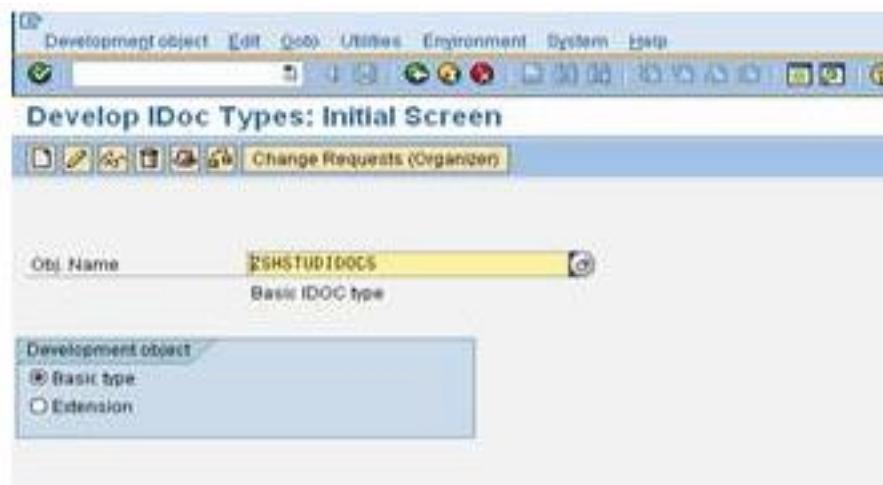
- Click on Create segment in the screen.



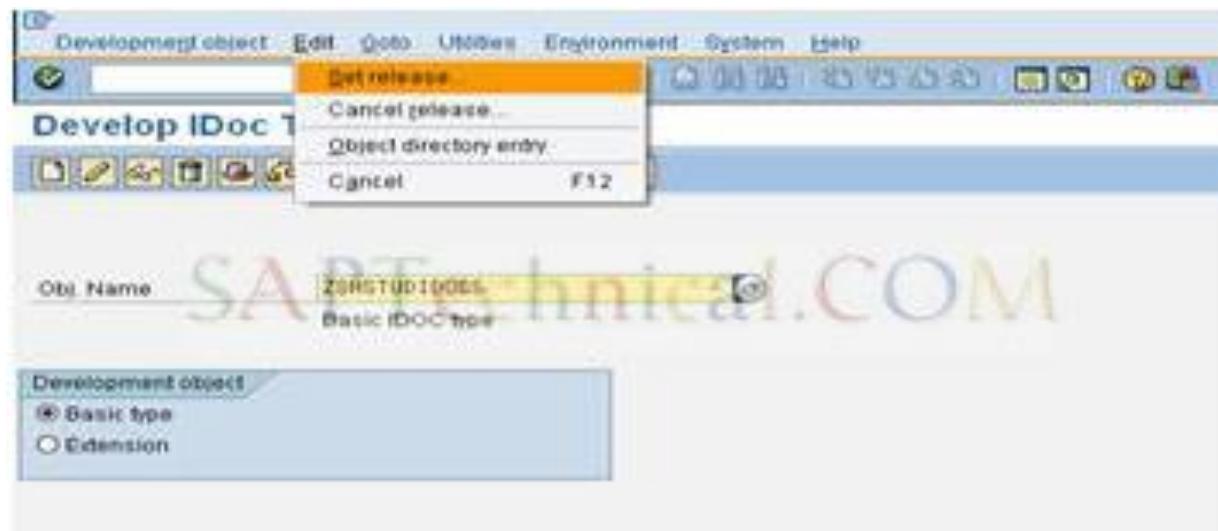
- In dialog box specify the segment name which you created and check mandatory check box.



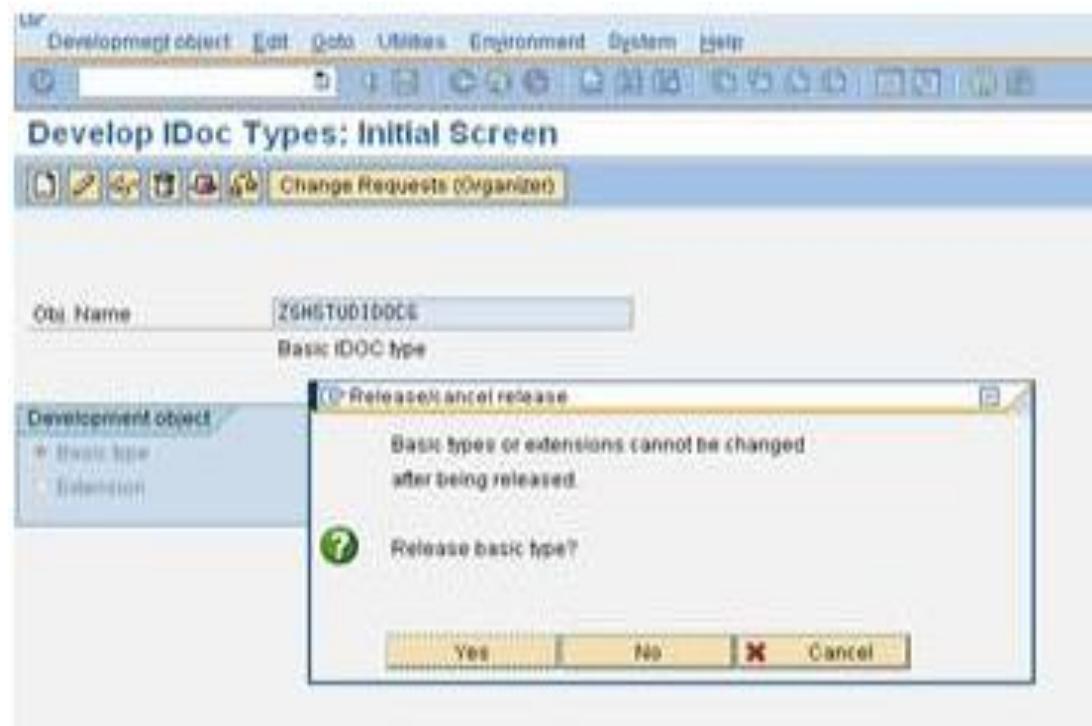
- Click on SAVE and BACK button.



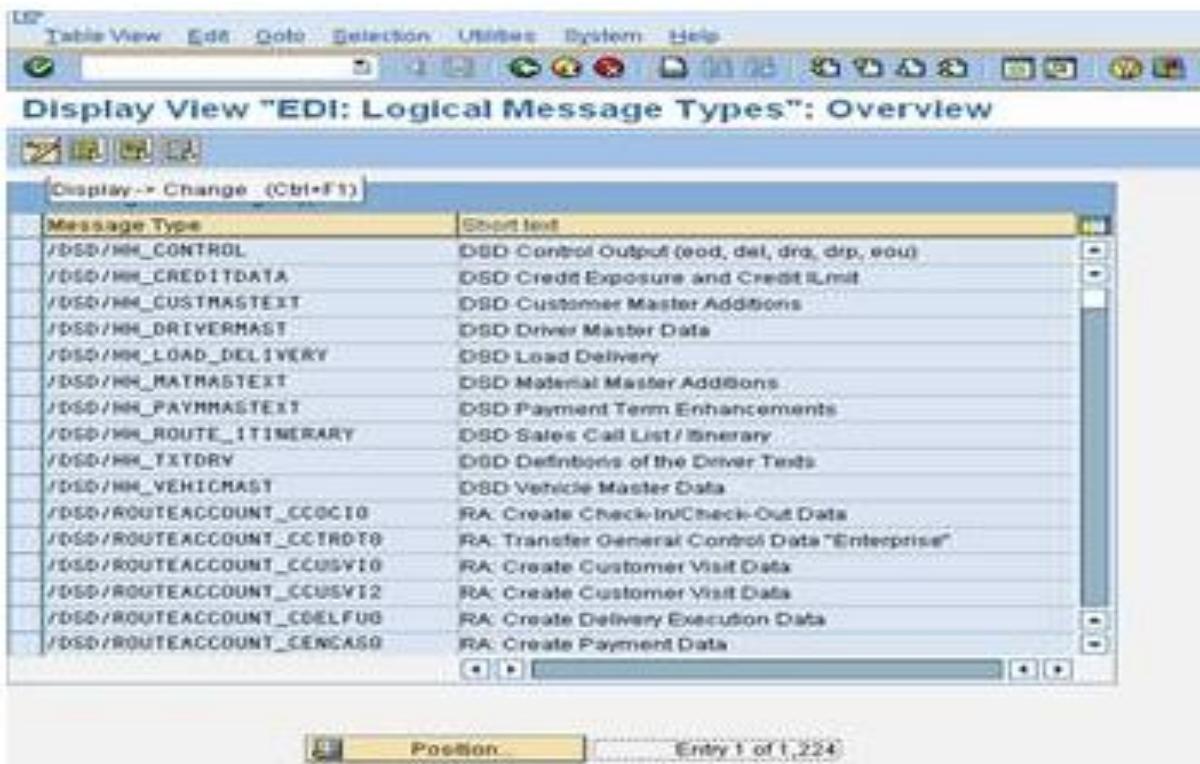
- Go to menu EDIT ->Click Set Release



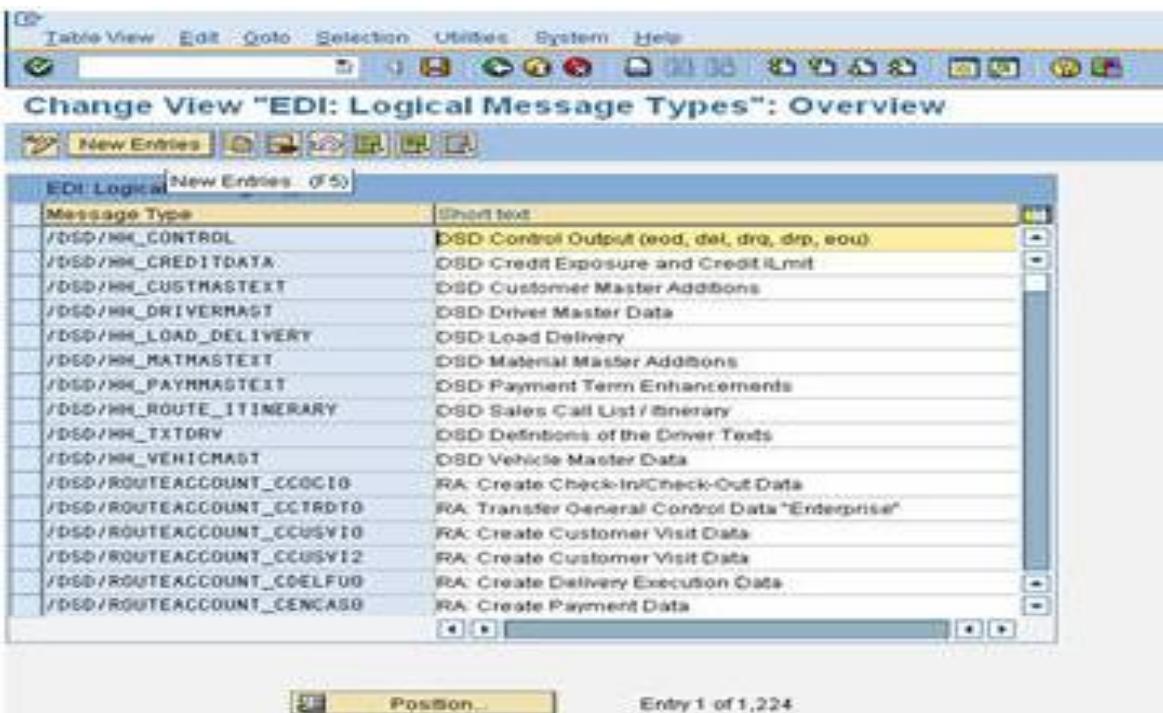
- In next dialog box, click on Yes.



- **Creating Message Type:**
- Go to TCODE WE81.
- Click on Display / Change button.



- Click on New Entries button.

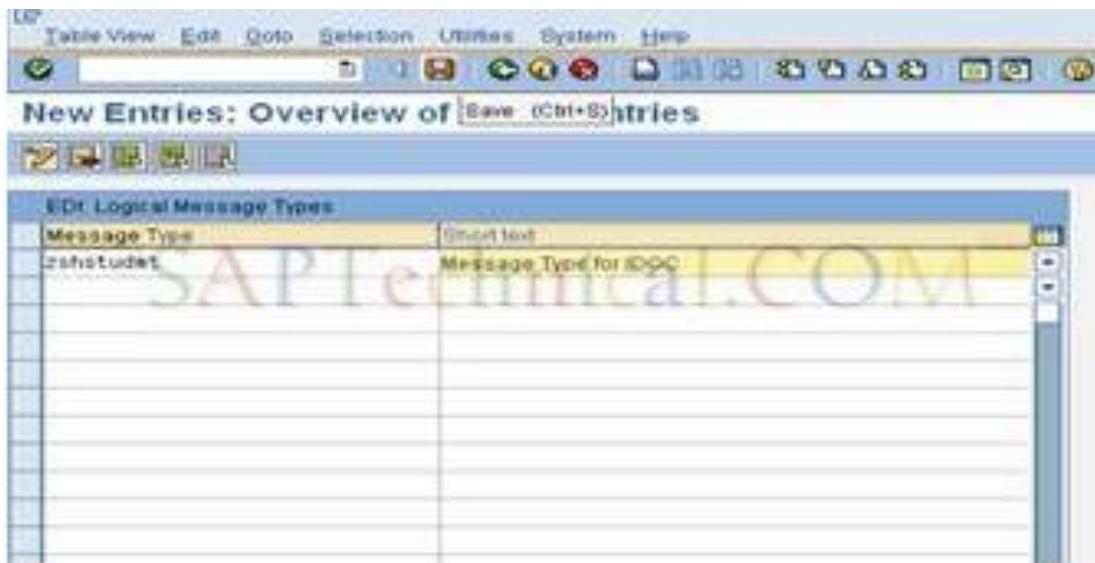


The screenshot shows a SAP application window titled "Change View "EDI: Logical Message Types": Overview". At the top, there is a toolbar with various icons. Below the toolbar, a menu bar includes "Table View", "Edit", "Goto", "Selection", "Utilities", "System", and "Help". A status bar at the bottom displays "Position..." and "Entry 1 of 1,224".

The main area contains a table with two columns: "Message Type" and "Short text". The table lists 22 entries, each with a small icon to its left. The first entry, "/DSD/MM_CONTROL", is highlighted with a yellow background. The table has horizontal and vertical scroll bars on the right and bottom respectively.

Message Type	Short text
/DSD/MM_CONTROL	DSD Control Output (eod, del, drq, drp, eou)
/DSD/MM_CREDITDATA	DSD Credit Exposure and Credit Ilimit
/DSD/MM_CUSTMASTERTEXT	DSD Customer Master Additions
/DSD/MM_DRIVERMASTER	DSD Driver Master Data
/DSD/MM_LOAD_DELIVERY	DSD Load Delivery
/DSD/MM_MATERIALMASTERTEXT	DSD Material Master Additions
/DSD/MM_PAYMENTMASTERTEXT	DSD Payment Term Enhancements
/DSD/MM_ROUTE_ITINERARY	DSD Sales Call List / Itinerary
/DSD/MM_TXTDRV	DSD Definitions of the Driver Texts
/DSD/MM_VEHICLEMASTER	DSD Vehicle Master Data
/DSD/ROUTEACCOUNT_CCOC10	RA: Create Check-In/Check-Out Data
/DSD/ROUTEACCOUNT_CCTRDTO	RA: Transfer General Control Data "Enterprise"
/DSD/ROUTEACCOUNT_CCUSV10	RA: Create Customer Visit Data
/DSD/ROUTEACCOUNT_CCUSV12	RA: Create Customer Visit Data
/DSD/ROUTEACCOUNT_COELF00	RA: Create Delivery Execution Data
/DSD/ROUTEACCOUNT_CENCAS0	RA: Create Payment Data

- Specify a message type name and Description and click on SAVE button.



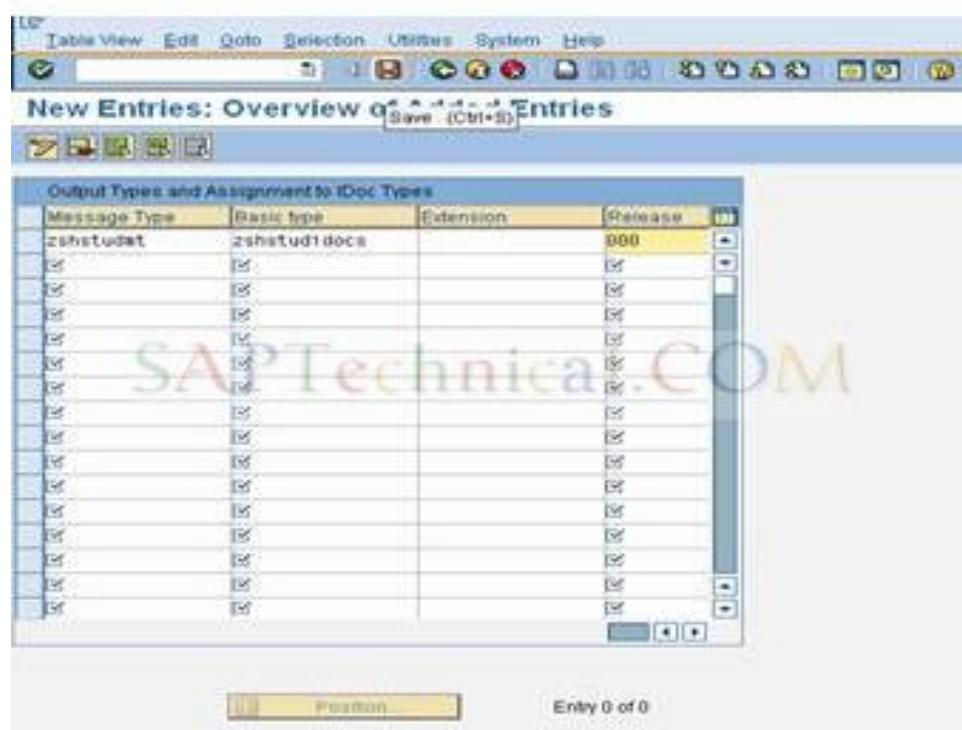
Click on Back and Save

- Assign Message Type to Basic IDOC Type:
- Go to TCODE WE82
- Click on Display / Change Button

The screenshot shows a SAP application window titled "Display View 'Output Types and Assignment to IDoc Types': Overview". The window has a toolbar at the top with various icons. Below the toolbar is a menu bar with "Table View", "Edit", "Quto", "Selection", "Utilities", "System", and "Help". The main area contains a table with four columns: "Message_Type", "Basic type", "Extension", and "Release". The table lists numerous entries, mostly starting with "/DSD/HH_". The "Basic type" column consistently shows "/DSD/HH_CONTROL". The "Extension" and "Release" columns show values like 460 and 620. At the bottom of the table, there are navigation buttons for "First", "Previous", "Next", and "Last". Below the table, a status bar shows "Position" and "Entry 1 of 1,402".

Message_Type	Basic type	Extension	Release
/DSD/HH_CONTROL	/DSD/HH_CONTROL		460
/DSD/HH_CONTROL	/DSD/HH_CONTROL		620
/DSD/HH_CREDITID	/DSD/HH_CREDITID		460
/DSD/HH_CUSTMAS	/DSD/HH_CUSTMAS		460
/DSD/HH_CUSTMAS	/DSD/HH_CUSTMAS		620
/DSD/HH_DRIVERM	/DSD/HH_DRIVERM		460
/DSD/HH_DRIVERM	/DSD/HH_DRIVERM		620
/DSD/HH_LOAD_DE	DELVRY03		460
/DSD/HH_MATTRAST	/DSD/HH_MATTRAST		460
/DSD/HH_PAYMAS	/DSD/HH_PAYMAS		460
/DSD/HH_ROUTE_I	/DSD/HH_ROUTE_I		460
/DSD/HH_ROUTE_I	/DSD/HH_ROUTE_I		620
/DSD/HH_TXTDRY	/DSD/HH_TXTDRY01		460
/DSD/HH_VEHICMA	/DSD/HH_VEHICMA		460
/DSD/HH_VEHICMA	/DSD/HH_VEHICMA		620
/DSD/ROUTEACCOU	/DSD/ROUTEACCOU		620

- Click on New Entries, Specify the Message Type and Basic IDOC Type and Release version. Click on Save.

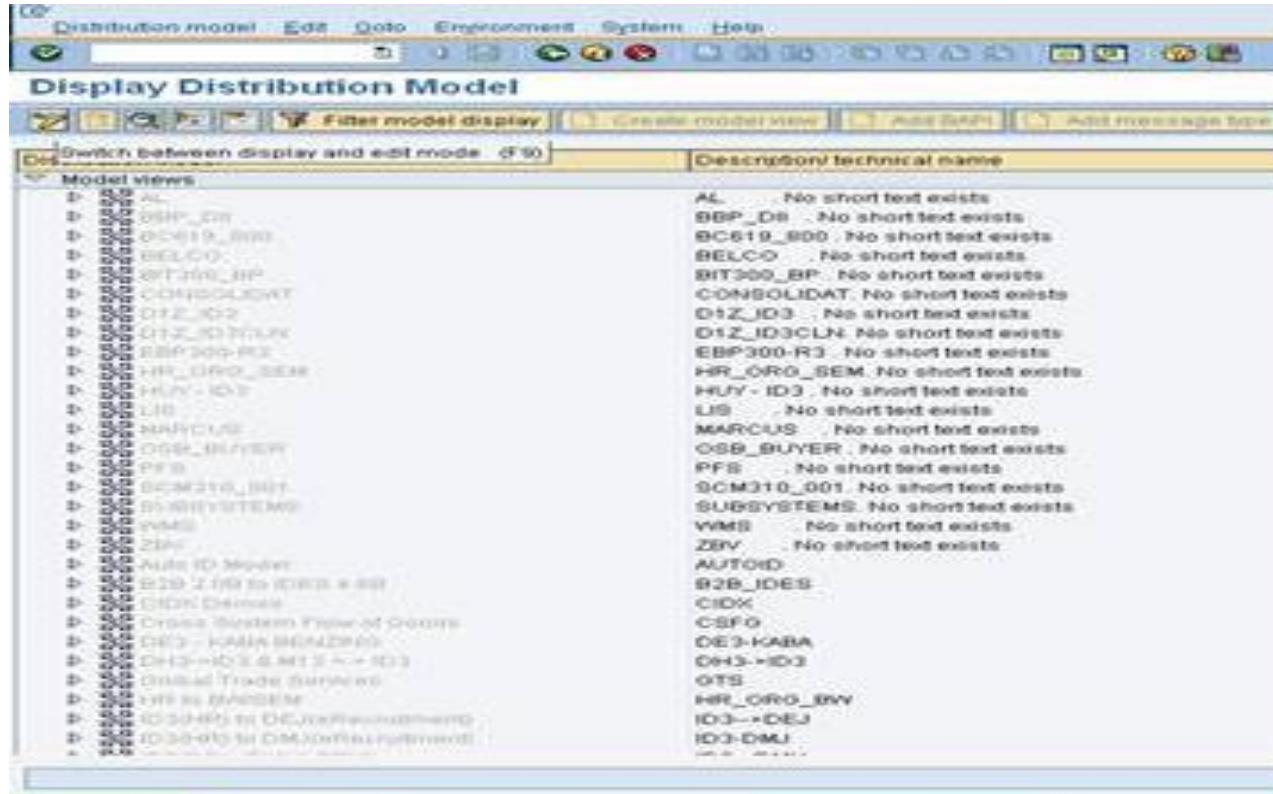


[Click on Back.](#)

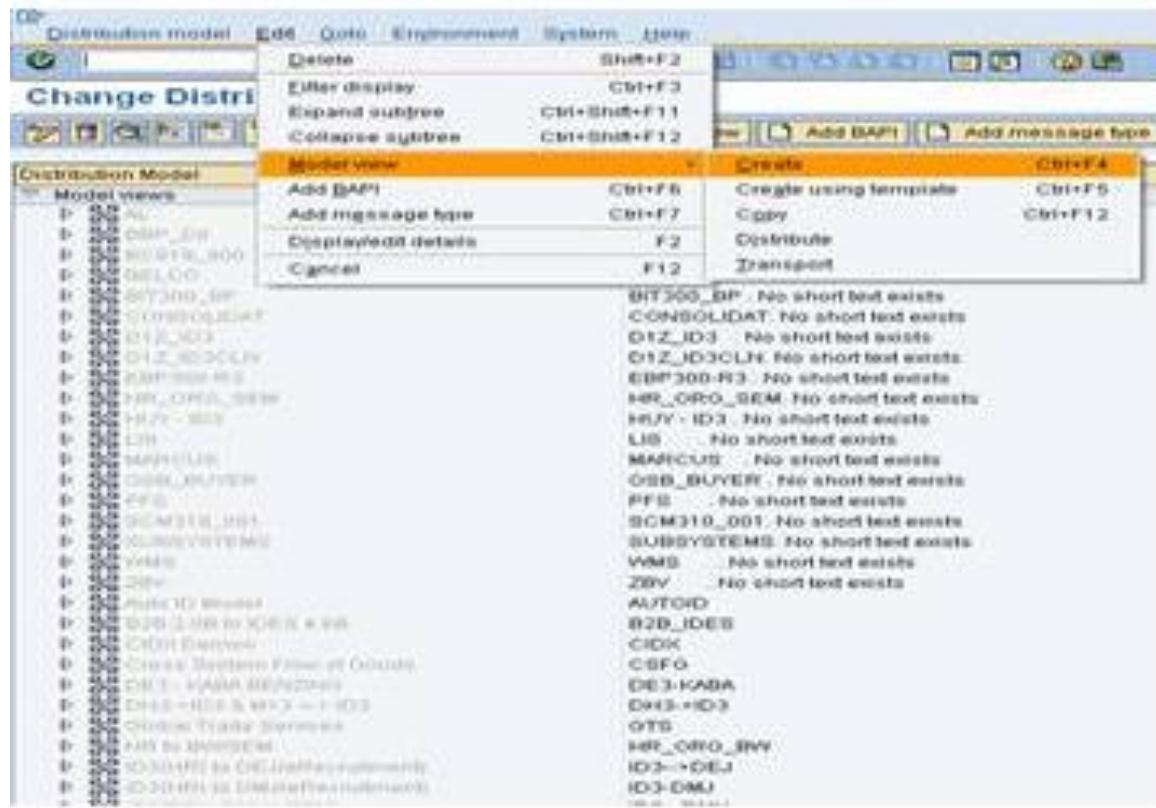
Note:

- ⇒ Here the Release version you can find in this way

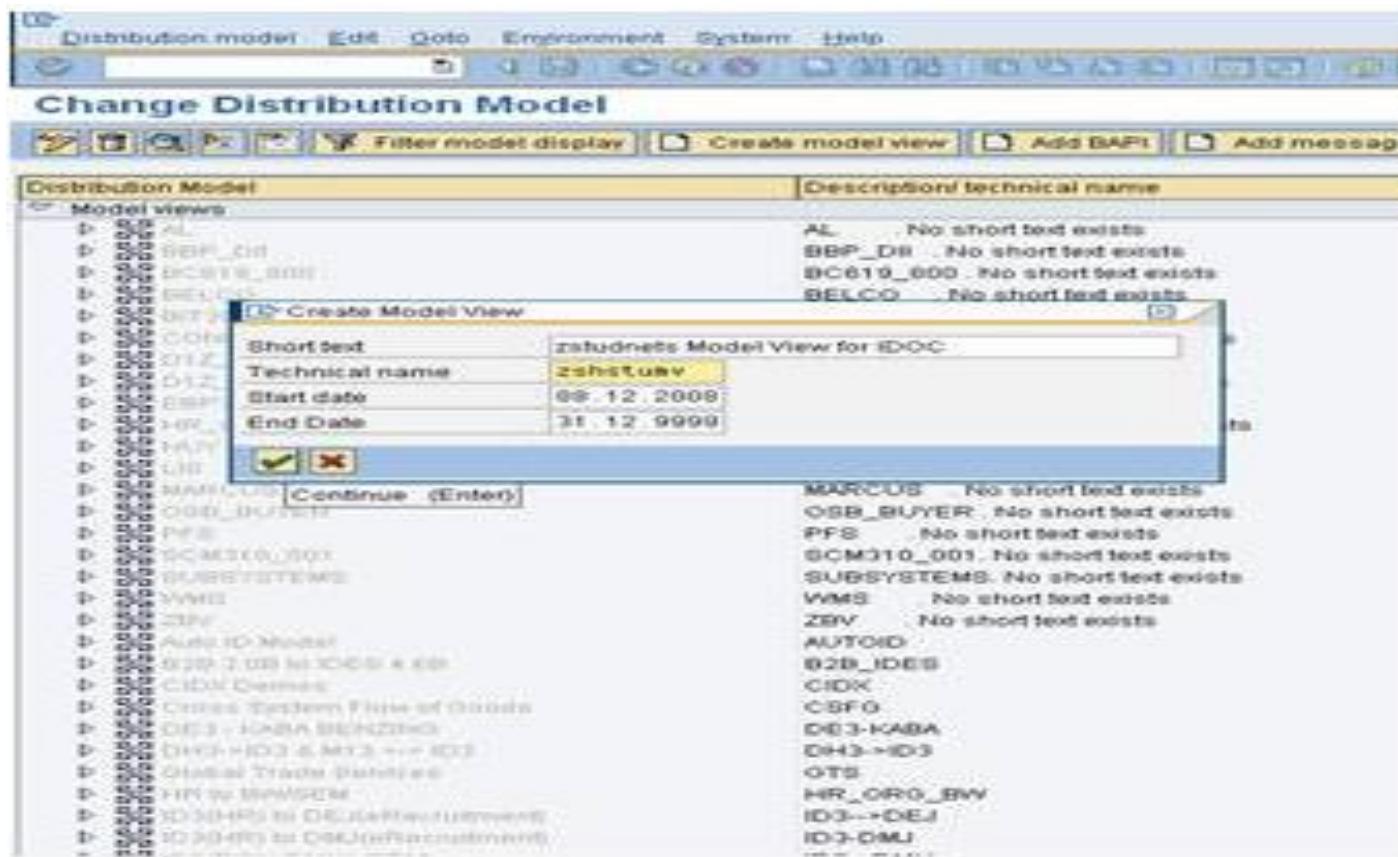
- **Creating Model View and Distributing and Generating Partner profile:**
- Go to TCODE BD64
- Click on Display/ Change button



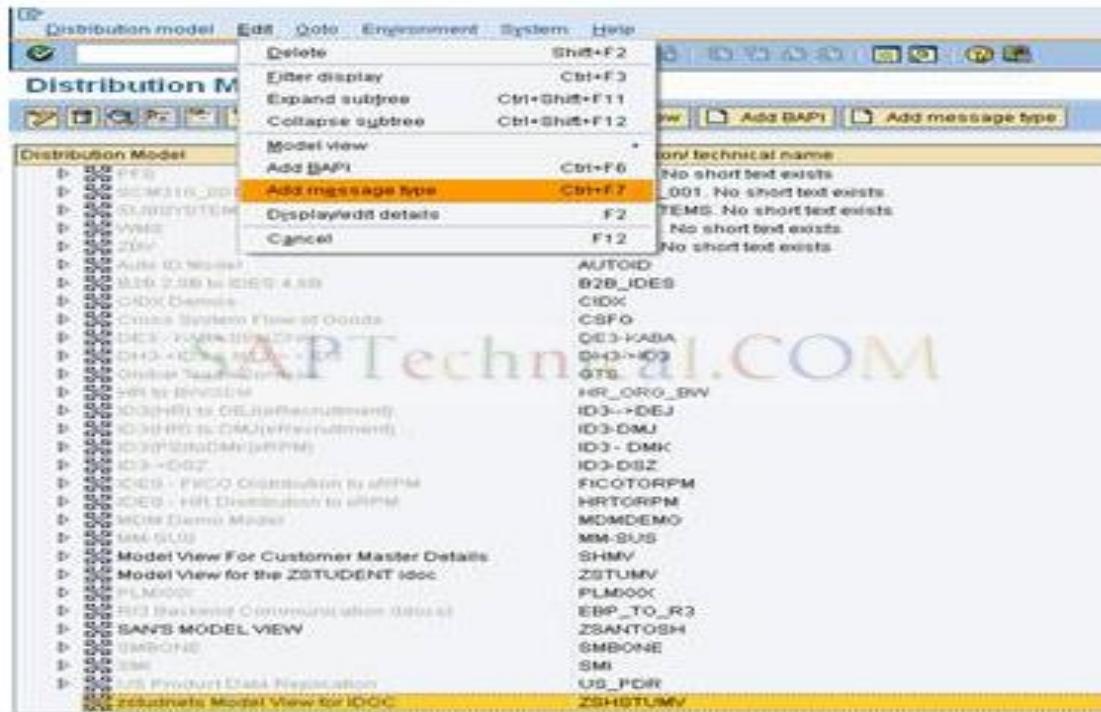
- Click on Edit menu -> Model View -> Create



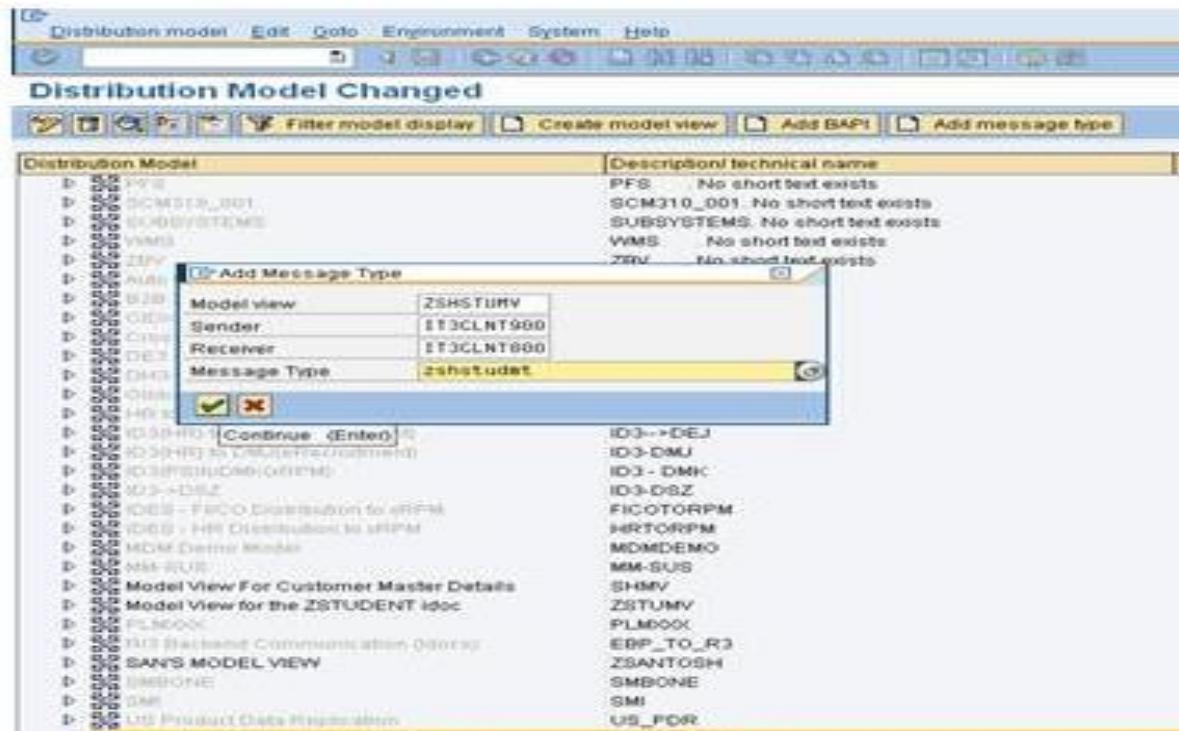
- Specify description of model view and technical name in dialog box and press continue.



- Select your model view and click on Edit menu -> Add Message type



- In dialog box specify the sender, receiver, message type and click on continue.



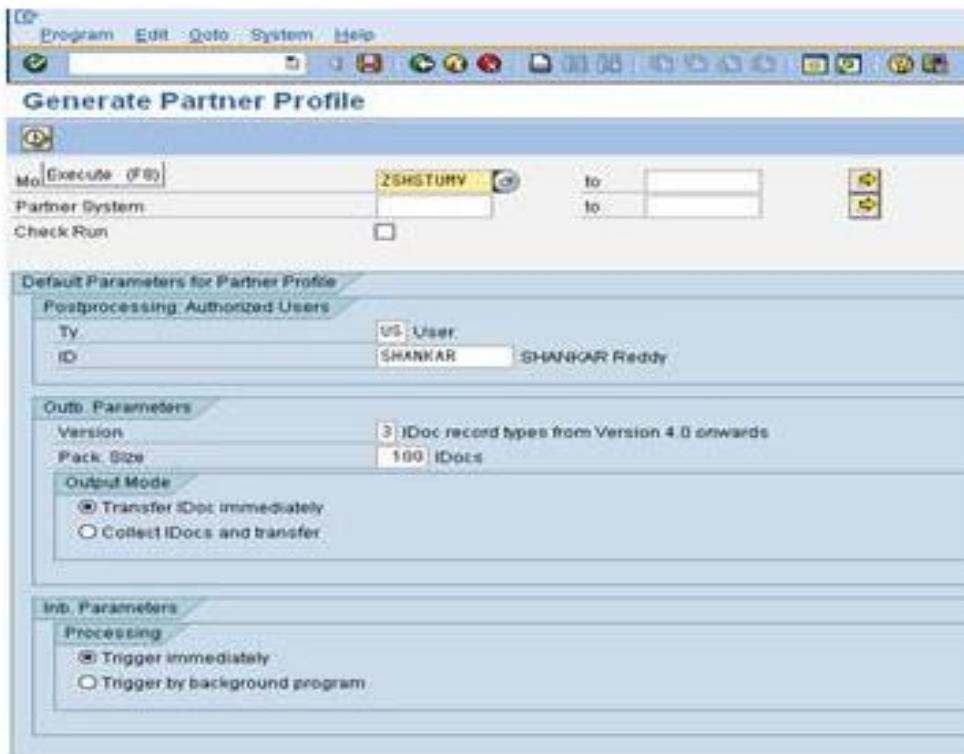
- Now your Model View looks like

Distribution Model	Description/technical name
ZSHSTUMV	ZSHSTUMV
IT3CLNT900	IT3CLNT900
IT3CLNT800	IT3CLNT800
ZSHSTUDMT	Message Type for IDOC

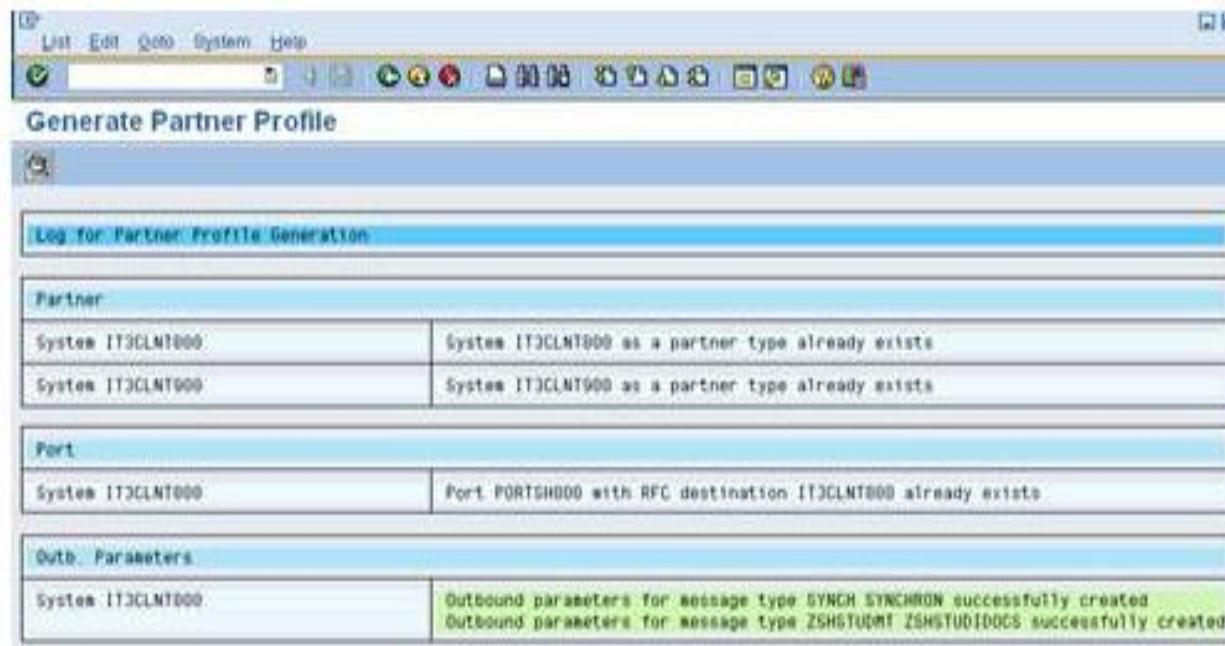
- Click on Environment Menu -> Generate Partner profile



- It will show the following screen, click on execute.



- It will show the partner profile log in next screen.



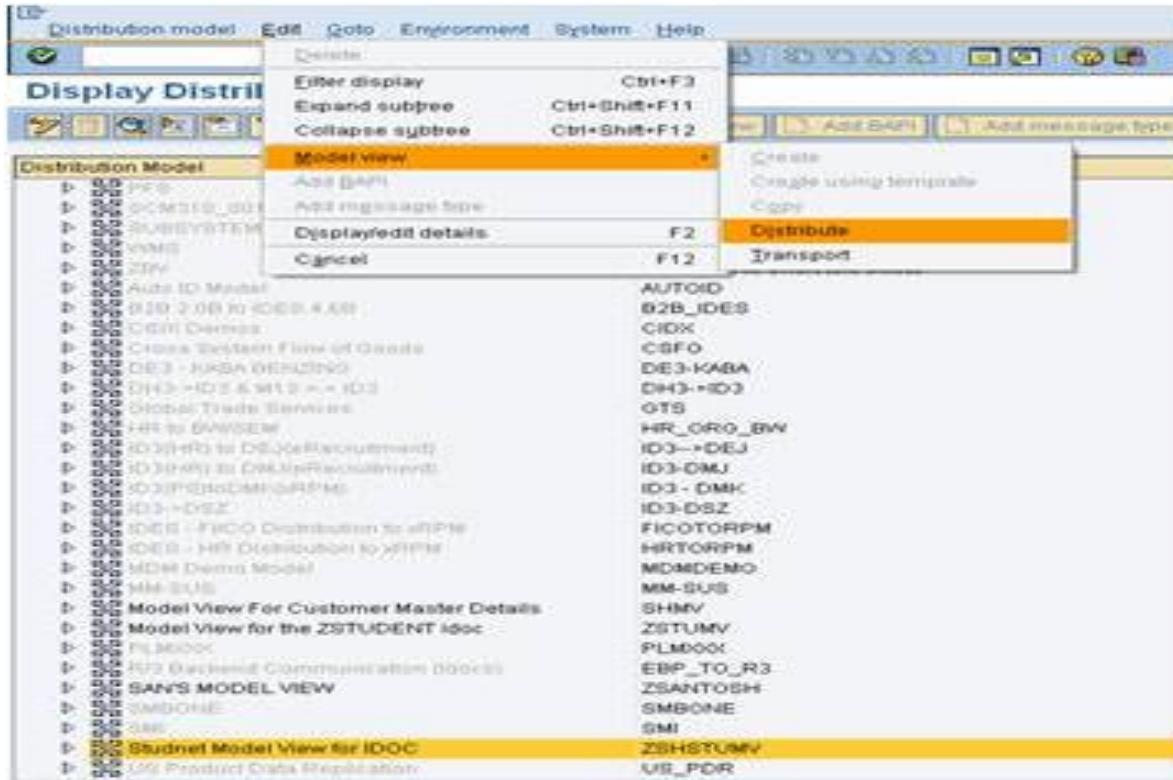
- Click on Back button 2 times, it will take back to Distribution Model screen.



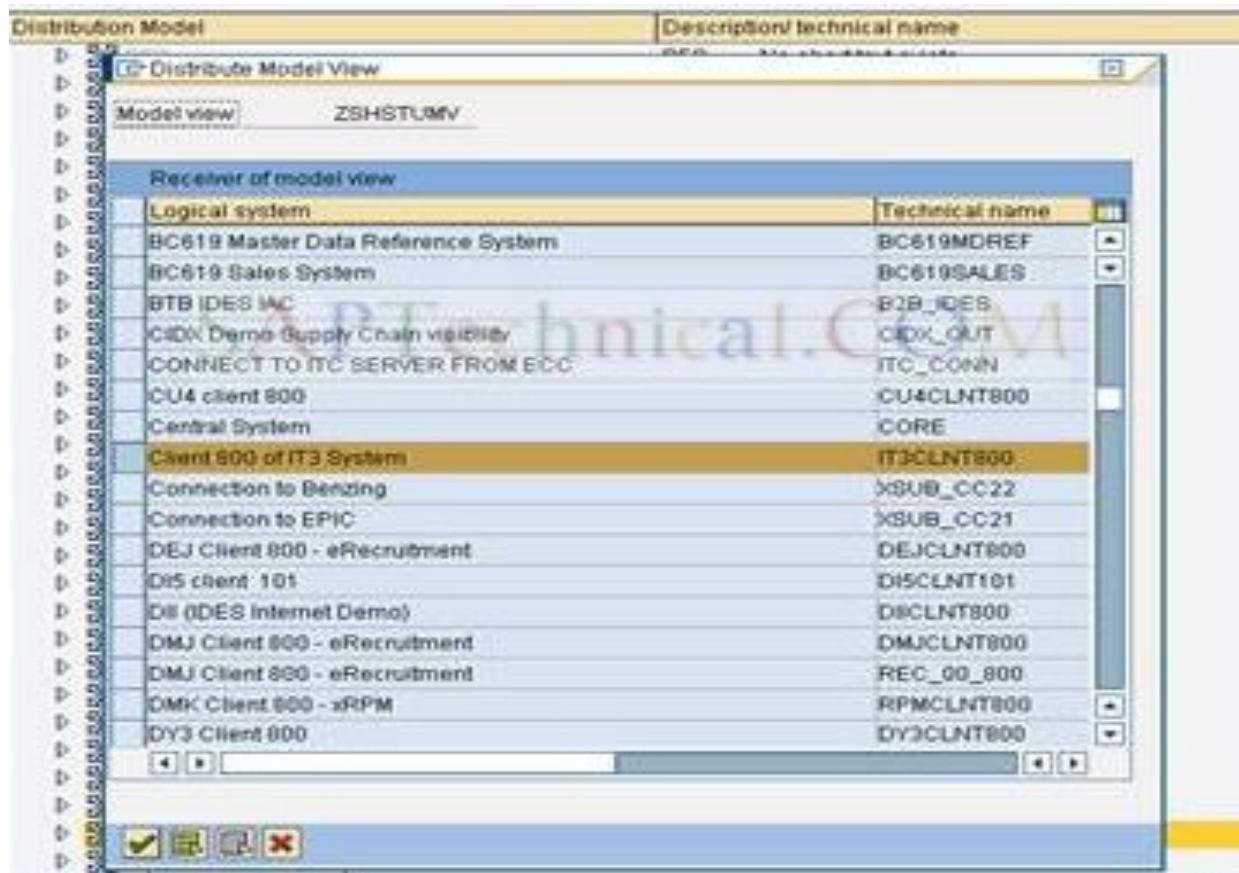
The screenshot shows a SAP application window titled "Display Distribution Model". The menu bar includes "Distribution model", "Edit", "Data", "Environment", "System", and "Help". Below the menu is a toolbar with icons for search, filter, and various actions. The main area is a table with two columns: "Distribution Model" and "Description/technical name". The table lists numerous distribution models, each with a small icon and a short text description. One row, "Student Model View for IDOC", is highlighted with a yellow background. The table has a header row and approximately 30 data rows.

Distribution Model	Description/technical name
PFS	No short text exists
SCM310_001	SCM310_001. No short text exists
SUBSYSTEMS	SUBSYSTEMS. No short text exists
VMS	No short text exists
ZBV	ZBV. No short text exists
AUTOID	AUTOID
B2B_J_DES	B2B_J_DES
CICK	CICK
CBFG	CBFG
DE3-KABA	DE3-KABA
DE3->ID3	DE3->ID3
OTS	OTS
HR_ORG_BW	HR_ORG_BW
ID3->DEJ	ID3->DEJ
ID3-DMJ	ID3-DMJ
ID3-DSZ	ID3-DSZ
FICOTORPM	FICOTORPM
HRTORPM	HRTORPM
MDMDEMO	MDMDEMO
MM-SUB	MM-SUB
SHMV	SHMV
ZSTUMV	ZSTUMV
PLM001	PLM001
EBP_TO_R3	EBP_TO_R3
ZBANTOSH	ZBANTOSH
SMBONE	SMBONE
SMI	SMI
ZSHSTUMV	ZSHSTUMV
US_PDR	US_PDR

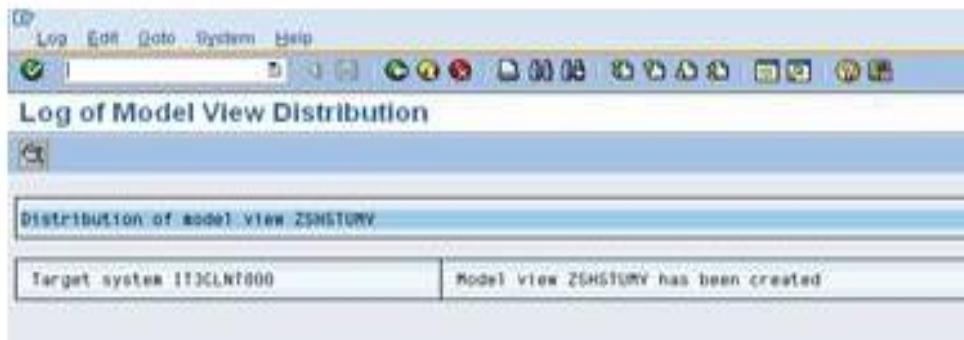
- Click on Edit Menu -> Model View -> Distribute.



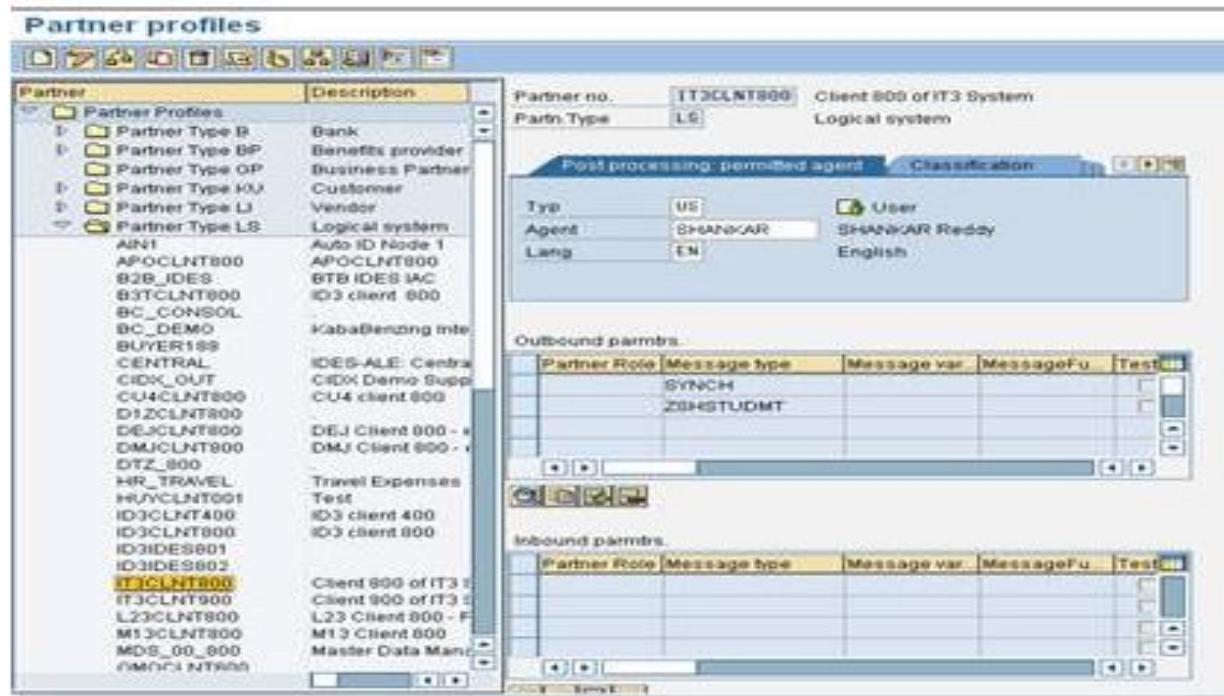
- In displayed dialog box select the partner system and click continue



- Then it will show the Log of Model View Distribution.



- Click on Back button.
- To check partner profile Go to TCODE WE20
- In displayed screen select the partner system in left side tree under Partner Type LS.



- Write a Report Program in SE38 to create IDOC control records and transfer it to destination partner system.
- The following is the program to generate the IDOC control records and process it.
- TABLES : ZSTUD_TAB.

```
DATA : S_CTRL_REC LIKE EDIDC, "IDOC CONTROL RECORD  
S_ZSUSTUD LIKE ZSUSTUD. " CUSTOMER HEADER DATA
```

```
DATA: T_ZSTUD_TAB LIKE ZSTUD_TAB OCCURS 0 WITH HEADER LINE.
```

```
DATA :T_EDIDD LIKE EDIDD OCCURS 0 WITH HEADER LINE.  
" DATA RECORD
```

```
DATA: T_COMM_IDOC LIKE EDIDC OCCURS 0 WITH HEADER LINE.  
" GENERATED COMMUNICATION IDOC
```

```
CONSTANTS : C_ZSUSTUD LIKE EDIDD-  
SEGNAM VALUE 'ZSUSTUD'.
```

```
CONSTANTS : C_IDOCTP LIKE EDIDC-IDOCTP VALUE 'ZIDOCSU'.
```

- *****SELECTION SCREEN*****

SELECT-OPTIONS : S_STUDID FOR ZSTUD_TAB-
STUDENTID OBLIGATORY.

PARAMETERS : C_MESTYP LIKE EDIDC-
MESTYP DEFAULT 'ZSUMESS',

 "Message Type

 C_RCVPRT LIKE EDIDC-RCVPRT DEFAULT 'LS',

 "Partner Type of Receiver

 C_LOGSYS LIKE EDIDC-RCVPRN DEFAULT 'SUCLNT810',

 " Partner Number of Receiver

 C_RCVPOR LIKE EDIDC-RCVPOR DEFAULT 'A000000066',

 "Receiver port

 C SNDPRN LIKE EDIDC-SNDPRN DEFAULT 'SUCLNT810',

 " Partner Number of Receiver

 C SNDPRT LIKE EDIDC-SNDPRT DEFAULT 'LS'.

 "Partner Type of SENDER

- *****START-OF-SELECTION.
START-OF-SELECTION.
PERFORM GENERATE_DATA_RECORDS.
PERFORM GENERATE_CONTROL_RECORD.
PERFORM SEND_IDOC.

- form GENERATE_DATA_RECORDS .

```
    SELECT * FROM ZSTUD_TAB INTO TABLE T_ZSTUD_
TAB
```

```
        WHERE STUDENTID IN S_STUDID .
```

```
IF SY-SUBRC NE 0.
```

```
MESSAGE 'RECORD NOT FOUND!' TYPE 'E'.
```

```
ENDIF.
```

```
PERFORM ARRANGE_DATA_RECORDS.
```

```
endform.
```

```
    " GENERATE_DATA_RECORDS
```

- form GENERATE_CONTROL_RECORD .
 - S_CTRL_REC-RCVPOR = C_RCVPOR. "Receiver Port
 - S_CTRL_REC-MESTYP = C_MESTYP. "Message type
 - S_CTRL_REC-IDOCTP = C_IDOCTP. "Basic IDOC type
 - S_CTRL_REC-
 - RCVPRT = C_RCVPRT. "Partner type of receiver
 - S_CTRL_REC-
 - RCVPRN = C_LOGSYS. "Partner number of receiver
 - S_CTRL_REC-
 - SNDPRT = C SNDPRT. "Sender Partner type
 - S_CTRL_REC-
 - SNDPRN = C SNDPRN. "Sender Partner Number
- endform. " GENERATE_CONTROL_RECOR
- D

- form SEND_IDOC .

```
CALL FUNCTION 'MASTER_IDOC_DISTRIBUTE'
EXPORTING
  master_idoc_control      = S_CTRL_REC
  *  OBJ_TYPE                =
  *  CHNUM                   =
tables
  communication_idoc_control = T_COMM_IDOC
  master_idoc_data          = T_EDID
EXCEPTIONS
  ERROR_IN_IDOC_CONTROL    = 1
  ERROR_WRITING_IDOC_STATUS = 2
  ERROR_IN_IDOC_DATA        = 3
  SENDING_LOGICAL_SYSTEM_UNKNOWN = 4
  OTHERS                     = 5
```

IF sy-subrc <> 0.

* Implement suitable error handling here
ELSE.

COMMIT WORK.

LOOP AT T_COMM_IDOC.

WRITE : /'IDOC GENERATED -', T_COMM_IDOC-DOCTEXT. " IDoc number

ENDLOOP.

ENDIF.

endform. " SEND_IDOC

- form ARRANGE_DATA_RECORDS .

```
DATA : W_INDEX1 LIKE SY-TABIX,  
      W_INDFEX2 LIKE SY-TABIX.
```

```
SORT T_ZSTUD_TAB BY STUDENTID.
```

```
LOOP AT T_ZSTUD_TAB .
```

```
  S_ZSUSTUD-STUDENTID = T_ZSTUD_TAB-STUDENTID.  
  S_ZSUSTUD-STUNAME = T_ZSTUD_TAB-STUNAME.
```

```
  T_EDIDD-SEGNAM = C_ZSUSTUD.
```

```
  T_EDIDD-SDATA = S_ZSUSTUD .
```

```
APPEND T_EDIDD.
```

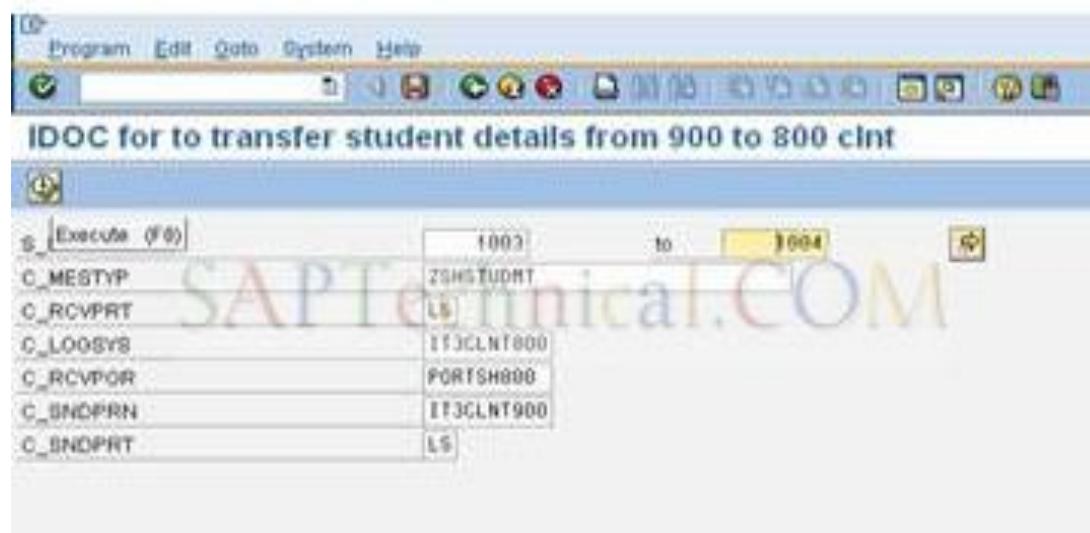
```
CLEAR T_EDIDD.
```

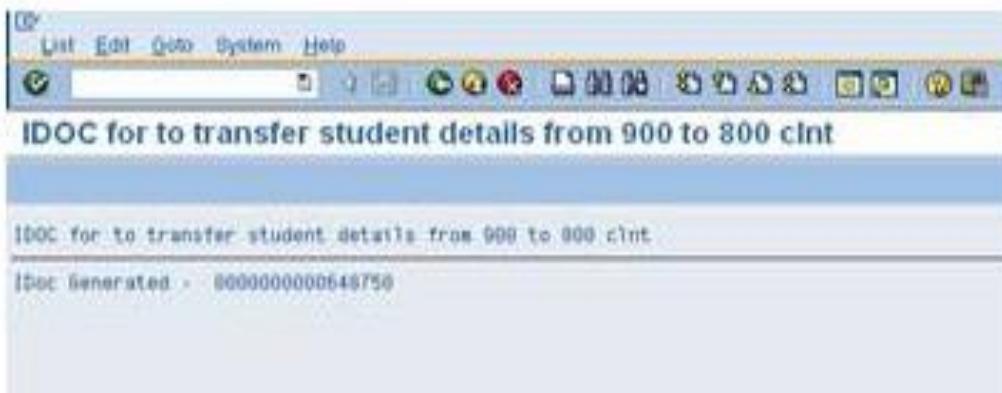
```
CLEAR T_ZSTUD_TAB.
```

```
ENDLOOP.
```

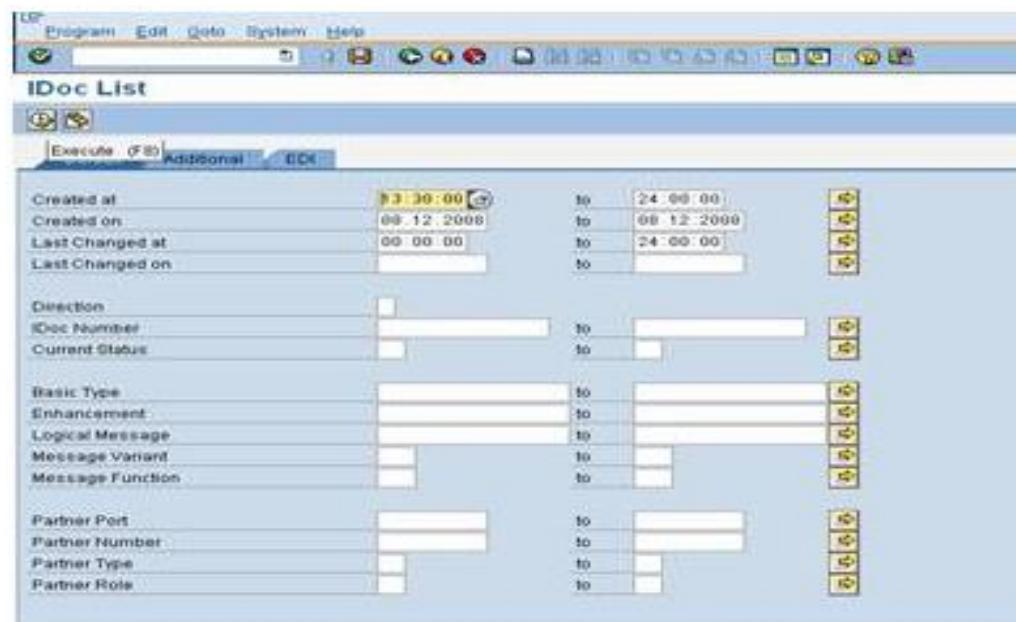
```
endform.           " ARRANGE_DATA_RECORDS
```

- Now execute the program, and specify the range of records to transfer





- Go to TCODE WE02 to check the generated IDOC control records.
- Click on Execute



UF Program Edit Date System Help

Execute (F8) Additional EDS

Created at	13:30:00	to	24:00:00	
Created on	09.12.2008	to	09.12.2008	
Last Changed at	00:00:00	to	24:00:00	
Last Changed on		to		
Direction	<input type="checkbox"/>			
IDoc Number		to		
Current Status	<input type="checkbox"/>	to	<input type="checkbox"/>	
Basic Type		to		
Enhancement		to		
Logical Message		to		
Message Variant	<input type="checkbox"/>	to	<input type="checkbox"/>	
Message Function	<input type="checkbox"/>	to	<input type="checkbox"/>	
Partner Port		to		
Partner Number		to		
Partner Type	<input type="checkbox"/>	to	<input type="checkbox"/>	
Partner Role	<input type="checkbox"/>	to	<input type="checkbox"/>	

SAP

IDoc display

IDoc 000000000649750	
Control Rec	
Data records	Total number: 000002
ZBHSSTUSEO	Segment 000001
ZBHSSTUOED	Segment 000002
Status records	
03	Data passed to port 00
30	IDoc ready for dispatcher
01	IDoc generated

Technical short info

Direction	1	Outbox
Current status	83	OO
Basic type	ZBHSSTU0IDOC5	
Extension		
Message type	ZBHSSTU0MT	
Partner no.	113CLNT000	
Path Type	LS	
Port	PORTSH300	

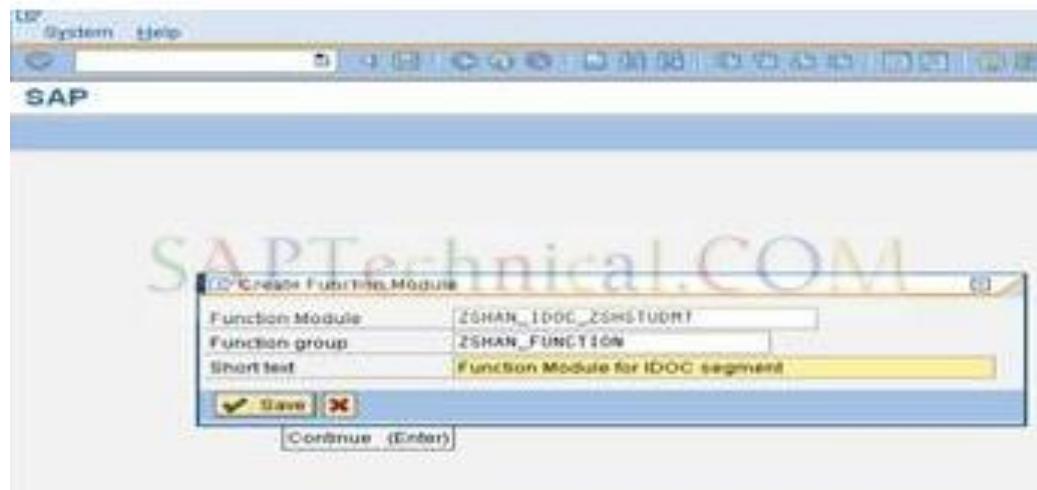
Content of selected segment

Fld name	Fld cont
ZSTUID	00001804
ZSNAME	Shankar Reddy

- **In Client 810 Steps:**
- Function Module Creation:
- Create a Function Module to update the table from the IDOC segments
- Go to SE37
- Specify a name and click on create.



- In dialog box specify function group and description, and click on save.



- Specify the Import parameters in Import tab

The screenshot shows the SAP SE11 interface for defining a function module. The title bar includes standard icons and menu items: Pattern, Pretty Printer, Function Module Docum. Below the title bar, the function module name **ZSHAN_IDOC_ZSHSTUD** is displayed, along with the status **Active**. A navigation bar below the title bar contains tabs: Attributes, Import (which is selected), Export, Changing, Tables, Exceptions, and Source code. Below the navigation bar is a toolbar with several icons. The main area displays a table of parameters:

Parameter Name	Type	Associated Type	Default value	Other	Param.	Short text
INPUT_METHOD	LIKE	BDWFAP_PAR-INPUTMETHD		<input type="checkbox"/>	<input type="checkbox"/>	Inbound method
MASS_PROCESSING	LIKE	BDWFAP_PAR-MASS_PROC		<input type="checkbox"/>	<input type="checkbox"/>	Flag: Mass process
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	

- Specify the Export parameters in Export tab

The screenshot shows the SAP SE11 interface for defining function modules. The top bar includes standard icons for navigation and help, followed by 'Pattern', 'Pretty Printer', and 'Function M'. Below this, the 'Function module' field contains 'ZSHAN_IDOC_ZSHSTUD' and the status is 'Active'. The tabs at the top are 'Attributes', 'Import', 'Export' (which is selected), 'Changing', 'Tables', 'Exceptions', and 'Source code'. A toolbar below the tabs has icons for various functions like copy, paste, and search. The main area displays a table of parameters:

Parameter Name	Typing	Associated Type	Pass Val...	Short text
WORKFLOW_RESULT	LIKE	BDWF_PARAM-RESULT	<input type="checkbox"/>	Final value of method
APPLICATION_VARIABLE	LIKE	BDWF_PARAM-APPL_VAR	<input type="checkbox"/>	Variable to be used t
IN_UPDATE_TASK	LIKE	BDWFAP_PAR-CALLTRANS	<input type="checkbox"/>	Flag: Application has
			<input type="checkbox"/>	
			<input type="checkbox"/>	

- Specify the Table parameters in Tables tab

Screenshot of the SAP ABAP IDE showing the 'Tables' tab for the function module ZSHAN_IDOC_ZSHSTUD.

The toolbar includes standard icons for navigation, search, and code manipulation, followed by 'Pattern', 'Pretty Printer', and 'Fun' buttons.

The function module header shows 'ZSHAN_IDOC_ZSHSTUD' and 'Active' status.

The tabs at the top are: Attributes, Import, Export, Changing, **Tables**, Exceptions, Source code.

The table below lists the parameters:

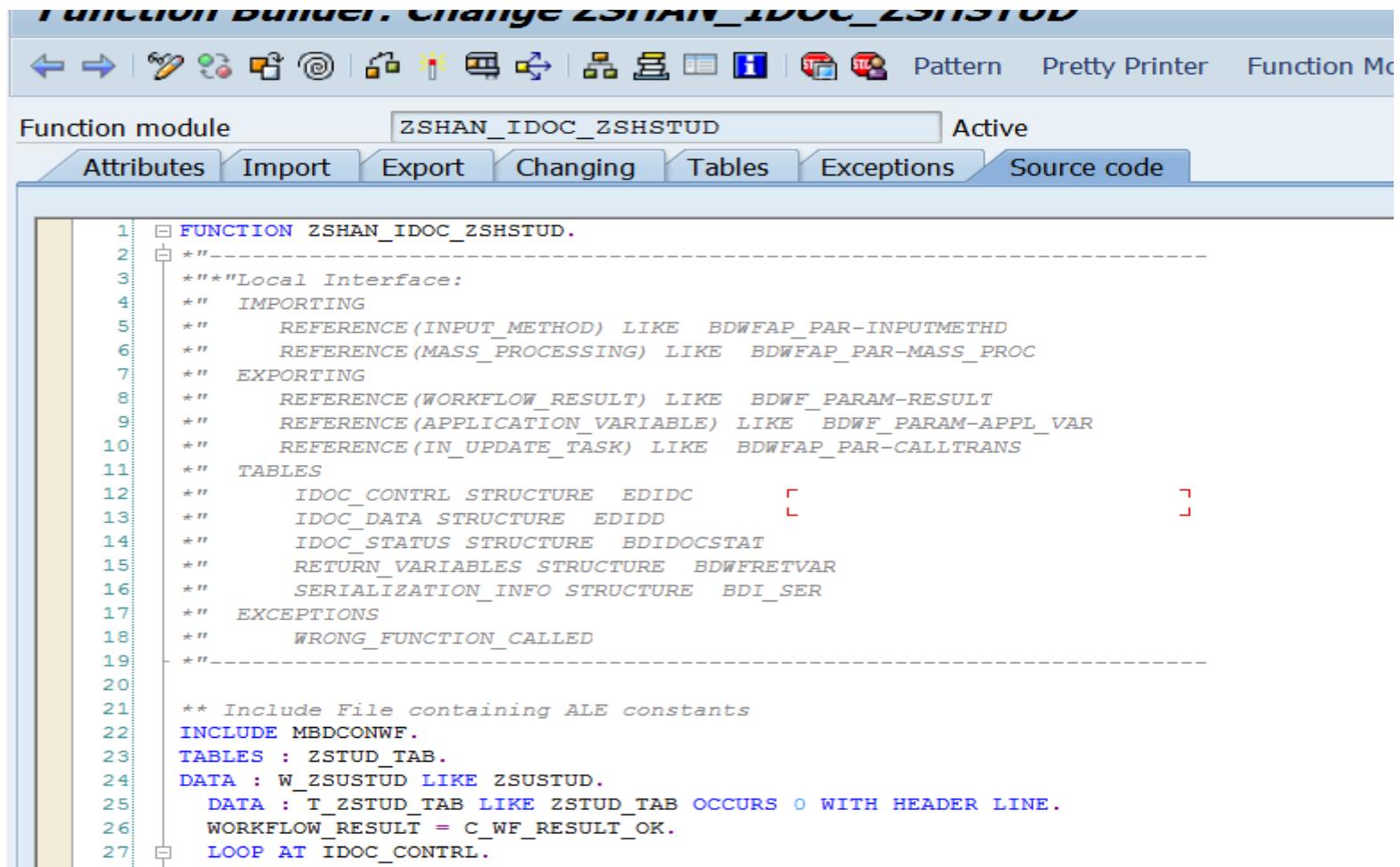
Parameter Name	Typing	Associated Type	Optional	Short text
IDOC_CTRL	LIKE	EDIDC	<input type="checkbox"/>	Control record
IDOC_DATA	LIKE	EDIDD	<input type="checkbox"/>	Data record (I)
IDOC_STATUS	LIKE	BDIDOCSTAT	<input type="checkbox"/>	ALE IDoc statu
RETURN_VARIABLES	LIKE	BDWFRETVAR	<input type="checkbox"/>	Assignment of
SERIALIZATION_INFO	LIKE	BDI_SER	<input type="checkbox"/>	Serialization o
			<input type="checkbox"/>	
			<input type="checkbox"/>	
			<input type="checkbox"/>	

- Specify the Exceptions in Exception tab

The screenshot shows the SAP GUI interface for defining a function module. The title bar displays 'Function module' and the name 'ZSHAN_IDOC_ZSHSTUD' with the status 'Active'. Below the title bar is a toolbar with various icons. The main area features a navigation bar with tabs: Attributes, Import, Export, Changing, Tables, Exceptions, and Source code. The 'Exceptions' tab is currently selected, indicated by a blue border. Underneath the navigation bar, there is a toolbar with icons for creating new exceptions and a checkbox labeled 'Exceptn Classes'. A table lists exceptions, with one entry visible: 'Exception' (WRONG_FUNCTION_CALLED) and 'Short text' (WRONG FUNCTION). The SAP logo is visible in the bottom right corner.

Exception	Short text
WRONG_FUNCTION_CALLED	WRONG FUNCTION

- Click on Source code Tab.



The screenshot shows the SAP Function Builder interface with the title bar "FUNCTION BUILDER Change ZSHAN_IDOC_ZSHSTUD". Below the title bar is a toolbar with various icons. The main area has tabs for "Attributes", "Import", "Export", "Changing", "Tables", "Exceptions", and "Source code". The "Source code" tab is currently selected, indicated by a blue border. The code editor displays the source code for the function module ZSHAN_IDOC_ZSHSTUD. The code includes function prototypes, table declarations, and an include statement for MBDCONWF. Red brackets are placed around certain sections of the code, likely highlighting specific parts of interest.

```
1 FUNCTION ZSHAN_IDOC_ZSHSTUD.
2 *"-*
3 ** Local Interface:
4 ** IMPORTING
5 **   REFERENCE(INPUT_METHOD) LIKE BDWFAP_PAR-INPUTMETHD
6 **   REFERENCE(MASS_PROCESSING) LIKE BDWFAP_PAR-MASS_PROC
7 ** EXPORTING
8 **   REFERENCE(WORKFLOW_RESULT) LIKE BDWF_PARAM-RESULT
9 **   REFERENCE(APPLICATION_VARIABLE) LIKE BDWF_PARAM-APPL_VAR
10 **   REFERENCE(IN_UPDATE_TASK) LIKE BDWFAP_PAR-CALLTRANS
11 ** TABLES
12 **   IDOC CONTRL STRUCTURE EDIDC
13 **   IDOC DATA STRUCTURE EDIDD
14 **   IDOC STATUS STRUCTURE BDIDOCSTAT
15 **   RETURN_VARIABLES STRUCTURE BDWFRETVAR
16 **   SERIALIZATION_INFO STRUCTURE BDI_SER
17 ** EXCEPTIONS
18 **   WRONG_FUNCTION_CALLED
19 *"-*
20
21 ** Include File containing ALE constants
22 INCLUDE MBDCONWF.
23 TABLES : ZSTUD_TAB.
24 DATA : W_ZSUSTUD LIKE ZSUSTUD.
25 DATA : T_ZSTUD_TAB LIKE ZSTUD_TAB OCCURS 0 WITH HEADER LINE.
26 WORKFLOW_RESULT = C_WF_RESULT_OK.
27 LOOP AT IDOC CONTRL.
```

- FUNCTION ZSHAN_IDOC_ZSHSTUD.

```
**"-  
***"Local Interface:  
**" IMPORTING  
**"   REFERENCE(INPUT_METHOD) LIKE BDWFAP_PAR-  
INPUTMETHD  
**"   REFERENCE(MASS_PROCESSING) LIKE BDWFAP_PAR-  
MASS_PROC  
**" EXPORTING  
**"   REFERENCE(WORKFLOW_RESULT) LIKE BDWF_PARAM-  
RESULT  
**"   REFERENCE(APPLICATION_VARIABLE) LIKE BDWF_PARAM-  
-APPL_VAR  
**"   REFERENCE(IN_UPDATE_TASK) LIKE BDWFAP_PAR-  
CALLTRANS  
**" TABLES  
**"   IDOC_CTRL STRUCTURE EDIDC  
**"   IDOC_DATA STRUCTURE EDIDD  
**"   IDOC_STATUS STRUCTURE BDIDOCSTAT  
**"   RETURN_VARIABLES STRUCTURE BDWFRETVAR  
**"   SERIALIZATION_INFO STRUCTURE BDI_SER  
**" EXCEPTIONS  
**"   WRONG_FUNCTION_CALLED  
**"-
```

- ** Include File containing ALE constants

```
INCLUDE MBDCONWF.
```

```
TABLES : ZSTUD_TAB.
```

```
DATA : W_ZSUSTUD LIKE ZSUSTUD.
```

```
DATA : T_ZSTUD_TAB LIKE ZSTUD_TAB OCCURS 0  
WITH HEADER LINE.
```

```
WORKFLOW_RESULT = C_WF_RESULT_OK.
```

```
LOOP AT IDOC_CTRL.
```

```
IF IDOC_CTRL-MESTYP NE 'ZSHSTUDMT'.
```

```
RAISE WRONG_FUNCTION_CALLED.
```

```
ENDIF.
```

- * Before reading a new entry, clear application buffer
LOOP AT IDOC_DATA WHERE DOCNUM EQ IDOC_C
ONTRL-DOCNUM.

W_ZSUSTUD = IDOC_DATA-SDATA.

MOVE-

CORRESPONDING W_ZSUSTUD TO T_ZSTUD_TAB.

INSERT INTO ZSTUD_TAB VALUES T_ZSTUD_TA
B.

ENDLOOP.

- UPDATE ZSTUD_TAB FROM T_ZSTUD_TAB.
IF SY-SUBRC EQ 0.
 IDOC_STATUS-DOCNUM = IDOC_CONTRL-
 DOCNUM.
 IDOC_STATUS-STATUS = '53'.
 IDOC_STATUS-MSGTY = 'I'.
 IDOC_STATUS-MSGID = 'YM'.
 IDOC_STATUS-MSGNO = '004'.
 IDOC_STATUS-MSGV1 = T_ZSTUD_TAB-
 STUDENTID.
 APPEND IDOC_STATUS.
 CLEAR IDOC_STATUS.
- ELSE.

- ```
IDOC_STATUS-DOCTYPE = IDOC_CONTRL-DOCTYPE.
IDOC_STATUS-STATUS = '51'.
IDOC_STATUS-MSGTY = 'E'.
IDOC_STATUS-MSGID = 'YM'.
IDOC_STATUS-MSGNO = '005'.
IDOC_STATUS-MSGV1 = T_ZSTUD_TAB-STUDENTID.
APPEND IDOC_STATUS.
CLEAR IDOC_STATUS.
WORKFLOW_RESULT = C_WF_RESULT_ERROR.
RETURN_VARIABLES-WF_PARAM = 'Error_Idocs'.
RETURN_VARIABLES-DOC_NUMBER = IDOC_CONTRL-
DOCTYPE.
APPEND RETURN_VARIABLES.
CLEAR RETURN_VARIABLES.
ENDIF.
ENDLOOP.

ENDFUNCTION.
```

- Assign FM to Logical Message:
- Go to TCODE WE57
- Click on Display / Change button.

Display View "IDoc: Assignment of FM to Log. Message and IDoc Type": O

| FM Name        | F. | BasicType | Enhanc. | Msg Type   | Var | Fct. | Object | + | Descript.        |
|----------------|----|-----------|---------|------------|-----|------|--------|---|------------------|
| /DSD/ME_IDOC_I |    | /DSD/HH_C |         | /DSD/HH_CO |     |      |        |   | DSD Control Obj  |
| /DSD/ME_IDOC_I |    | /DSD/HH_C |         | /DSD/HH CU |     |      |        |   | DSD Customer I   |
| /DSD/ME_IDOC_I |    | /DSD/HH_R |         | /DSD/HH_RA |     |      |        |   | DSD Material Ma  |
| /DSD/ME_IDOC_I |    | /DSD/HH_P |         | /DSD/HH_PA |     |      |        |   | DSD Payment Tr   |
| /DSD/ME_IDOC_I |    | BORNAT04  |         | BORNAT     |     |      |        |   | BOMs: Material E |
| /DSD/ME_IDOC_I |    | DEBRAG06  |         | DEBRAS     |     |      |        |   | Customer master  |
| /DSD/ME_IDOC_I |    | MATHAG05  |         | MATRAS     |     |      |        |   | Material master  |
| A01_IDOC_DISP  |    | A1DR001   |         | A1DR0MSG   |     |      |        |   |                  |
| A01_IDOC_DISP  |    | A1DAR01   |         | A1DARMSG   |     |      |        |   |                  |
| A01_IDOC_DISP  |    | A1DNR01   |         | A1DNRMSG   |     |      |        |   |                  |
| A01_IDOC_DISP  |    | A1DOP01   |         | A1DOPMSG   |     |      |        |   |                  |
| AFS_RETAIL_ART |    | ARTRAS01  |         | ARTRAS     |     |      |        |   | Create and chan  |
| AFS_RETAIL_ART |    | ARTRAS02  |         | ARTRAS     |     |      |        |   | Create and chan  |
| APPL_IDOC_INPU |    | BUPA_INBO |         | BUPA_INBOU |     |      |        |   | IDoc: Inbound In |
| APPL_IDOC_INPU |    | BUPA_INBO |         | BUPA_INBOU |     |      |        |   | IDoc: Inbound In |
| APPL_IDOC_INPU |    | BUPA_INBO |         | BUPA_INBOU |     |      |        |   | IDoc: Inbound In |
| APPL_IDOC_INPU |    | BUPA_INBO |         | BUPA_INBOU |     |      |        |   | IDoc: Inbound In |
| BAPI_IDOC_INPU |    | /DSD/ROUT |         | /DSD/ROUTE |     |      |        |   | RA: Create Chec  |
| BAPI_IDOC_INPU |    | /DSD/ROUT |         | /DSD/ROUTE |     |      |        |   | RA: Transfer Get |
| BAPI_IDOC_INPU |    | /DSD/ROUT |         | /DSD/ROUTE |     |      |        |   | RA: Create Cuss  |
| BAPI_IDOC_INPU |    | /DSD/ROUT |         | /DSD/ROUTE |     |      |        |   | RA: Create Cuss  |
| BAPI_IDOC_INPU |    | /DSD/ROUT |         | /DSD/ROUTE |     |      |        |   | RA: Create Deliv |

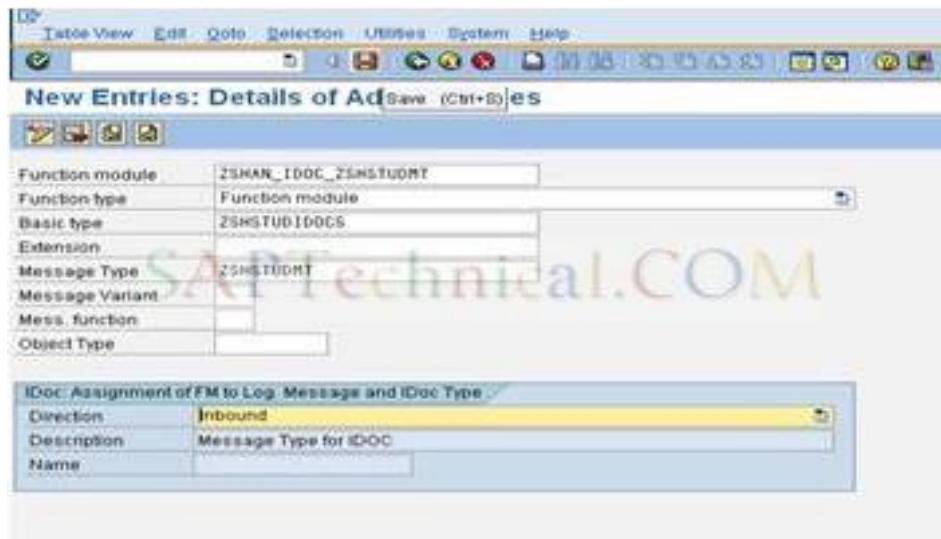
- Click on New Entries Button

Change View "IDoc: Assignment of FM to Log. Message and IDoc Type": Overview

New Entries (F5) Usage and IDoc Type

| FM Name         | F | BasicType | Enhanc. | Msg Type   | Var | Fct. | Object | + [Description]                                             |
|-----------------|---|-----------|---------|------------|-----|------|--------|-------------------------------------------------------------|
| /DSD/ME_IDOC_I  |   | /DSD/HH_C |         | /DSD/HH_CD |     |      |        | <input checked="" type="checkbox"/> DSD Control Out         |
| /DSD/ME_IDOC_I  |   | /DSD/HH_C |         | /DSD/HH_CU |     |      |        | <input checked="" type="checkbox"/> DSD Customer In         |
| /DSD/ME_IDOC_I  |   | /DSD/HH_R |         | /DSD/HH_RA |     |      |        | <input checked="" type="checkbox"/> DSD Material Master     |
| /DSD/ME_IDOC_I  |   | /DSD/HH_P |         | /DSD/HH_PA |     |      |        | <input checked="" type="checkbox"/> DSD Payment Transaction |
| /DSD/ME_IDOC_I  |   | BORRAT04  |         | BORRAT     |     |      |        | <input checked="" type="checkbox"/> BOMs: Material Item     |
| /DSD/ME_IDOC_I  |   | DEBMAS06  |         | DEBMAS     |     |      |        | <input checked="" type="checkbox"/> Customer master         |
| /DSD/ME_IDOC_I  |   | MATHAS05  |         | MATHAS     |     |      |        | <input checked="" type="checkbox"/> Material master         |
| AB1_IDOC_DISP_A |   | AIDR001   |         | AIDR001    |     |      |        | <input type="checkbox"/>                                    |
| AB1_IDOC_DISP_A |   | AIDAR01   |         | AIDAR01    |     |      |        | <input type="checkbox"/>                                    |
| AB1_IDOC_DISP_A |   | AIDNR01   |         | AIDNR01    |     |      |        | <input type="checkbox"/>                                    |
| AB1_IDOC_DISP_A |   | AIDOP01   |         | AIDOP01    |     |      |        | <input type="checkbox"/>                                    |
| AFS_RETAIL_ART  |   | ARTMAS01  |         | ARTMAS     |     |      |        | <input checked="" type="checkbox"/> Create and change       |
| AFS_RETAIL_ART  |   | ARTMAS02  |         | ARTMAS     |     |      |        | <input checked="" type="checkbox"/> Create and change       |
| APPL_IDOC_INPU  |   | BUPA_INBD |         | BUPA_INBD  |     |      |        | <input checked="" type="checkbox"/> IDoc: Inbound In        |
| APPL_IDOC_INPU  |   | BUPA_INBD |         | BUPA_INBD  |     |      |        | <input checked="" type="checkbox"/> IDoc: Inbound In        |
| APPL_IDOC_INPU  |   | BUPA_INBD |         | BUPA_INBD  |     |      |        | <input checked="" type="checkbox"/> IDoc: Inbound In        |
| APPL_IDOC_INPU  |   | BUPA_INBD |         | BUPA_INBD  |     |      |        | <input checked="" type="checkbox"/> IDoc: Inbound In        |
| BAPI_IDOC_INPU  |   | /DSD/ROUT |         | /DSD/ROUTE |     |      |        | <input checked="" type="checkbox"/> RA: Create Check        |
| BAPI_IDOC_INPU  |   | /DSD/ROUT |         | /DSD/ROUTE |     |      |        | <input checked="" type="checkbox"/> RA: Transfer Order      |
| BAPI_IDOC_INPU  |   | /DSD/ROUT |         | /DSD/ROUTE |     |      |        | <input checked="" type="checkbox"/> RA: Create Cust         |
| BAPI_IDOC_INPU  |   | /DSD/ROUT |         | /DSD/ROUTE |     |      |        | <input checked="" type="checkbox"/> RA: Create Cust         |
| BAPI_IDOC_INPU  |   | /DSD/ROUT |         | /DSD/ROUTE |     |      |        | <input checked="" type="checkbox"/> RA: Create Dealer       |

- Specify created FM name, Function Type, Basic Type (IDOC), Message Type, and Direction and click on SAVE button.



- Define Input Method for Inbound Function Module:
- Go to TCODE BD51
- Click on Display / Change button

The screenshot shows a SAP application window titled "Display View 'Characteristics of Inbound Function Modules': Overview". The window has a toolbar at the top with various icons. Below the toolbar is a menu bar with "Table View", "Edit", "Data", "Selection", "Utilities", "System", and "Help". The main area contains a table with two columns: "Function module (inbound)" and "Input". The "Input" column contains values 0, 1, or 2. The "Function module (inbound)" column lists various IDOC-related function modules. At the bottom of the table, there is a status bar with "Position" and "Entry 1 of 242".

| Function module (inbound)    | Input | Output | Change allowed |
|------------------------------|-------|--------|----------------|
| /DSD/ME_IDOC_INPUT_CONNECTOR | 0     |        |                |
| AB1_IDOC_DISPATCH            | 0     |        |                |
| AB1_IDOC_INPUT_PESADV1       | 0     |        |                |
| AFS_RETAIL_ARTMAS_IDOC_INPUT | 1     |        |                |
| APPL_IDOC_INPUT1             | 1     |        |                |
| APPL_IDOC_INPUTH             | 0     |        |                |
| BAPI_IDOC_INPUT1             | 1     |        |                |
| BAPI_IDOC_INPUTP             | 0     |        |                |
| BAPI_IDOC_INPUT_RDR          | 1     |        |                |
| BAPI_IDOC_INPUT_RDR_TA       | 1     |        |                |
| BC621_INPUT_00               | 2     |        |                |
| BC621_INPUT_01               | 2     |        |                |
| BC621_INPUT_02               | 2     |        |                |
| BC621_INPUT_03               | 2     |        |                |
| BC621_INPUT_04               | 2     |        |                |
| BC621_INPUT_05               | 2     |        |                |

- Click on New Entries

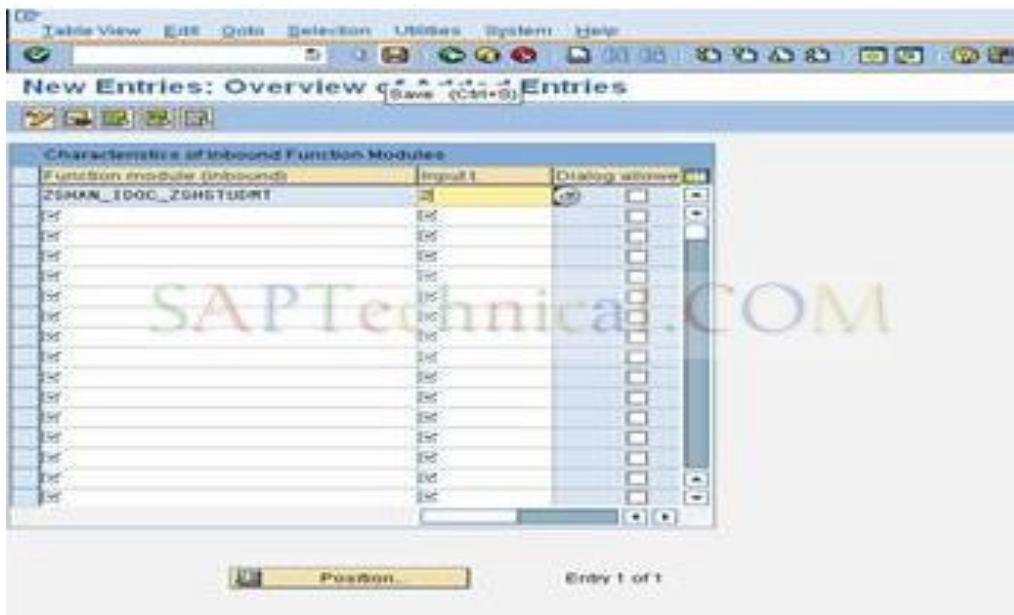
Change View "Characteristics of Inbound Function Modules": Overview

New Entries (F5)

| Function module (inbound)     | Input | Dialog allowed                      |
|-------------------------------|-------|-------------------------------------|
| /BSS/ME_IDOC_INPUT_CONNECTOR  | 0     | <input checked="" type="checkbox"/> |
| AB1_IDOC_DISPATCH             | 0     | <input type="checkbox"/>            |
| AB1_IDOC_INPUT_DESADV1        | 0     | <input type="checkbox"/>            |
| AFS_RETAIL_ARITHAS_IDOC_INPUT | 1     | <input type="checkbox"/>            |
| APPL_IDOC_INPUT1              | 1     | <input type="checkbox"/>            |
| APPL_IDOC_INPUTM              | 0     | <input type="checkbox"/>            |
| BAPI_IDOC_INPUT1              | 1     | <input type="checkbox"/>            |
| BAPI_IDOC_INPUTP              | 0     | <input type="checkbox"/>            |
| BAPI_IDOC_INPUT_RDR           | 1     | <input type="checkbox"/>            |
| BAPI_IDOC_INPUT_RDR_TA        | 1     | <input type="checkbox"/>            |
| BC621_INPUT_00                | 2     | <input checked="" type="checkbox"/> |
| BC621_INPUT_01                | 2     | <input checked="" type="checkbox"/> |
| BC621_INPUT_02                | 2     | <input checked="" type="checkbox"/> |
| BC621_INPUT_03                | 2     | <input checked="" type="checkbox"/> |
| BC621_INPUT_04                | 2     | <input checked="" type="checkbox"/> |
| BC621_INPUT_05                | 2     | <input checked="" type="checkbox"/> |

Position: Entry 1 of 242

- Specify FM name and Input Types as 2. And Click on Save and Back buttons.



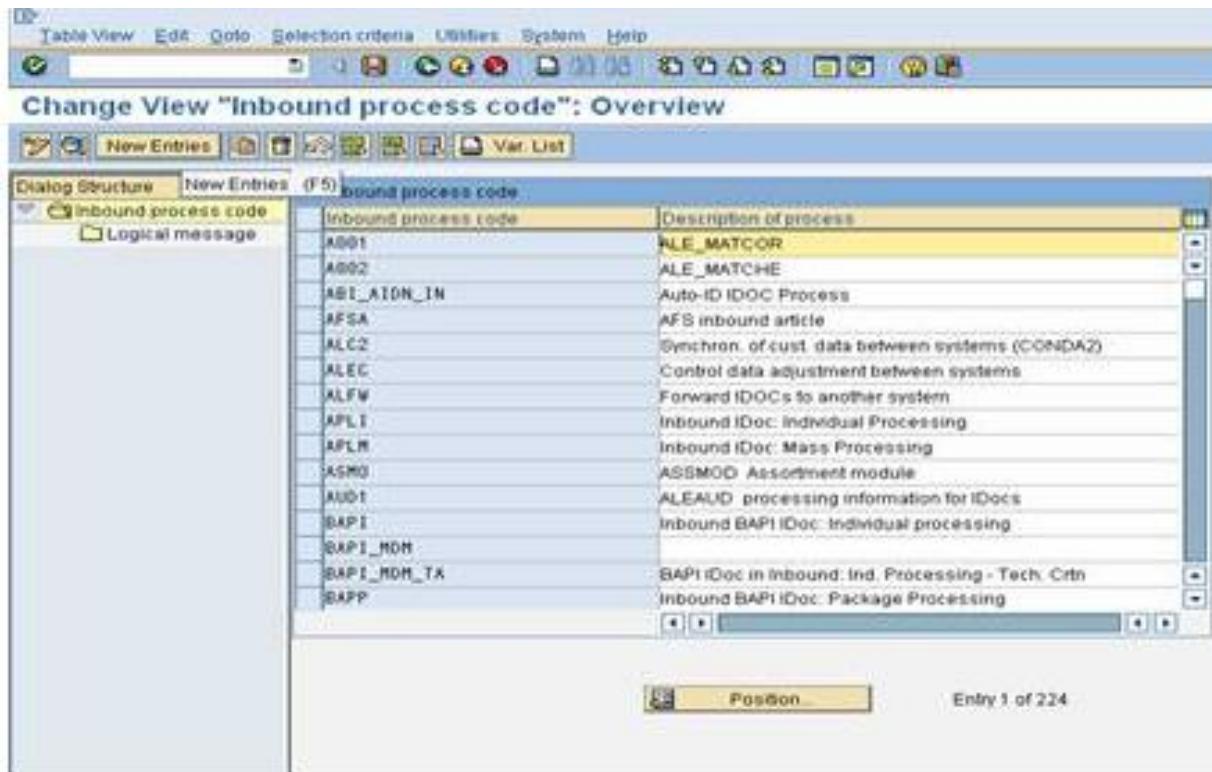
- **Creating Process Code:**
- Go to TCODE WE42
- Click on Display / Change Button

The screenshot shows the SAP GUI interface for the 'Inbound process code' overview. The title bar reads 'Display View "Inbound process code": Overview'. The left sidebar has a tree view with 'Inbound process code' expanded, showing 'Logical message' as a child node. The main area is a table with two columns: 'Inbound process code' and 'Description of process'. The table contains 18 rows of data.

| Inbound process code | Description of process                             |
|----------------------|----------------------------------------------------|
| A001                 | ALE_MATCOR                                         |
| A002                 | ALE_MATCHE                                         |
| AB1_AIDN_IN          | Auto-ID IDOC Process                               |
| AFSA                 | AFS inbound article                                |
| ALC2                 | Synchron. of cust. data between systems (CONDIAZ)  |
| ALEC                 | Control data adjustment between systems            |
| ALFM                 | Forward IDOCs to another system                    |
| APL1                 | Inbound IDoc: Individual Processing                |
| KPLM                 | Inbound IDoc: Mass Processing                      |
| ASMD                 | ASSMOD: Assortment module                          |
| AUDI                 | ALEAUD: processing information for IDocs           |
| BAPI                 | Inbound BAPI IDoc: Individual processing           |
| BAPI_MDM             |                                                    |
| BAPI_MDM_TA          | BAPI IDoc in Inbound: Ind. Processing - Tech. Crtn |
| BAPP                 | Inbound BAPI IDoc: Package Processing              |

At the bottom, there are buttons for 'Position' and 'Entry 1 of 224'.

- Click on New Entries button

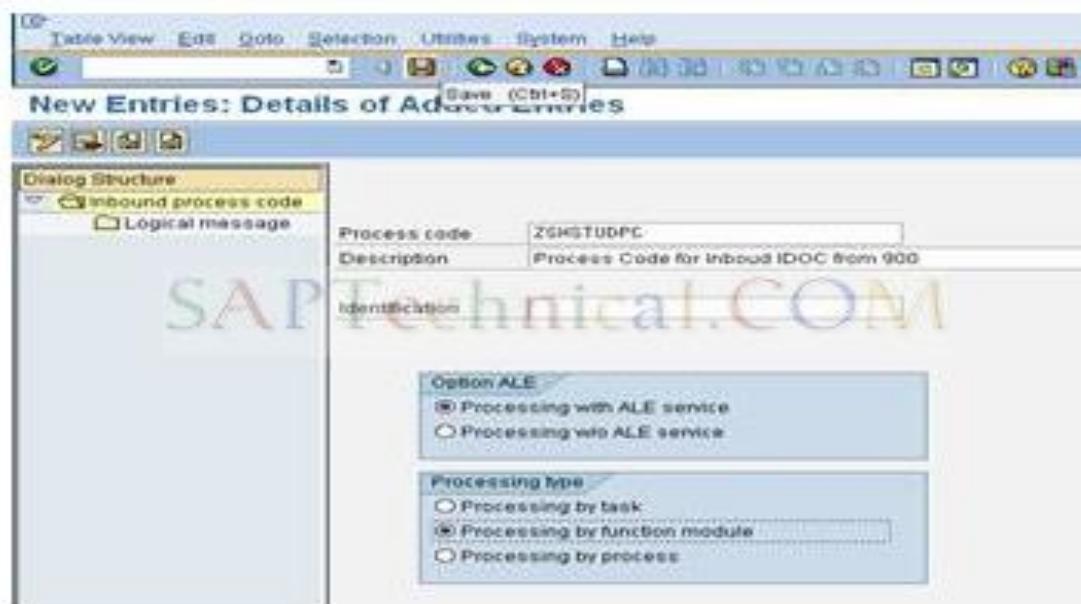


The screenshot shows a SAP application window titled "Change View "Inbound process code": Overview". The menu bar includes "Table View", "Edt", "Quto", "Selection criteria", "Utilities", "System", and "Help". Below the menu is a toolbar with various icons. A yellow box highlights the "New Entries" button in the toolbar. The main area contains a table with two columns: "Inbound process code" and "Description of process". The table lists 224 entries, starting with A001 (ALE\_MATCH) and ending with BAPP (Inbound BAPI IDoc: Package Processing). The table has scroll bars on the right and bottom.

| Inbound process code | Description of process                             |
|----------------------|----------------------------------------------------|
| A001                 | ALE_MATCH                                          |
| A002                 | ALE_MATCHE                                         |
| A01_AIDN_IN          | Auto-ID IDOC Process                               |
| AFSA                 | AFS inbound article                                |
| ALC2                 | Synchron. of cust. data between systems (CONDIAZ)  |
| ALEC                 | Control data adjustment between systems            |
| ALFW                 | Forward IDOCs to another system                    |
| APL1                 | Inbound IDoc: Individual Processing                |
| APL2                 | Inbound IDoc: Mass Processing                      |
| ASMO                 | ASSMOD Assortment module                           |
| AUDI                 | ALEAUD processing information for IDocs            |
| BAPI                 | Inbound BAPI IDoc: Individual processing           |
| BAPI_RDM             |                                                    |
| BAPI_RDM_TX          | BAPI IDoc in Inbound: Ind. Processing - Tech. Crtn |
| BAPP                 | Inbound BAPI IDoc: Package Processing              |

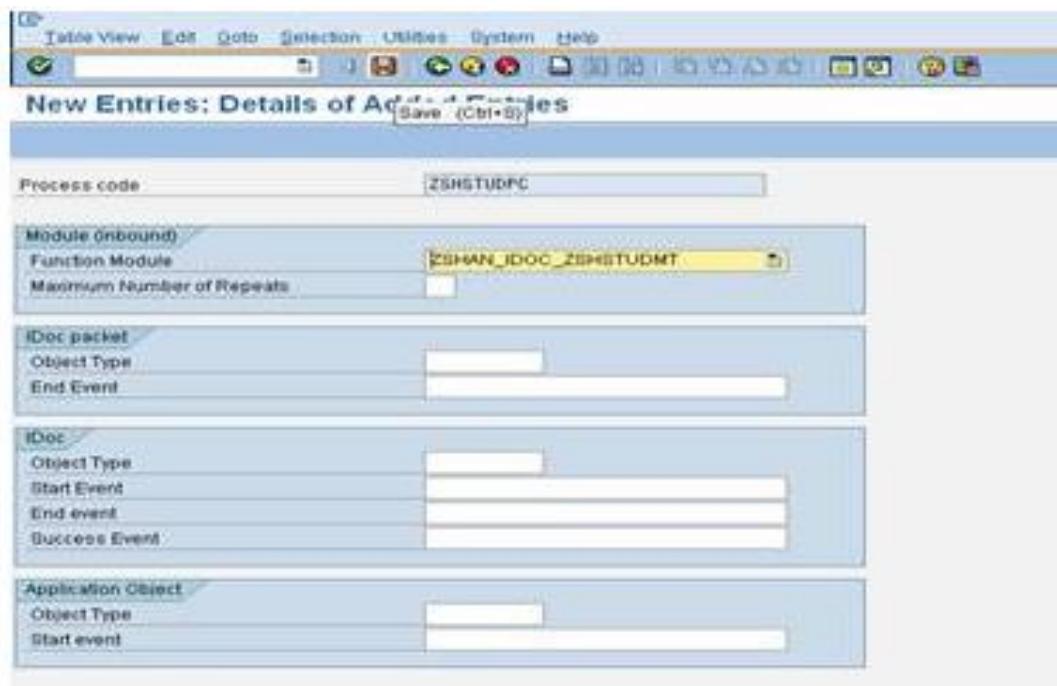
Position: Entry 1 of 224

- Specify a process code name, Description and select the options processing with ALE services, Processing by Function Module.

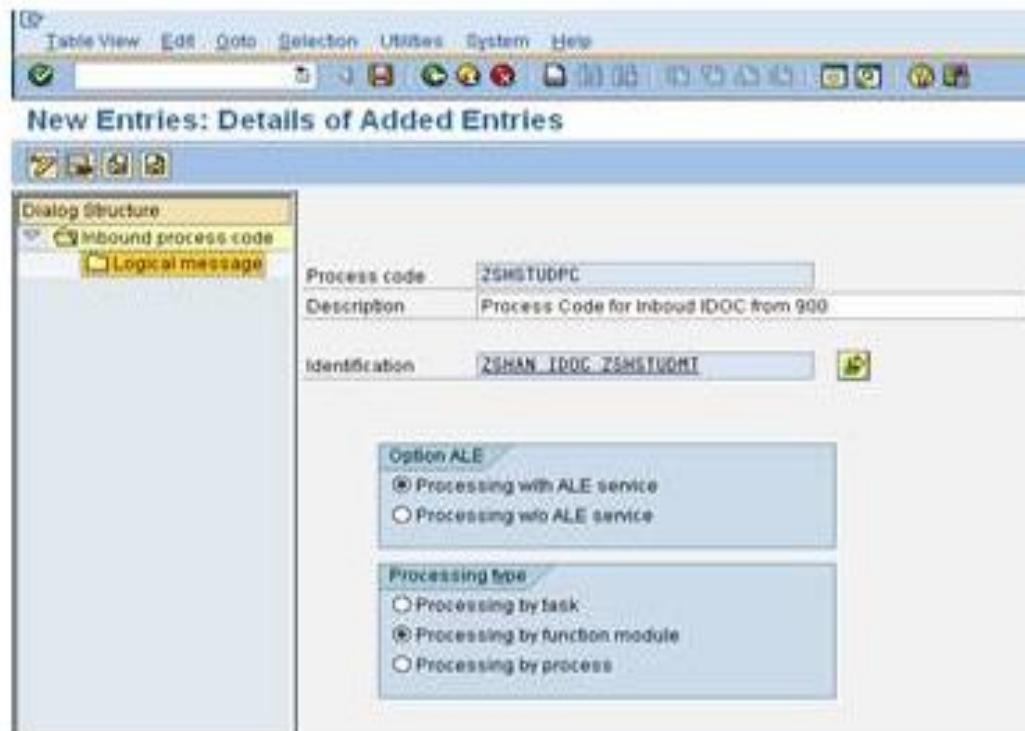


Click on save button

- In next screen select the FM name and click on SAVE button and Click on BACK button.

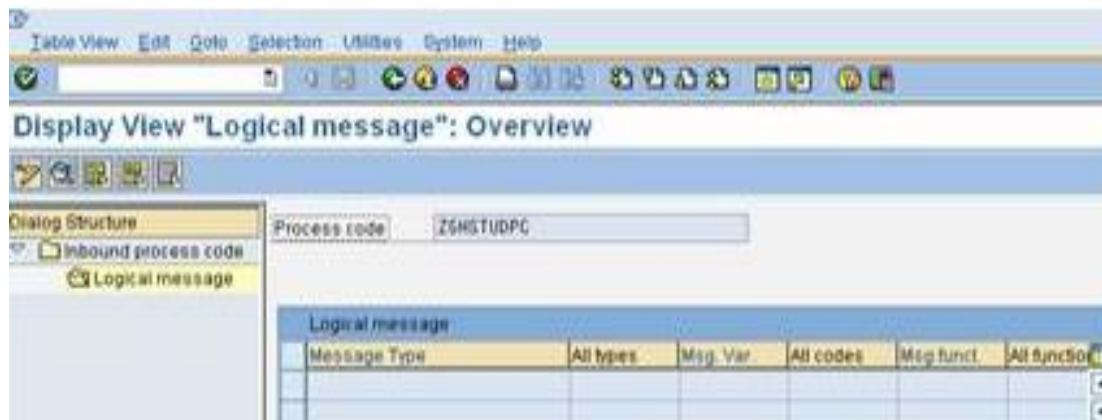


- It will take you to your previous screen. Double Click on Logical Message in left side tree.

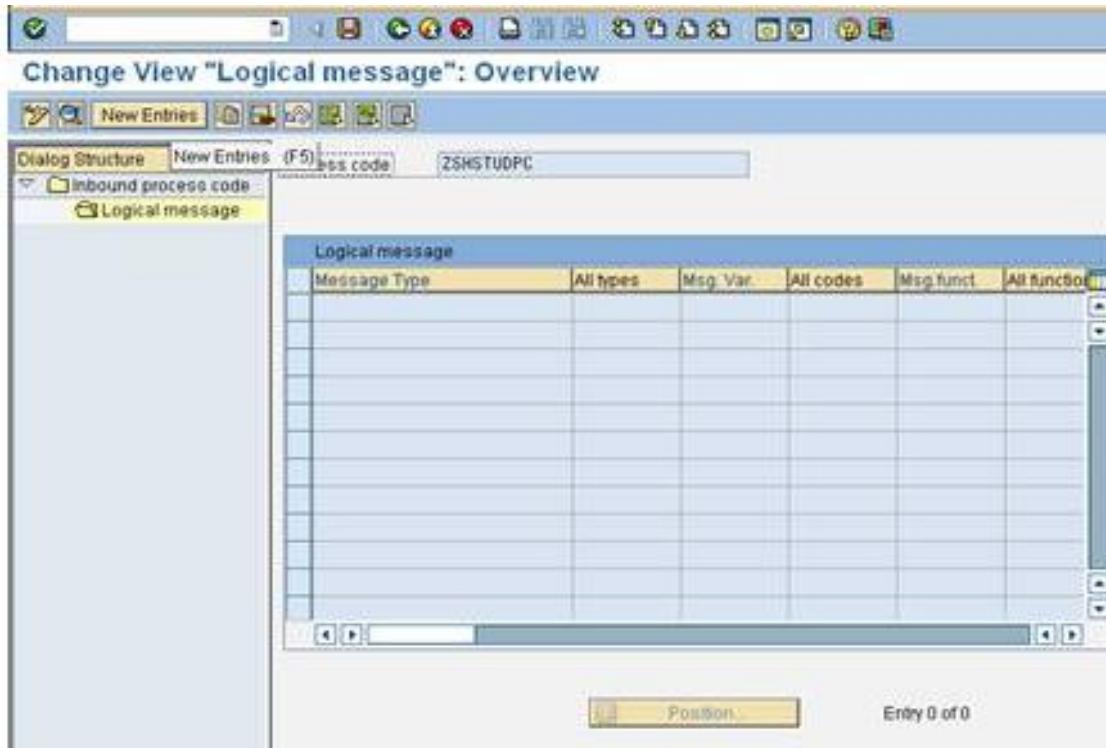


Click on Display / Change button

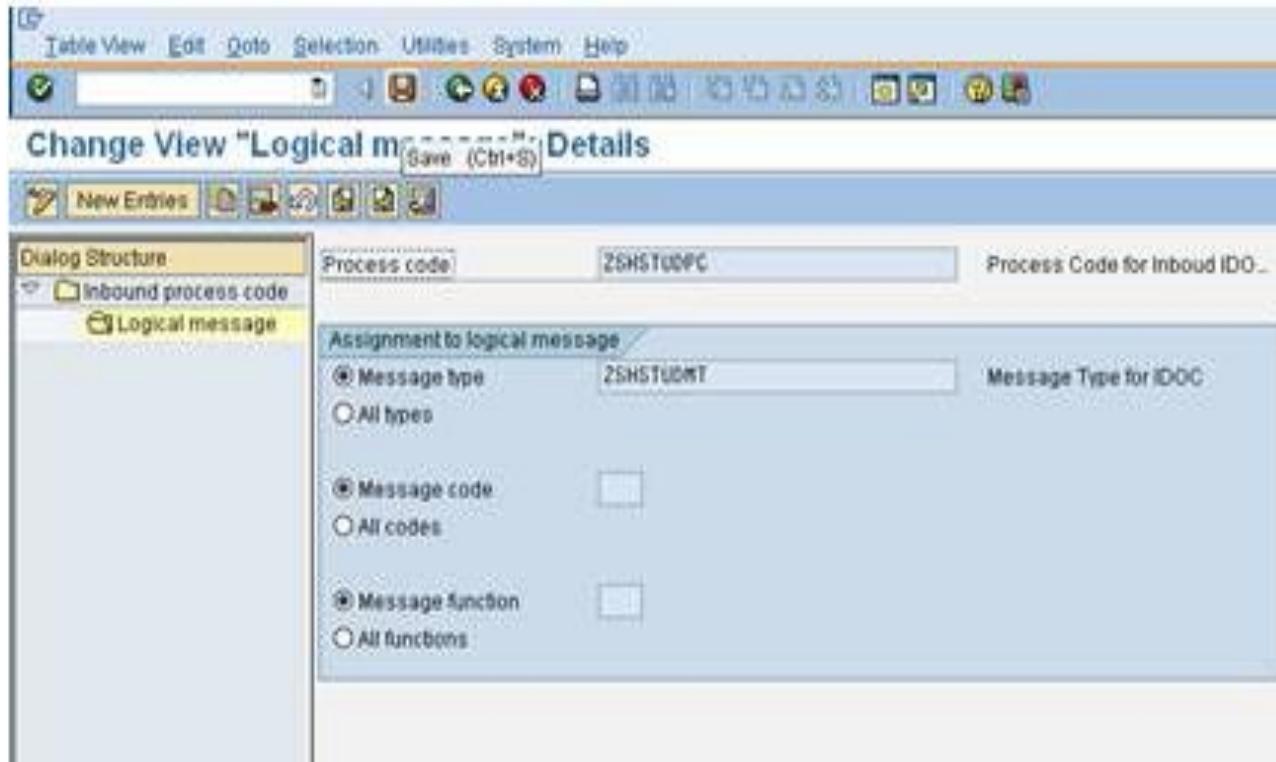
- Click on Display / Change button



- Click on New Entries button



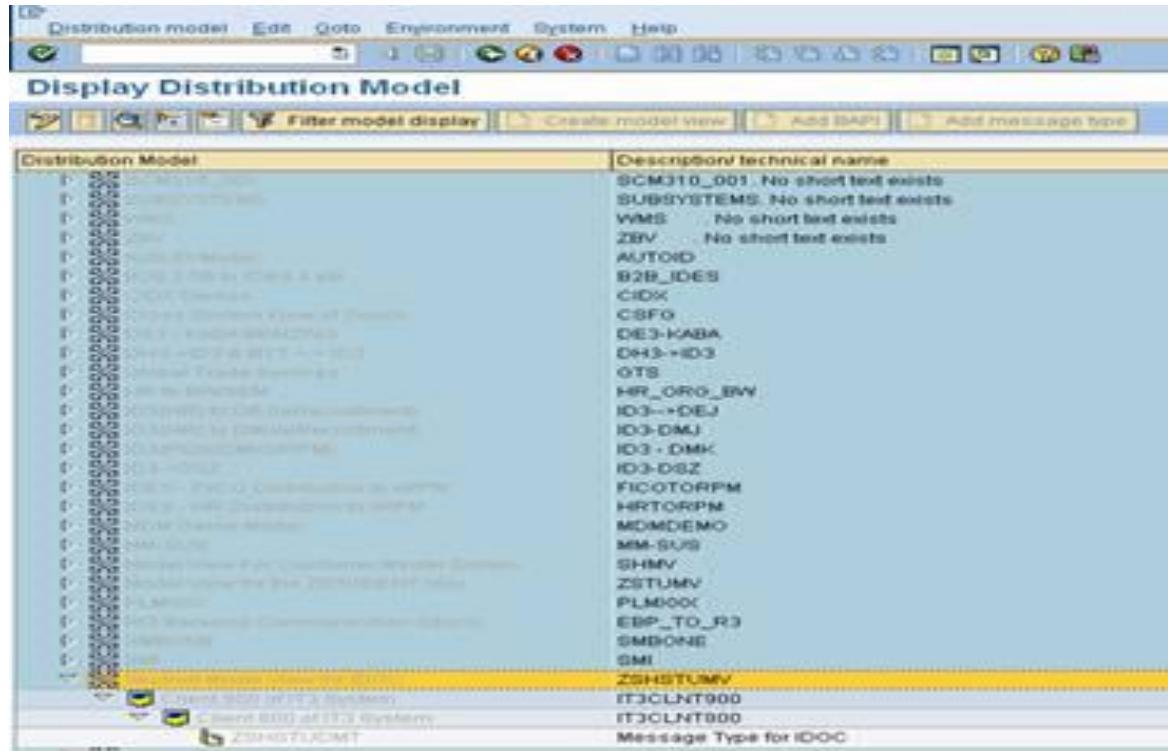
- Specify the Message Type and Click on Save button



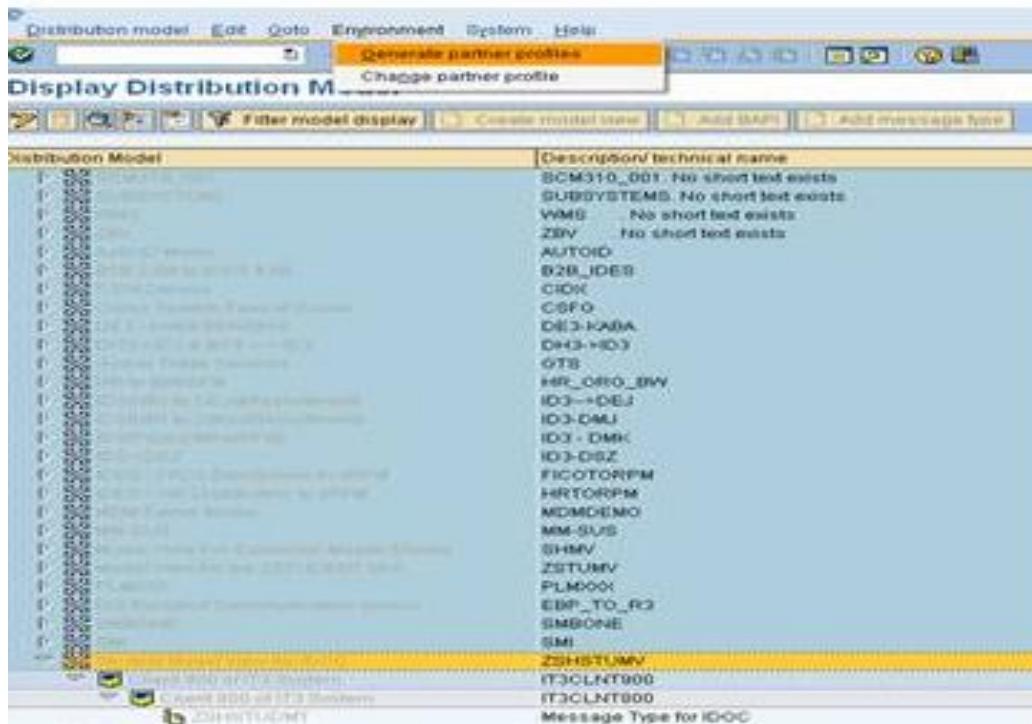
- Click on Back button



- **Generating the Partner Profile:**
- Go to TCODE BD64.
- Select the Model View which you distributed in client 800.



- Click on Environment Menu -> Generate Partner Profile



- It will show the next screen, in that click on Execute button

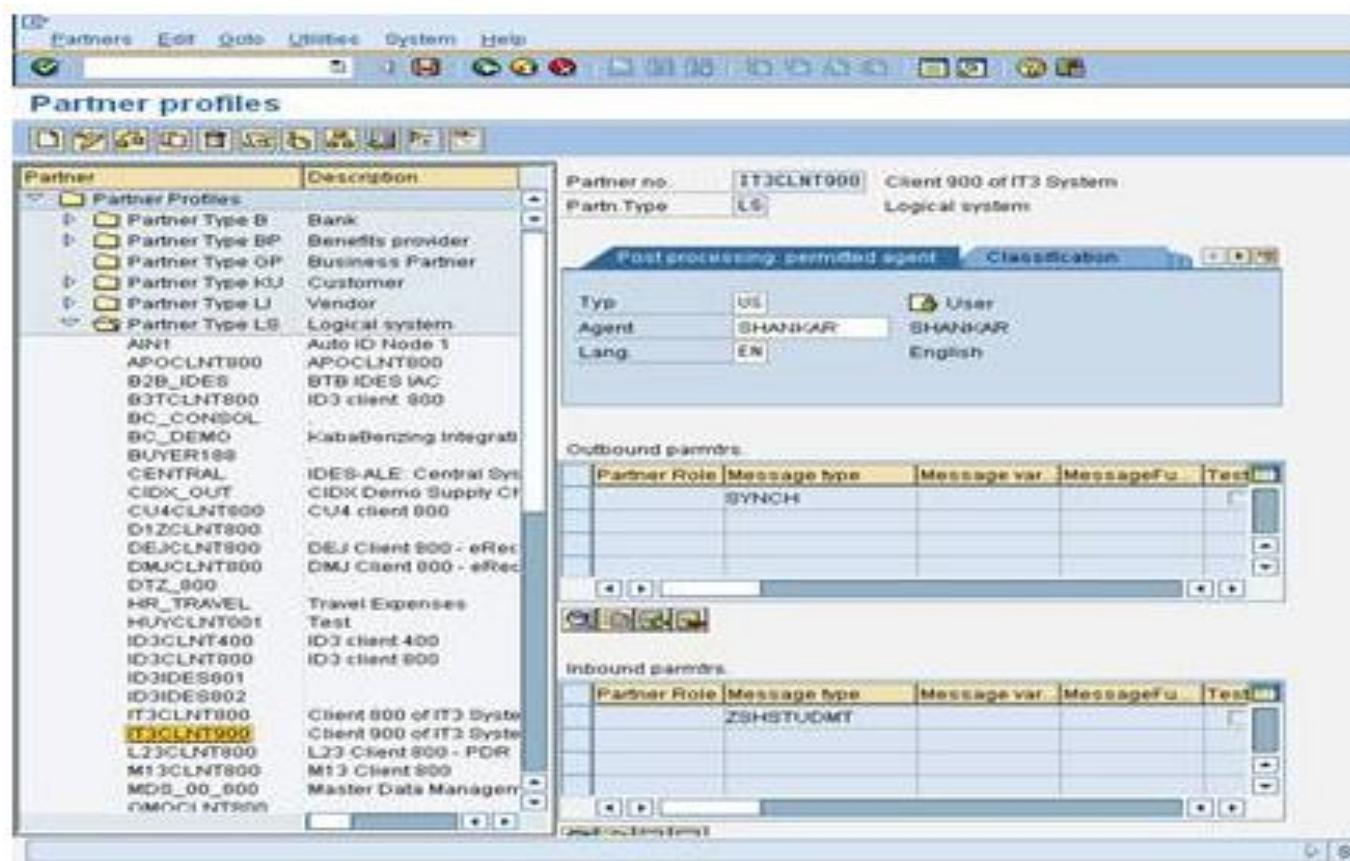


- It will show the Partner Profile details

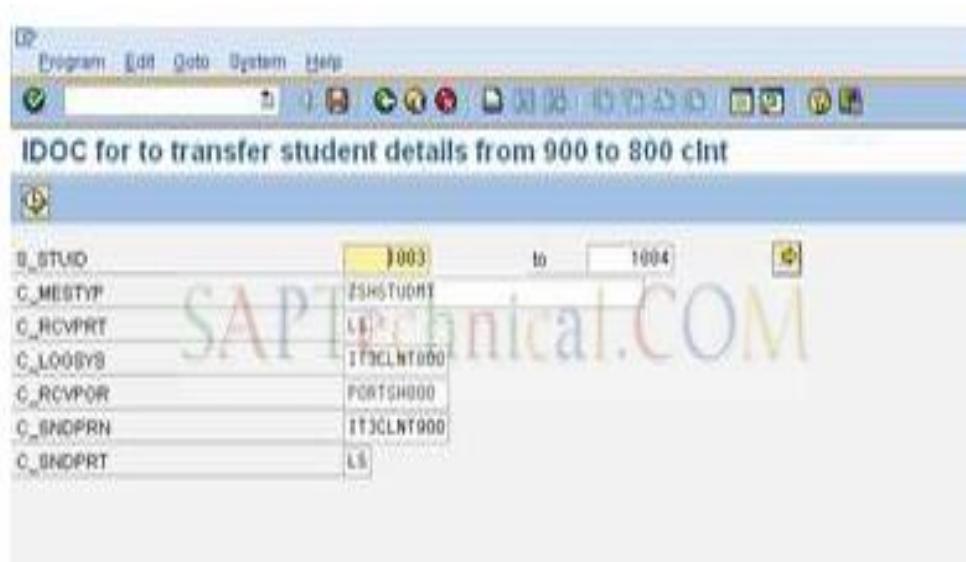
The screenshot shows a SAP Fiori application interface. The title bar reads "Generate Partner Profile". Below the title bar is a toolbar with various icons. The main area is titled "Log for Partner Profile Generation". The log is presented in a table format with two columns: "Partner" and "Port". The "Partner" section shows two entries for "System IT3CLNT900": the first entry has a status message "System IT3CLNT900 as a partner type already exists" in red, and the second entry also has the same message. The "Port" section shows one entry for "System IT3CLNT900" with the status message "Port PORTSH900 with RFC destination IT3CLNT900 already exists" in red. The "Outb. Parameters" and "Inb. Parameters" sections both show one entry for "System IT3CLNT900" with status messages in green: "Outbound parameters for message type SYNCH SYNCHRON successfully created" and "Inbound parameters for message type ZSHSTUDMT successfully created" respectively.

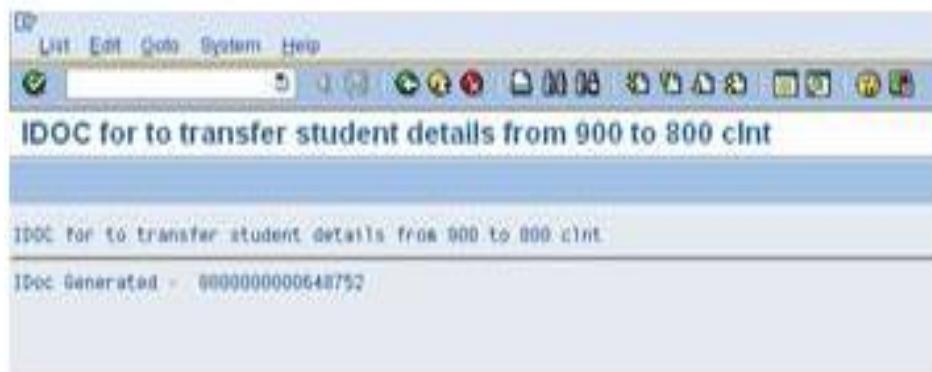
| Log for Partner Profile Generation |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| <b>Partner</b>                     |                                                                          |
| System IT3CLNT900                  | System IT3CLNT900 as a partner type already exists                       |
| System IT3CLNT900                  | System IT3CLNT900 as a partner type already exists                       |
| <b>Port</b>                        |                                                                          |
| System IT3CLNT900                  | Port PORTSH900 with RFC destination IT3CLNT900 already exists            |
| <b>Outb. Parameters</b>            |                                                                          |
| System IT3CLNT900                  | Outbound parameters for message type SYNCH SYNCHRON successfully created |
| <b>Inb. Parameters</b>             |                                                                          |
| System IT3CLNT900                  | Inbound parameters for message type ZSHSTUDMT successfully created       |

- To check the partner profile details. Go to TCODE WE20. Select the partner system name.

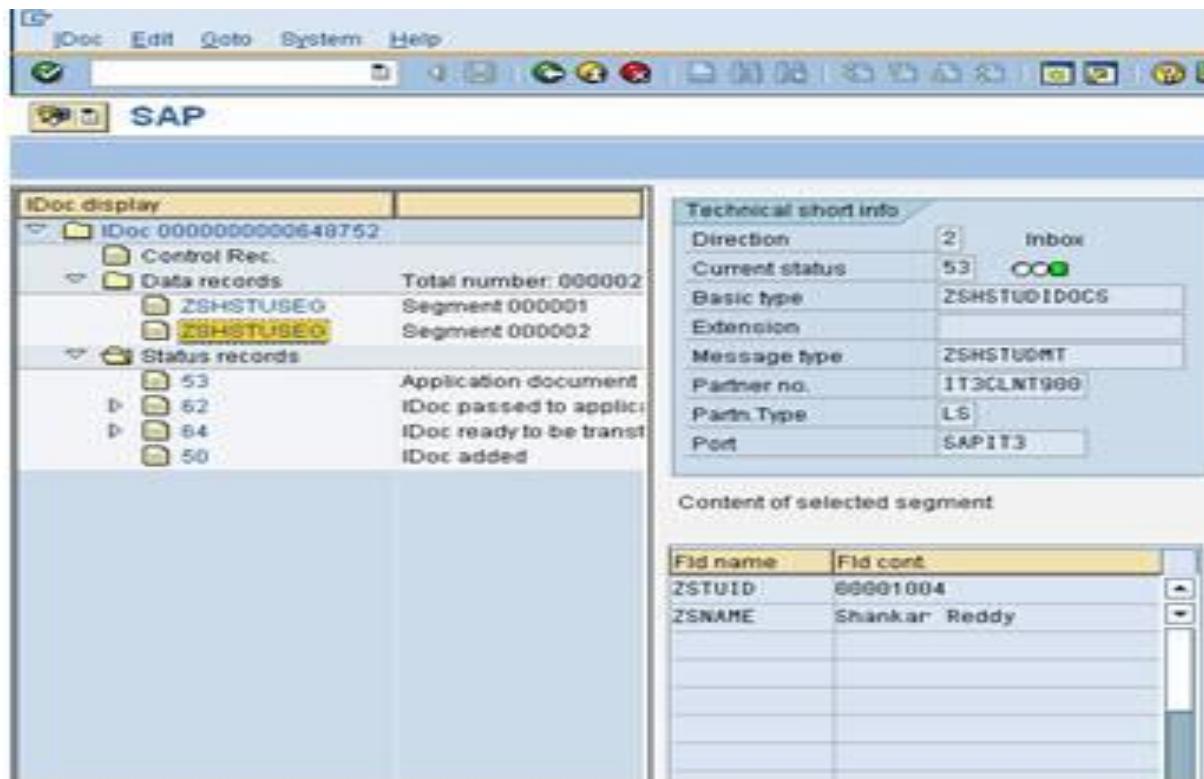


- Transferring the IDOC control records from Client 800 to 810:
- In source system, go to TCODE SE38. (In client 800)
- Execute the Report program which you created.





- Check in Destination System: (Here client 810)
- Go to TCODE WE02



- Check in ZSTUDENTS table in SE11.



The screenshot shows the SAP Data Browser interface for the ZSTUDENTS table. The title bar reads "Data Browser: Table ZSTUDENTS Select Entries 2". The toolbar contains various icons for table operations like insert, update, delete, and search. The main area displays a table with three columns: NAME, ZSTUID, and ZENAME. There are two rows of data:

| NAME          | ZSTUID | ZENAME        |
|---------------|--------|---------------|
| Aditya        | 1003   | Aditya        |
| Shankar Reddy | 1004   | Shankar Reddy |

- Ex 2 :
- Steps :
  - ❑ Goto transaction **SALE**
  - ❑ Basic settings.
  - ❑ Logical systems : the **logical system** is a client. Since the **logical system** name is used to identify a **system** uniquely within the network, two systems cannot have the same name if they are connected to each other.
  - ❑ Define logical system :
    - Sending system is called outbound system.
    - Receiving system is called inbound system.

- Click on New entries
- Define logical system ex:
  - SEND : sending System
  - RCV : receiving system
- Save and go back.
- Assign logical system to the client
  - Ex: consider 800 is our sending system and 801 is receiving system.
  - Click on 800 and assign logical system as SEND and save.
  - Click on 810 and assign logical system as RCV and save.

- Logical connected system if we want to connect physically, then we have to use RFC(Remote function call) connection.

- Communication

- Create RFC connection.

- Put cursor on ABAP connection and click on create.

- Ex:

- RFC Destination : SEND.

- Description : RFC connection for sending system.

- Connection type : 3

- Target Host : Application Server.

- System Number

- And press enter.

- Click on logon & security tab.
- Enter logon:
  - Language : EN
  - Client :800
  - User :
  - Password :
- Click on save.
- Click on **Remote Logon**

- ❑ To create RFC connection RECV :
  - Put cursor on ABAP connection and click on create.
  - Ex:
  - RFC Destination : RECV.
  - Description : RFC connection for receiving system.
  - Connection type : 3
  - Target Host : Application Server.
  - System Number
  - And press enter.
  - Click on logon & security tab.
  - Enter logon:
    - Language : EN
    - Client : 810
    - User :
    - Password :
  - Click on save.
  - Click on **Remote Logon**

- **Message Type (WE81)** : Using message type we can identify which kind of data we are going to transfer. Ex: material data , sales data etc.
  - CREMAS , DEBMAS, MATMAS.
- **IDOC Type (WE82)** : with the given message type what data we are going to transfer. Ex : material desc , unit measure etc.
- **Segments** : It is a structure of IDOC type.

- For an Ex: consider we are going to transfer material detail.  
Message type : **MATMAS** .
- WE81.
- Goto **WE82**.
  - Based on message type select IDOC type.
  - Click on position , enter message type and press enter.
  - Based on latest Release , select basic type( IDOC type)
  - Ex: MATMOS05.
- Goto **WE30**.
  - Obj.name : MATMOS05.
  - Click on display.
  - We can find root node and child node.
  - These are called as **Segments** .
  - Ex : E1MARA1.
- Goto **WE31**.
  - Enter segment type : E1MARA1.
  - Click on display.

- Go to transaction **BD64** (**Maintenance of Distribution model**).
- Click on change.
- Click on **create model view**.
- Give the short desc.
- Technical name : Ex : ZMAT and click on continue.
- Select ZMAT and click on **add message Type**.
- Enter Sender : SEND.
- Receiver : RCV.
- Message Type : MATMAS
- Click on continue .
- Expand ZMAT
- If you want to set filter , then double click on **No Filter set** .
- Select data filtering and click on create filter group.
- Expand filter group.
- If you want filter based on ex: material type , then click material type .
- Click on insert row and click on continue .

- Select ZMAT , Save and go to environment -> generate partner profile.
  - Execute.
- **Port** : Port is a place to send or receive the data.

- **EDIT -> Model view -> Distribute.**
  - In logical system ‘receiving system’ already selected.
  - Click on continue.

- Receiving End :
  - BD64.
  - Click on ZMAT.
  - Environment -> generate partner profile.
  - Execute.
  - Click on Sending System.
  - Expand logical System.
  - Double click on SEND.
  - Double click on message type.
  - Process code : Use F4 help : for material : MATM.
  - Save and go back.

- To send data :
  - Ex : create material using ‘MM01’.
  - **BD10** : To send material from one system to another system.
    - ❑ Enter material number.
    - ❑ Logical system : RCV.
    - ❑ Execute.
    - ❑ For each record one IDOC will create.
  - **WE05** : to check IDOC
    - ❑ Execute.
    - ❑ Green Light : IDOC sent successfully.

- To Check received data :

- WE05 .
- Execute
- Click on IDOC
- Data records .

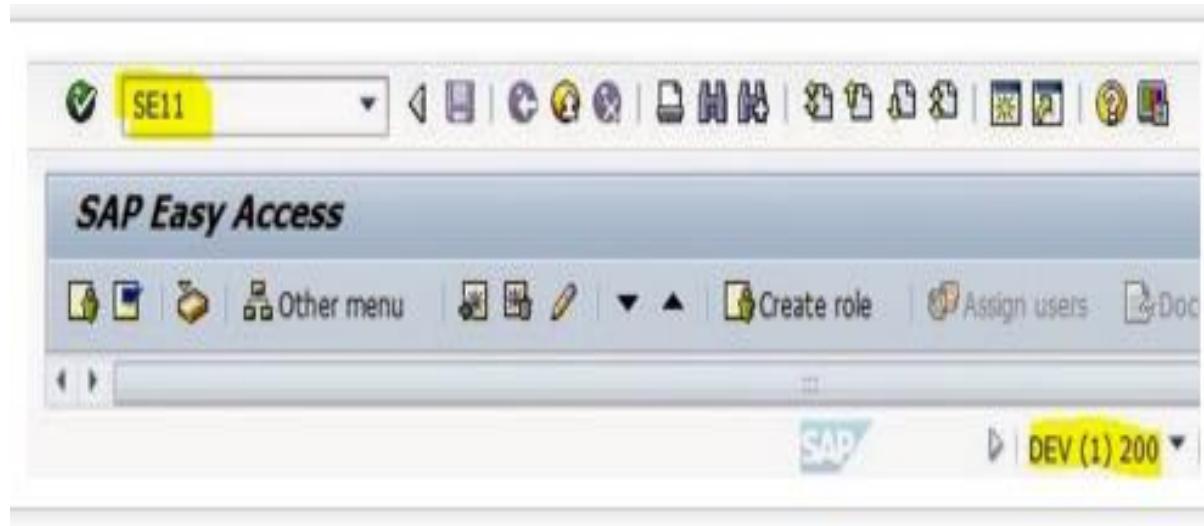
# Steps:

1. Define Logical System.
2. Assign clients to the logical system.
3. Create RFC connection.
4. Go to BD64 to create model view .
5. Generate partner profile.
6. Distribute model view to 800.
7. Login to 810 and go to BD64 and generate the partner profile.
8. Select the sending system and change the process code.
9. Go to relevant transaction code and execute.
10. Check the IDOC status in transaction WE05.

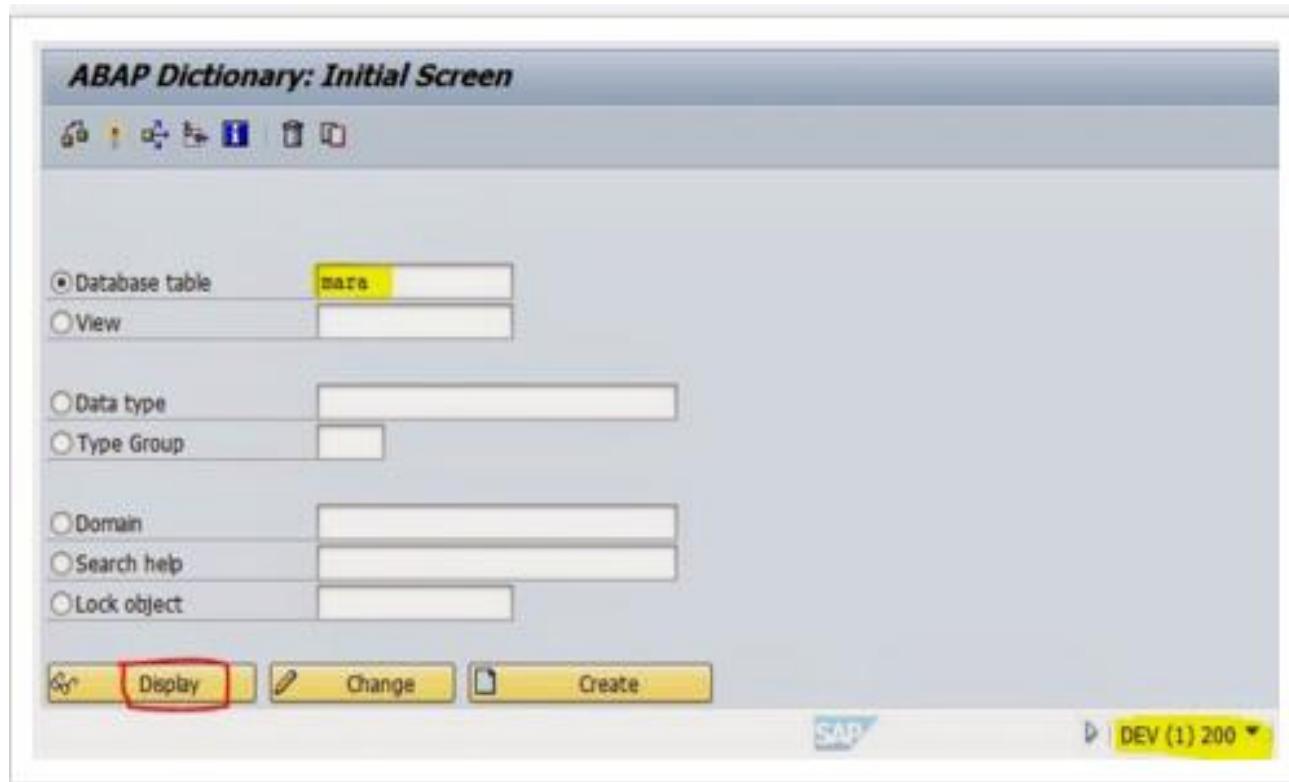
# Extending standard IDoc

- **Business Scenario:** Suppose we need to transfer the Material from one system to another system but we need some extra information about the material to be captured before sending it. To achieve this the standard material Idoc: MATMAS05 is extended.

- Step1. Go to Tcode- SE11 in the sender system.



Step2. Provide the table Name: MARA and click on Display button.



- Step3. Click on Append structure to enhance the table fields so that we can capture some extra information.

**Dictionary: Display Table**

Transp. Table: M00A Active  
Short Description: General Material Data

Buttons: Technical Settings, Indexes..., **Append Structure...** (highlighted)

Tab: Fields

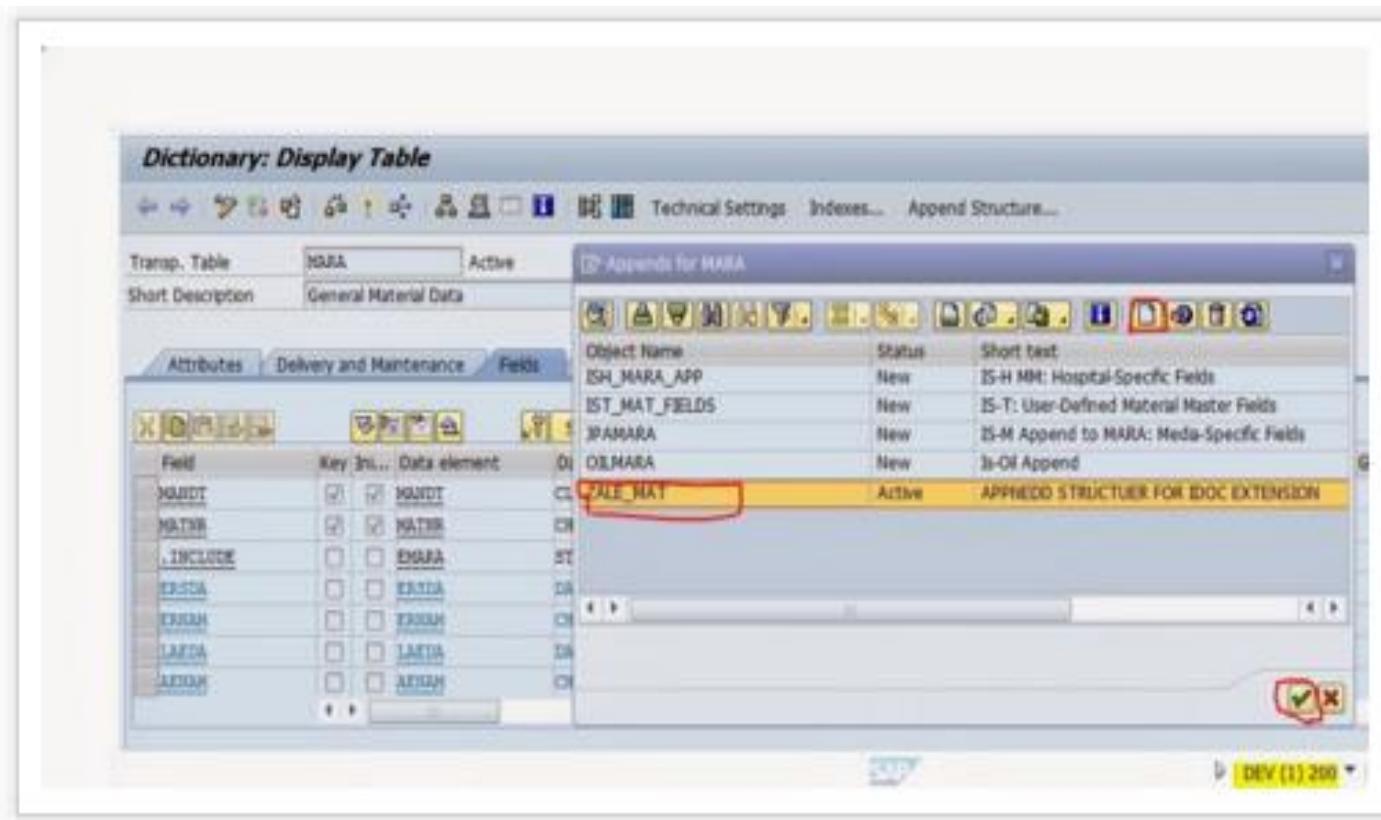
| Field   | Key In...                           | Data element | Data Type | Length | Ded... | Short Description                     |
|---------|-------------------------------------|--------------|-----------|--------|--------|---------------------------------------|
| MANDT   | <input checked="" type="checkbox"/> | MANDT        | CLNT      | 3      | 0      | Client                                |
| MATNR   | <input checked="" type="checkbox"/> | MATNR        | CHAR      | 18     | 0      | Material Number                       |
| INCLUDE | <input type="checkbox"/>            | EMARA        | STRUCT    | 0      | 0      | Data Division MARA                    |
| ERSDA   | <input type="checkbox"/>            | ERSDA        | DATS      | 8      | 0      | Created On                            |
| ERUAN   | <input type="checkbox"/>            | ERUAN        | CHAR      | 12     | 0      | Name of Person who Created the Object |
| LAIER   | <input type="checkbox"/>            | LAIER        | DATZ      | 8      | 0      | Date of Last Change                   |
| AERUAN  | <input type="checkbox"/>            | AERUAN       | CHAR      | 12     | 0      | Name of Person Who Changed Object     |

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- Step4. Click on the Create Button .



- Step5. Create the append structure and activate the same.

Dictionary: Display Append Structure

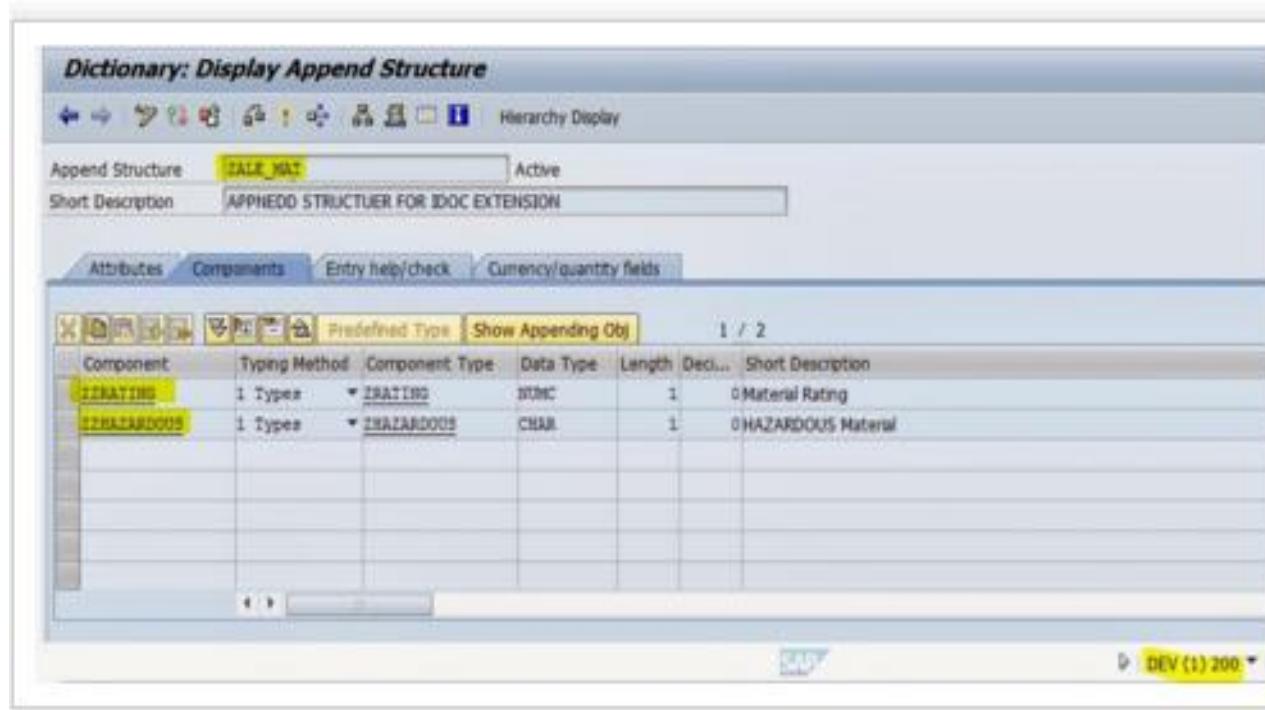
Append Structure: ZALE\_MAT Active  
Short Description: APPENDED STRUCTURE FOR IDOC EXTENSION

Attributes Components Entry help/check Currency/quantity fields

Predefined Type Show Appending Obj 1 / 2

| Component | Typing Method | Component Type | Data Type | Length | Dic... | Short Description  |
|-----------|---------------|----------------|-----------|--------|--------|--------------------|
| ZMATERIAL | 1 Types       | ZMATERIAL      | STMC      | 1      | 0      | Material Rating    |
| ZHAZAROUS | 1 Types       | ZHAZAROUS      | CHAR      | 1      | 0      | HAZARDOUS Material |

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- Step6. Activate the table.

**Dictionary: Display Table**

Tranp. Table **MARA** Active

Short Description General Material Data

Attributes Delivery and Maintenance Fields Entry Help/Check Currency/Quantity Fields

| Field       | Key                      | In...                    | Data element     | Data Type | Length | Dec... | Short Description                        |
|-------------|--------------------------|--------------------------|------------------|-----------|--------|--------|------------------------------------------|
| FIBER_CODES | <input type="checkbox"/> | <input type="checkbox"/> | WRF_FIBER_CODE_3 | CHAR      | 3      | 0      | Fiber Code for Textiles (Component 5)    |
| FIBER_PARTS | <input type="checkbox"/> | <input type="checkbox"/> | WRF_FIBER_PART_3 | WING      | 3      | 0      | Percentage Share of Fiber (Component 5)  |
| APPEND      | <input type="checkbox"/> | <input type="checkbox"/> | WRFM_APPEND00    | STRTU     | 0      | 0      | Slowseller Management: Degree of Fashion |
| FASHGRD     | <input type="checkbox"/> | <input type="checkbox"/> | FASHGRD          | CHAR      | 4      | 0      | Fashion Grade                            |
| APPEND0     | <input type="checkbox"/> | <input type="checkbox"/> | ZALF_MAT         | STWD      | 0      | 0      | APPEND0 STRUCTURE FOR IDOC EXTENSION     |
| FRATING     | <input type="checkbox"/> | <input type="checkbox"/> | ZFRATING         | WING      | 1      | 0      | Material Rating                          |
| SHAZARD005  | <input type="checkbox"/> | <input type="checkbox"/> | ZHAZARD005       | CHAR      | 1      | 0      | HAZARDOUS Material                       |

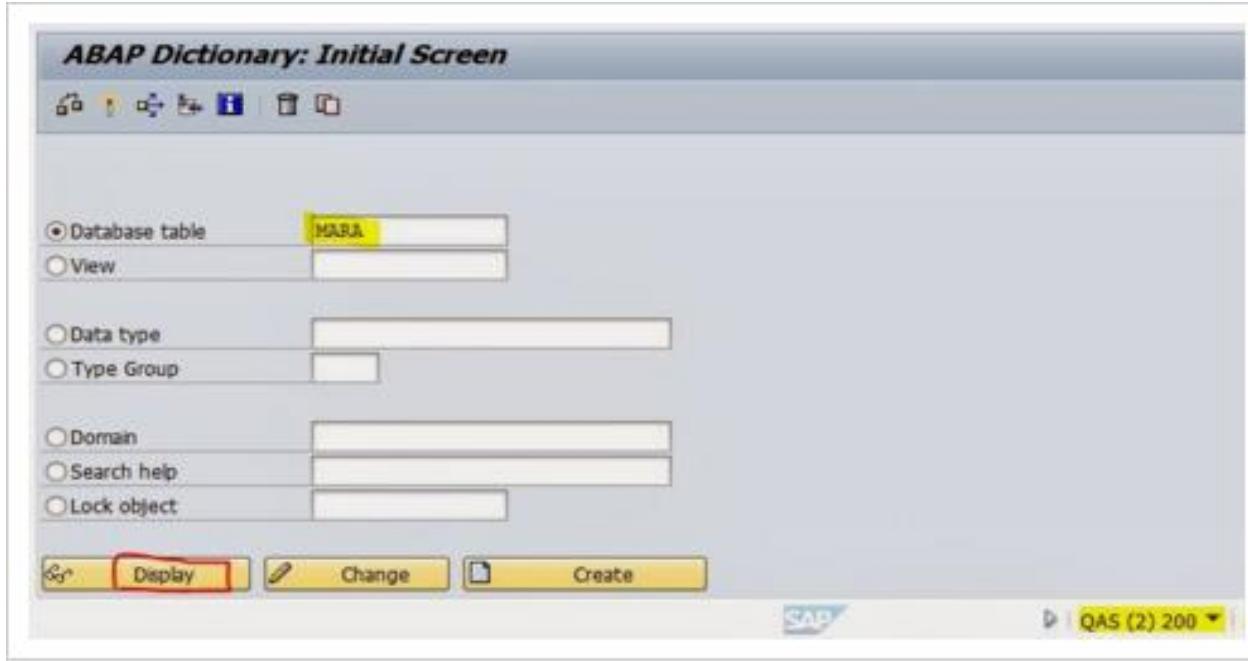
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- Step7. The same thing needs to be repeated in the receiver system. Go to Tcode- SE11 in the receiver system.



- Step8. Provide the table name and click on Display button.



- Step9. Click on the Append Structure button.

Dictionary: Display Table

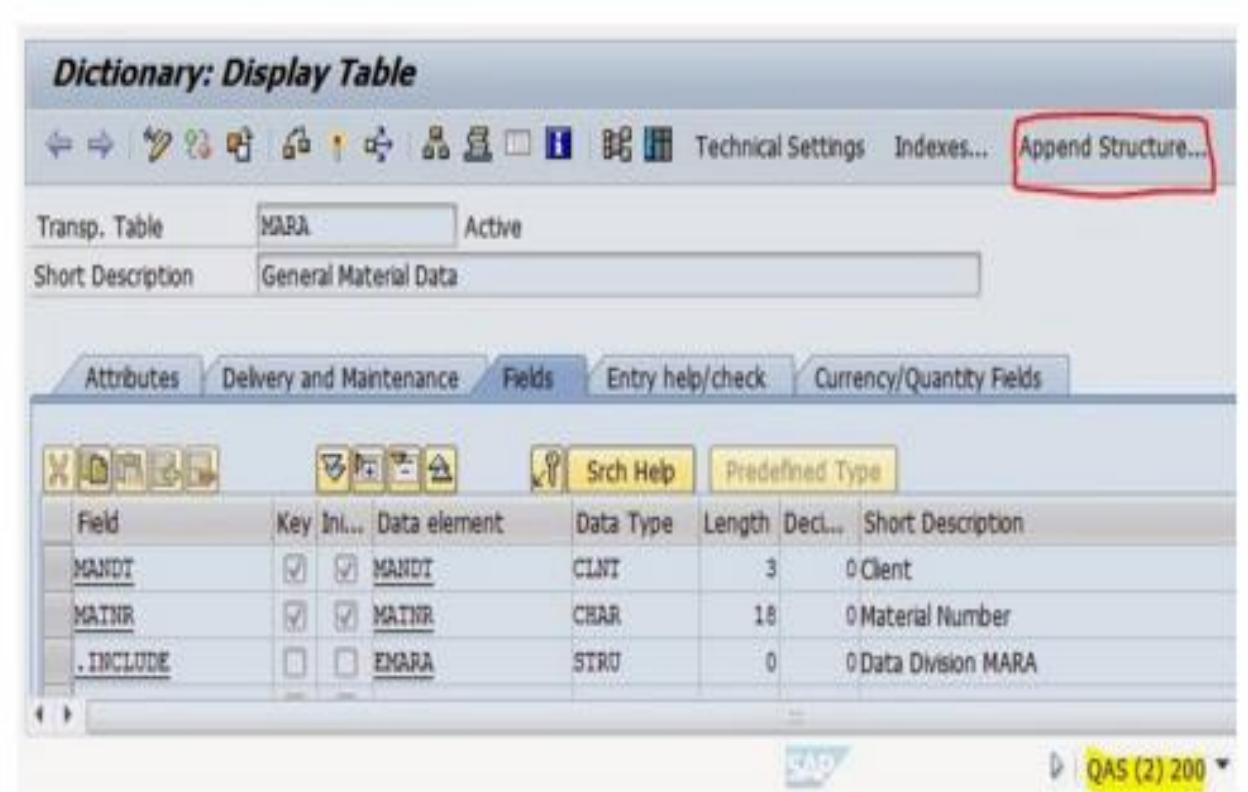
Transp. Table: MARA, Active  
Short Description: General Material Data

Append Structure... (highlighted)

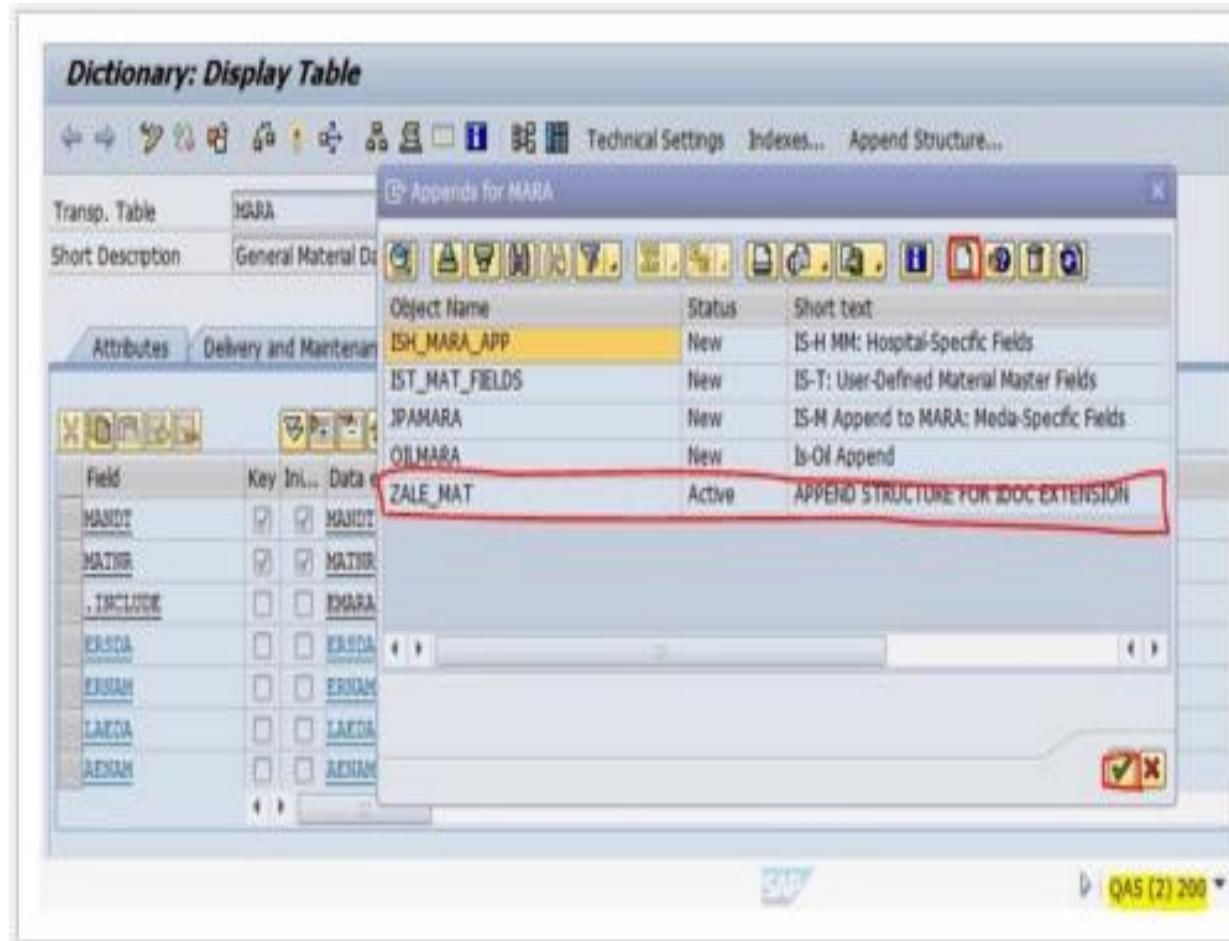
Attributes Delivery and Maintenance Fields Entry help/check Currency/Quantity Fields

| Field    | Key                                 | Inh...                              | Data element | Data Type | Length | Decl... | Short Description  |
|----------|-------------------------------------|-------------------------------------|--------------|-----------|--------|---------|--------------------|
| MANDT    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | MANDT        | CLNT      | 3      | 0       | Client             |
| MATNR    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | MATNR        | CHAR      | 18     | 0       | Material Number    |
| .INCLUDE | <input type="checkbox"/>            | <input type="checkbox"/>            | ENARA        | STRU      | 0      | 0       | Data Division MARA |

SAP QAS (2) 200



- Step10. Click on the Create button.



- Step11. Create the append structure with fields and activate the same.

**Dictionary: Display Append Structure**

Append Structure **ZALM\_MAT** Active

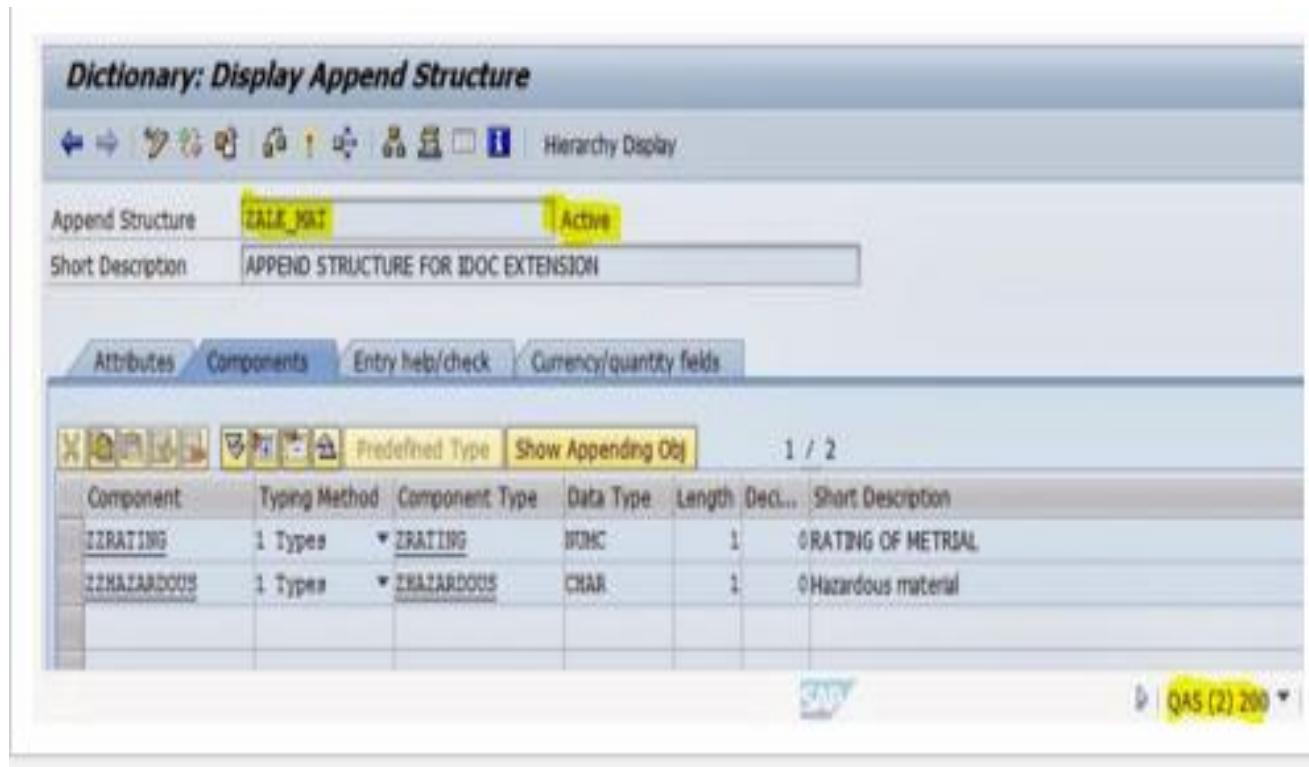
Short Description APPEND STRUCTURE FOR IDOC EXTENSION

Attributes Components Entry help/check Currency/quantity fields

Predefined Type Show Appending Obj 1 / 2

| Component  | Typing Method | Component Type | Data Type | Length | Dec... | Short Description  |
|------------|---------------|----------------|-----------|--------|--------|--------------------|
| ZRATING    | 1 Types       | *ZRATING       | IFNC      | 1      | 0      | RATING OF MATERIAL |
| ZHAZARDOUS | 1 Types       | *ZHAZARDOUS    | CHAR      | 1      | 0      | Hazardous material |

QAS (2) 200



- Step12. Activate the table.

**Dictionary: Display Table**

Transp. Table **MARA** **ACTIVE**

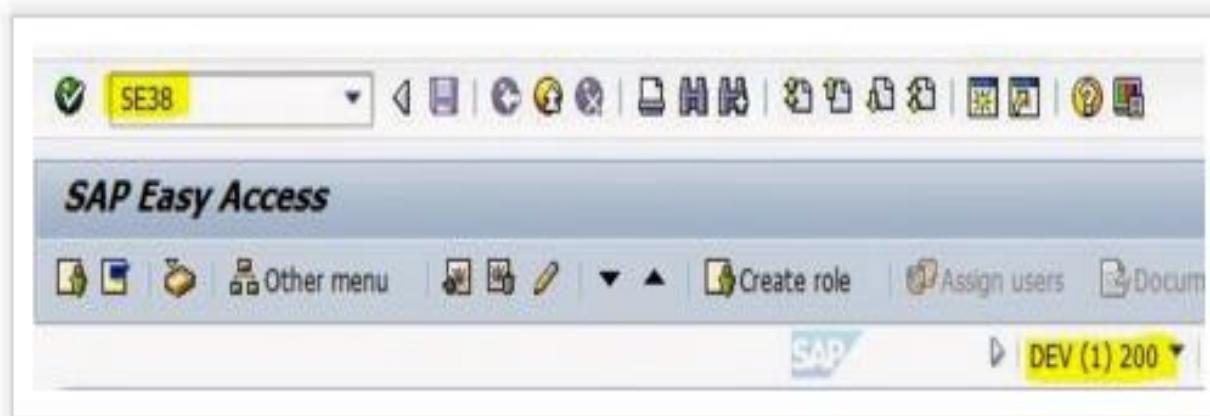
Short Description: General Material Data

Attributes Delivery and Maintenance Fields **Entry help/check** Currency/Quantity Fields

| Field       | Key Incl.                | Data element                                   | Data Type | Length | Dec... | Short Description                         |
|-------------|--------------------------|------------------------------------------------|-----------|--------|--------|-------------------------------------------|
| FIBER_CODES | <input type="checkbox"/> | <input type="checkbox"/> MRF_FIBER_CODE_5 CHAR | CHAR      | 3      | 0      | Fiber Code for Textiles (Component 5)     |
| FIBER_PARTS | <input type="checkbox"/> | <input type="checkbox"/> MRF_FIBER_PART_5 NMC  | NMC       | 3      | 0      | Percentage Share of Fiber (Component 5)   |
| .APPEND     | <input type="checkbox"/> | <input type="checkbox"/> MSH_EFASHNGRD         | STRD      | 0      | 0      | Salesperson Management: Degree of Fashion |
| FASHGRD     | <input type="checkbox"/> | <input type="checkbox"/> FASHGRD               | CHAR      | 4      | 0      | Fashion Grade                             |
| .APPEND     | <input type="checkbox"/> | <input type="checkbox"/> ZALE_MAT              | STRD      | 0      | 0      | APPEND STRUCTURE FOR IDOC EXTENSION       |
| ZRATING     | <input type="checkbox"/> | <input type="checkbox"/> ZRATING               | NMC       | 1      | 0      | RATING OF MATERIAL                        |
| ZHAZARDOUS  | <input type="checkbox"/> | <input type="checkbox"/> ZHAZARDOUS            | CHAR      | 1      | 0      | Hazardous material                        |

SAP | QAS (2) 200

- Step13. In order to capture the enhanced field information, necessary fields can be added in the MM01 transaction or a simple report can be created to capture the extra field details. So Go to Tcode- SE38 and create a report program in the sender system.



- Step14. Provide the report name and click on create button.



- Step15. Provide the below code and activate it.

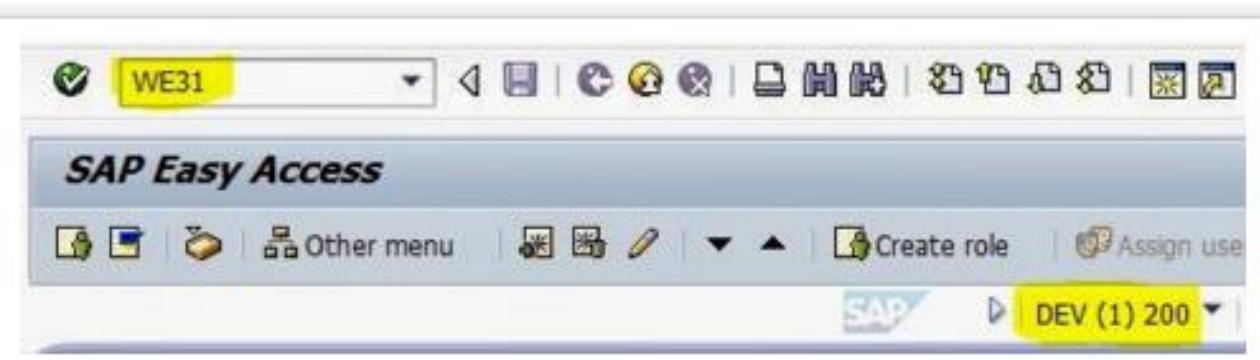
Report ZUPDATE\_MARA Active

```

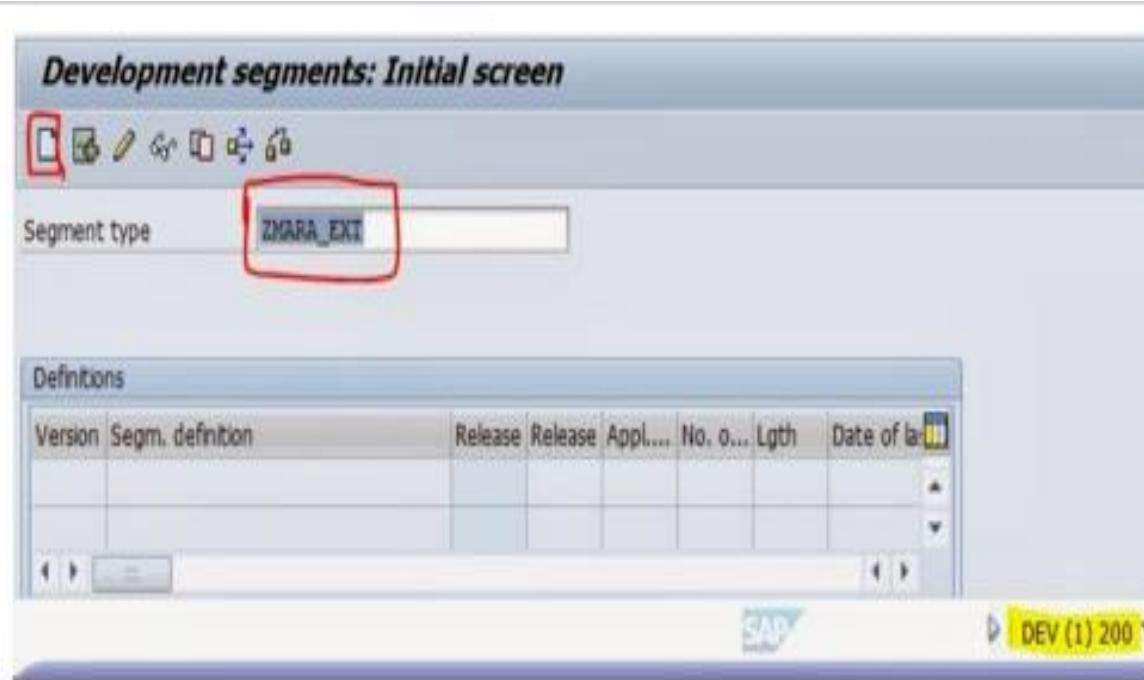
1 REPORT zupdate_mara.
2 TABLES : mara.
3 SELECTION-SCREEN : BEGIN OF BLOCK b1.
4 PARAMETERS: p_matnr TYPE mara-matrnr OBLIGATORY,
5 p_ratng TYPE mara-zzrating,
6 p_hazard TYPE mara-zzhazardous.
7 PARAMETERS : ch AS CHECKBOX.
8 SELECTION-SCREEN : END OF BLOCK b1.
9 START-OF-SELECTION.
10 SELECT SINGLE * FROM mara WHERE matnr = p_matnr.
11 IF sy-subrc = 0.
12 IF ch = 'X'.
13 UPDATE mara SET zzrating = p_ratng
14 zzhazardous = p_hazard
15 WHERE matnr = p_matnr.
16 IF sy-subrc = 0.
17 MESSAGE 'MARA TABLE UPDATED' TYPE 'I'.
18 ELSE.
19 MESSAGE 'TABLE NOT UPDATERD' TYPE 'E'.
20 ENDIF.
21 ELSE.
22 MESSAGE 'UPDATE NOT SELECTED' TYPE 'E'.
23 ENDIF.
24 ELSE.
25 MESSAGE 'NO RECORD FOUND' TYPE 'E'.
26 ENDIF.

```

- Step16. To create a custom segment, go to Tcode- WE31 in the sender system.



- Step17. Provide the segment name as : ZMARA\_EXT & click on Create button.



- Step18. Provide the description, two fields and Save it and at last go Back.

**Development segments: Change segment definition ZMARA\_EXT000**

New Fields

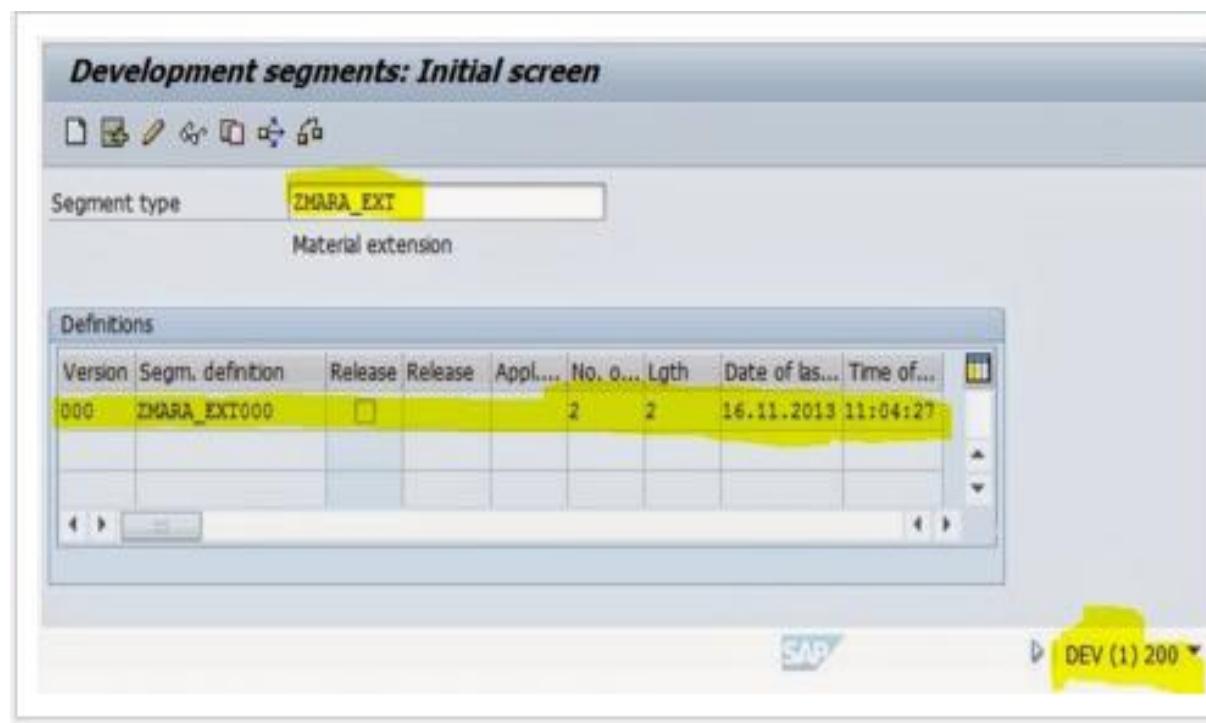
| Segment type attributes |                    |                                            |  |  |  |
|-------------------------|--------------------|--------------------------------------------|--|--|--|
| Segment type            | ZMARA_EXT          | <input type="checkbox"/> Qualified segment |  |  |  |
| Short Description       | Material extension |                                            |  |  |  |
| Segm. definition        | ZMARA_EXT000       | <input type="checkbox"/> Released          |  |  |  |
| Last Changed By         | DEVELOPER          |                                            |  |  |  |

| Po... | Field Name  | Data element | ISO code fld             | Export leng |  |
|-------|-------------|--------------|--------------------------|-------------|--|
| 1     | ZZRATING    | ZRATING      | <input type="checkbox"/> | 1           |  |
| 2     | ZZHAZARDOUS | ZHAZARDOUS   | <input type="checkbox"/> | 1           |  |
| 3     |             |              | <input type="checkbox"/> |             |  |
| 4     |             |              | <input type="checkbox"/> |             |  |

Segment definition ZMARA\_EXT000 was saved as local object

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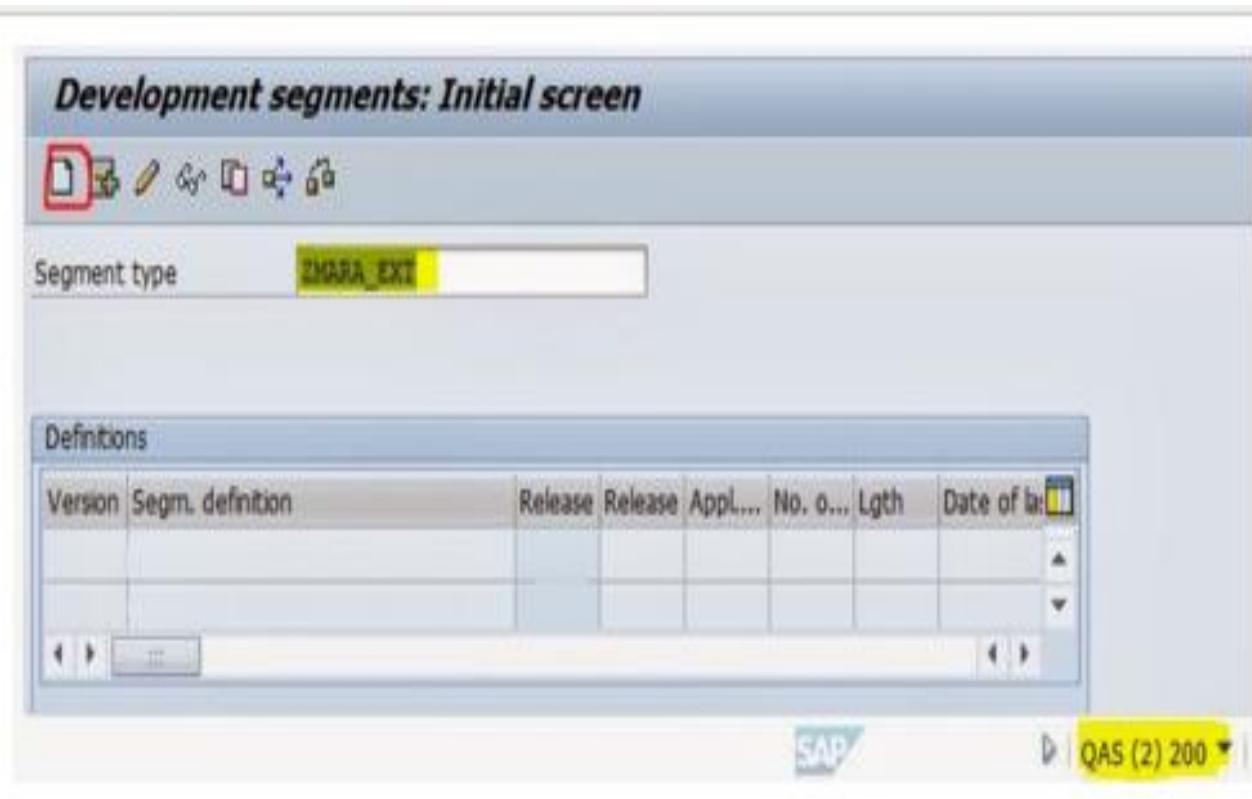
- Step19. The Segment is created in the sender system.  
Repeat the same step in the receiver system.



- Step20. To create a custom segment, go to Tcode- WE31 in the receiver system.



- Step21. Provide the segment name as : ZMARA\_EXT & click on Create button.



- Step22. Provide the description, two fields and Save it and at last go Back.

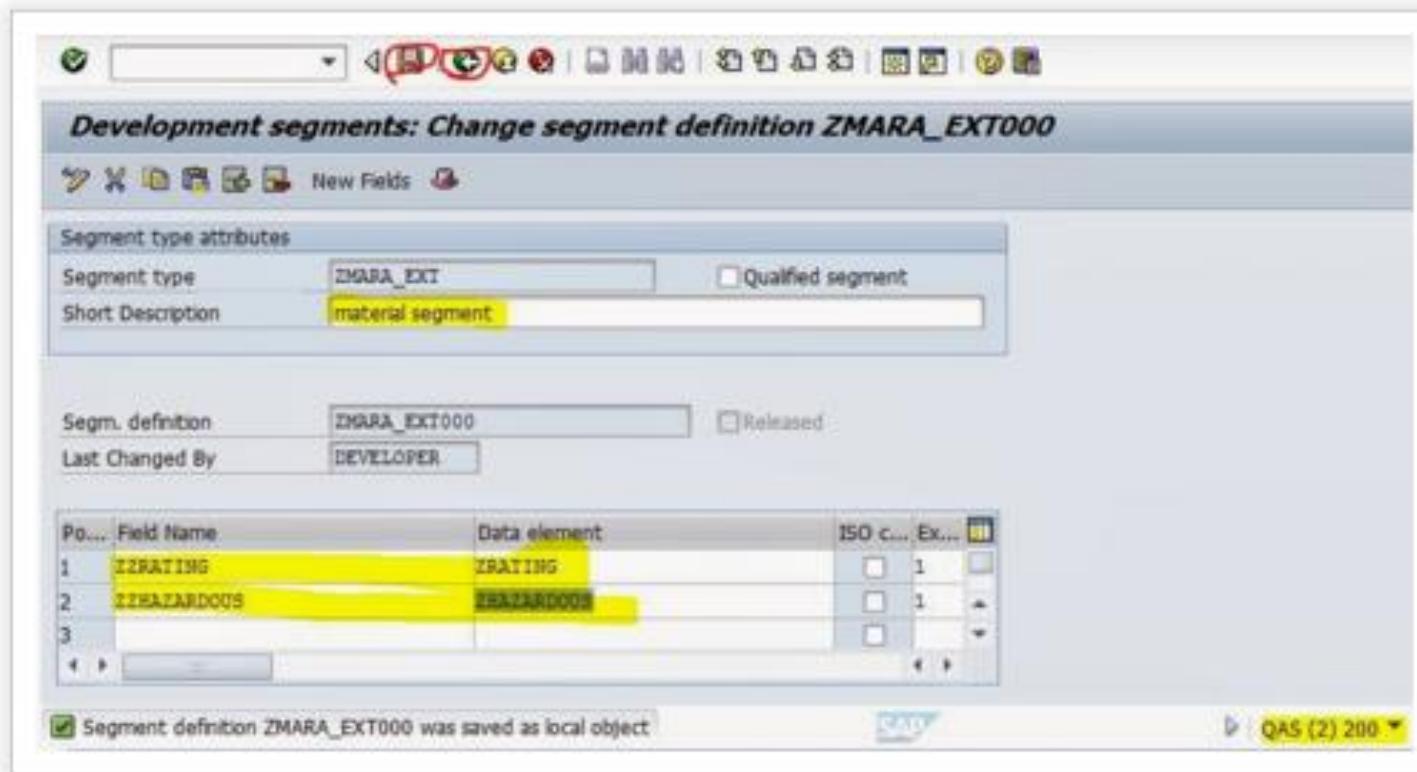
**Development segments: Change segment definition ZMARA\_EXT000**

New Fields

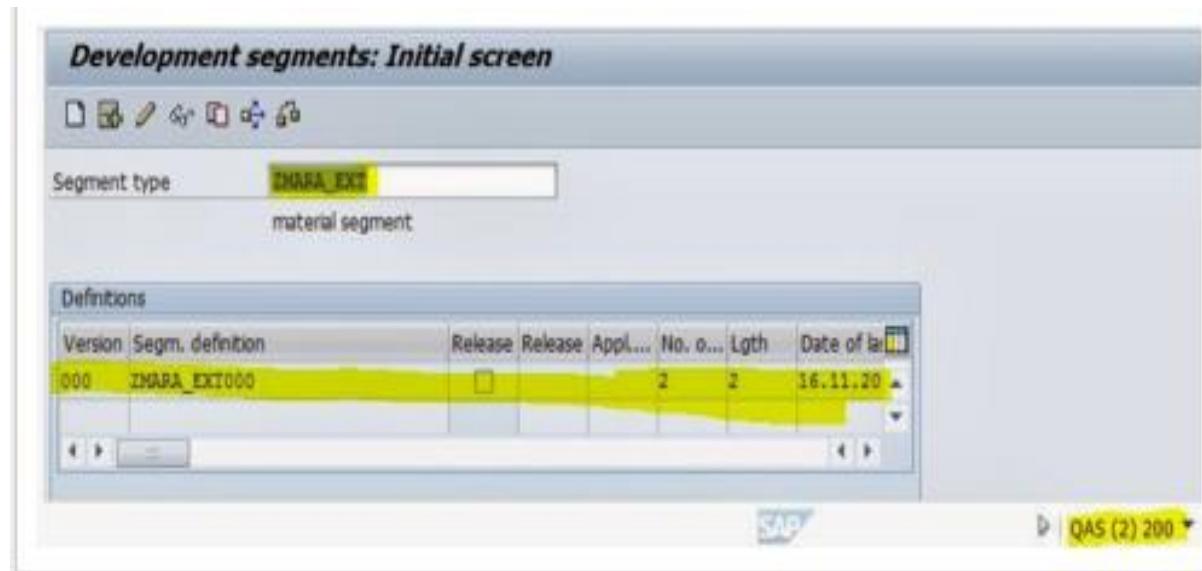
|                                     |                                            |                            |
|-------------------------------------|--------------------------------------------|----------------------------|
| Segment type attributes             |                                            |                            |
| Segment type: ZMARA_EXT             | <input type="checkbox"/> Qualified segment |                            |
| Short Description: material segment |                                            |                            |
| Segm. definition: ZMARA_EXT000      | <input type="checkbox"/> Released          |                            |
| Last Changed By: DEVELOPER          |                                            |                            |
| Po... Field Name                    | Data element                               | ISO c... Ex...             |
| 1 ZZRATING                          | ZRATING                                    | <input type="checkbox"/> 1 |
| 2 ZZHAZARDOUS                       | ZZHAZARDOUS                                | <input type="checkbox"/> 1 |
| 3                                   |                                            |                            |

Segment definition ZMARA\_EXT000 was saved as local object

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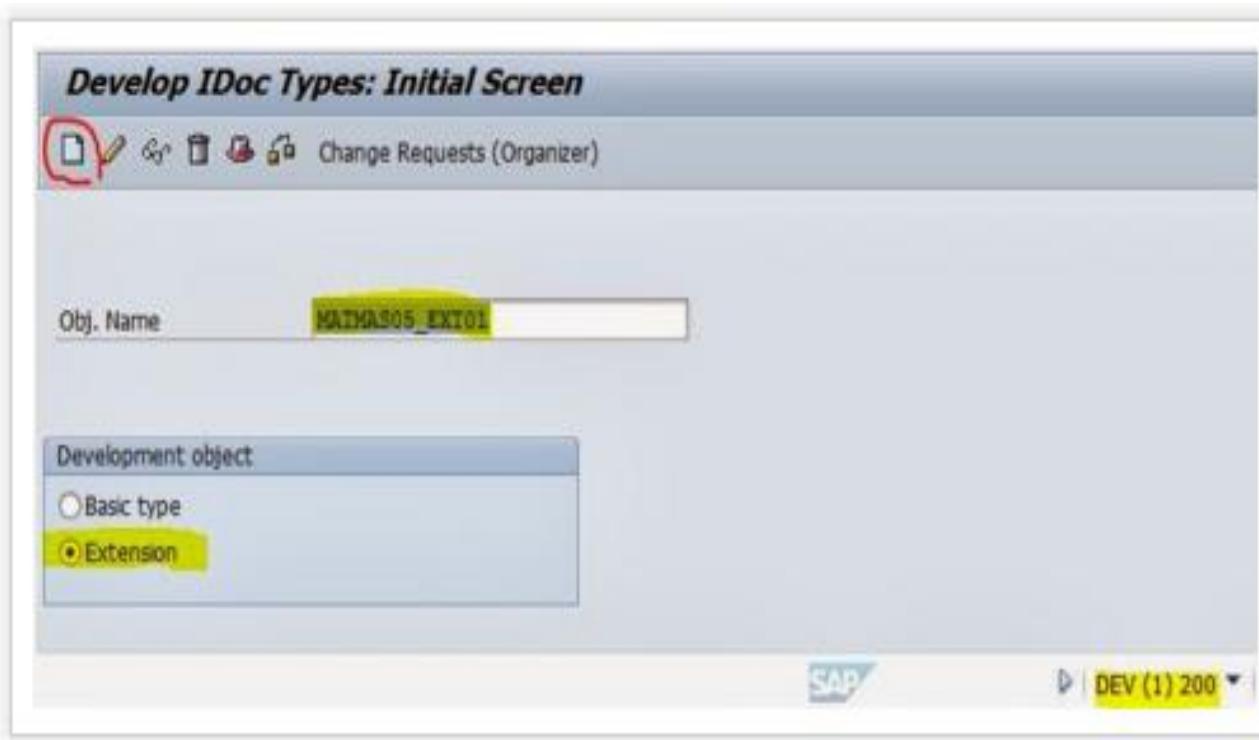
- Step23. The Segment is created in the receiver system.



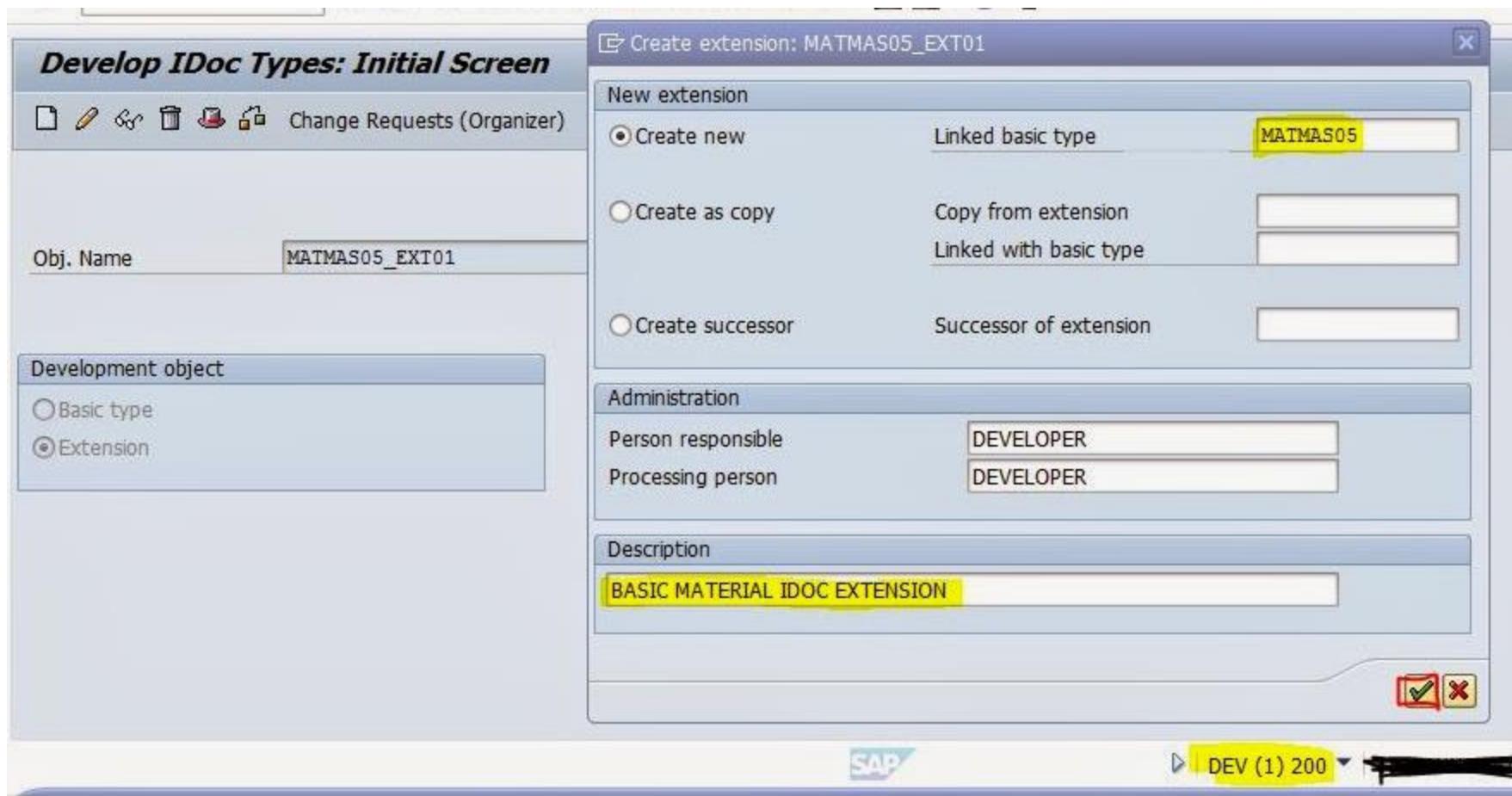
- Step24. Create an extended Idoc in the sender system.  
Go to Tcode- WE30.



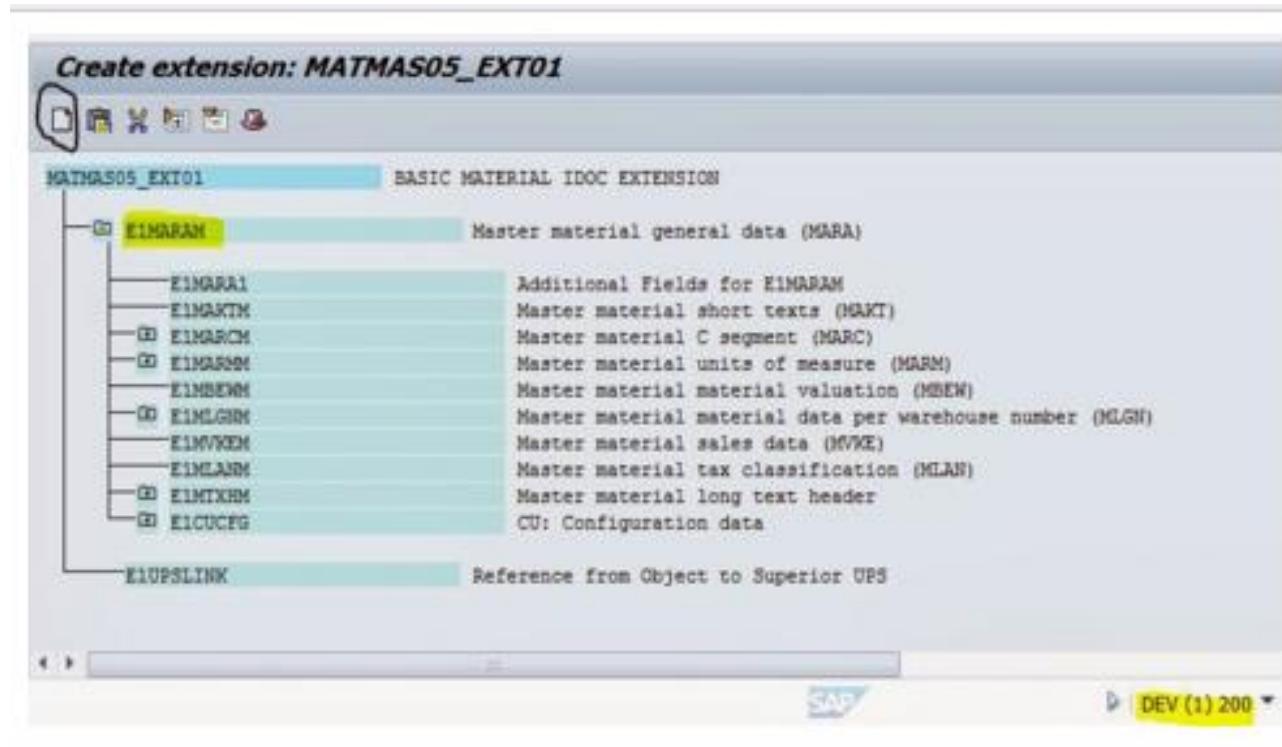
- Step25. Provide the name and select the Extension Radio Button and click on Create Button.



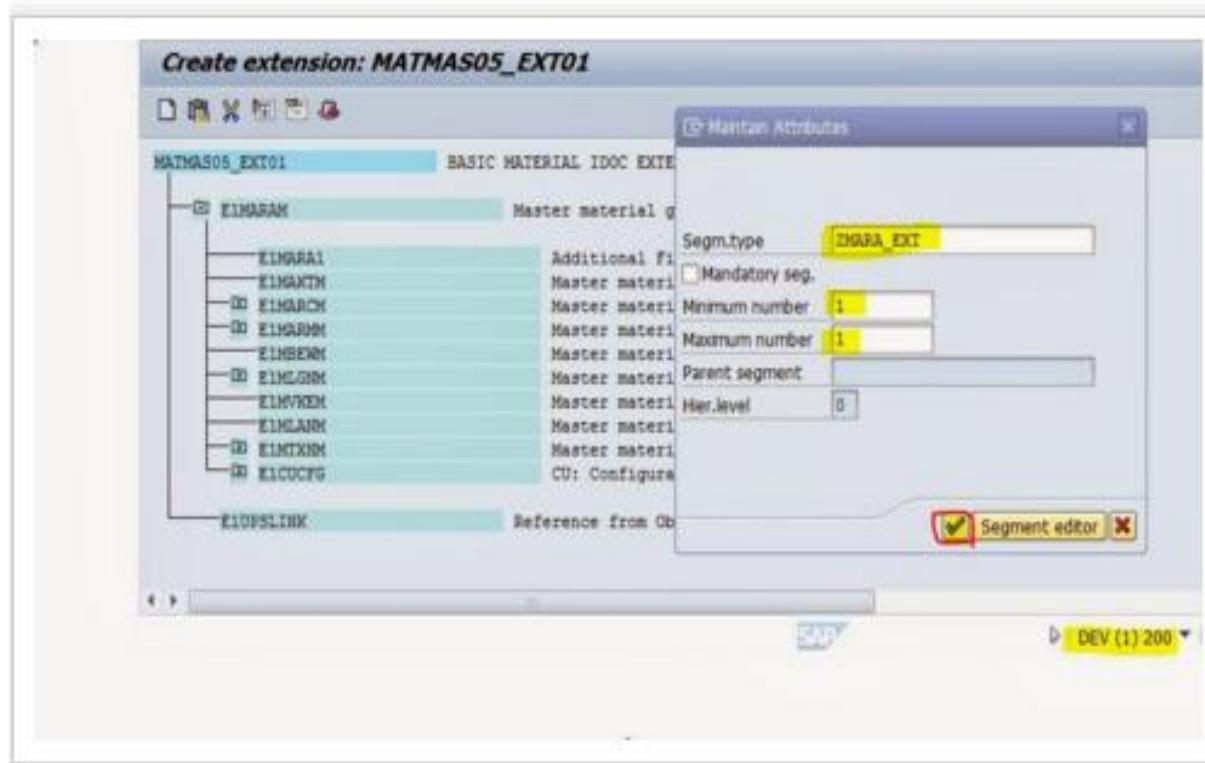
- Step26. Provide the Basic Idoc name to be extended, provide the short description and click on continue button.



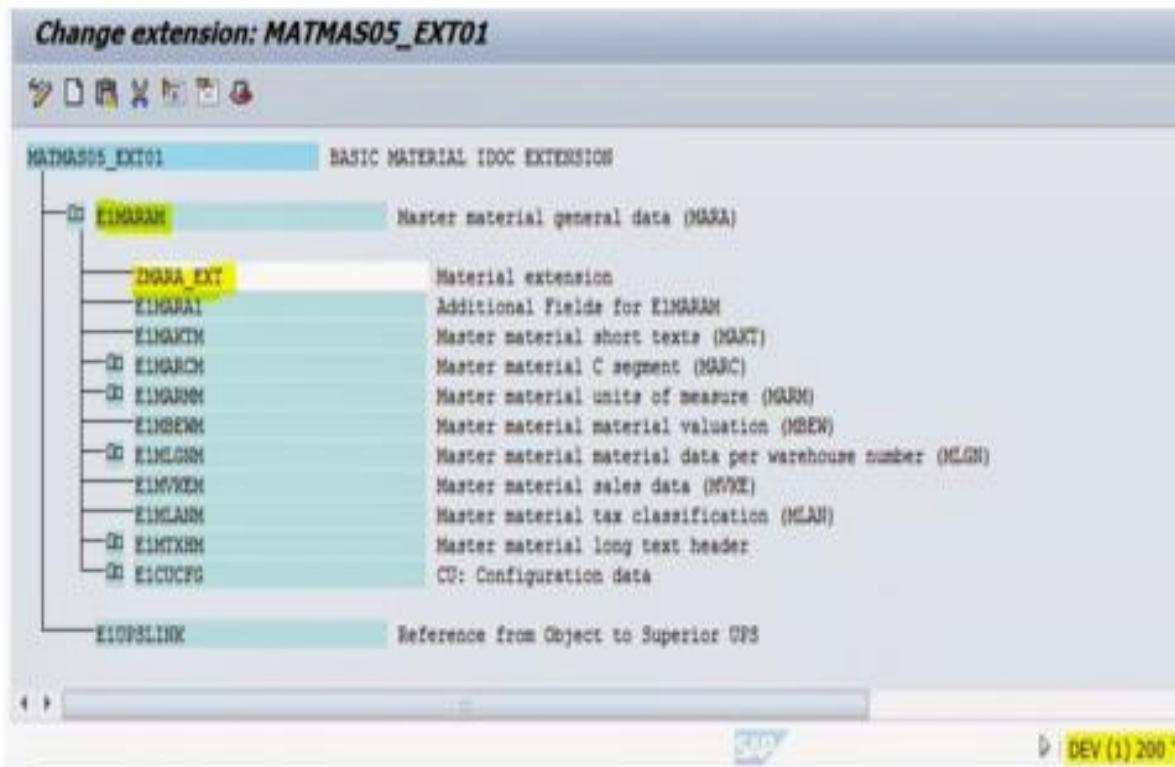
- Step27. Select the Segment 'E1MARAM' and click on create button.



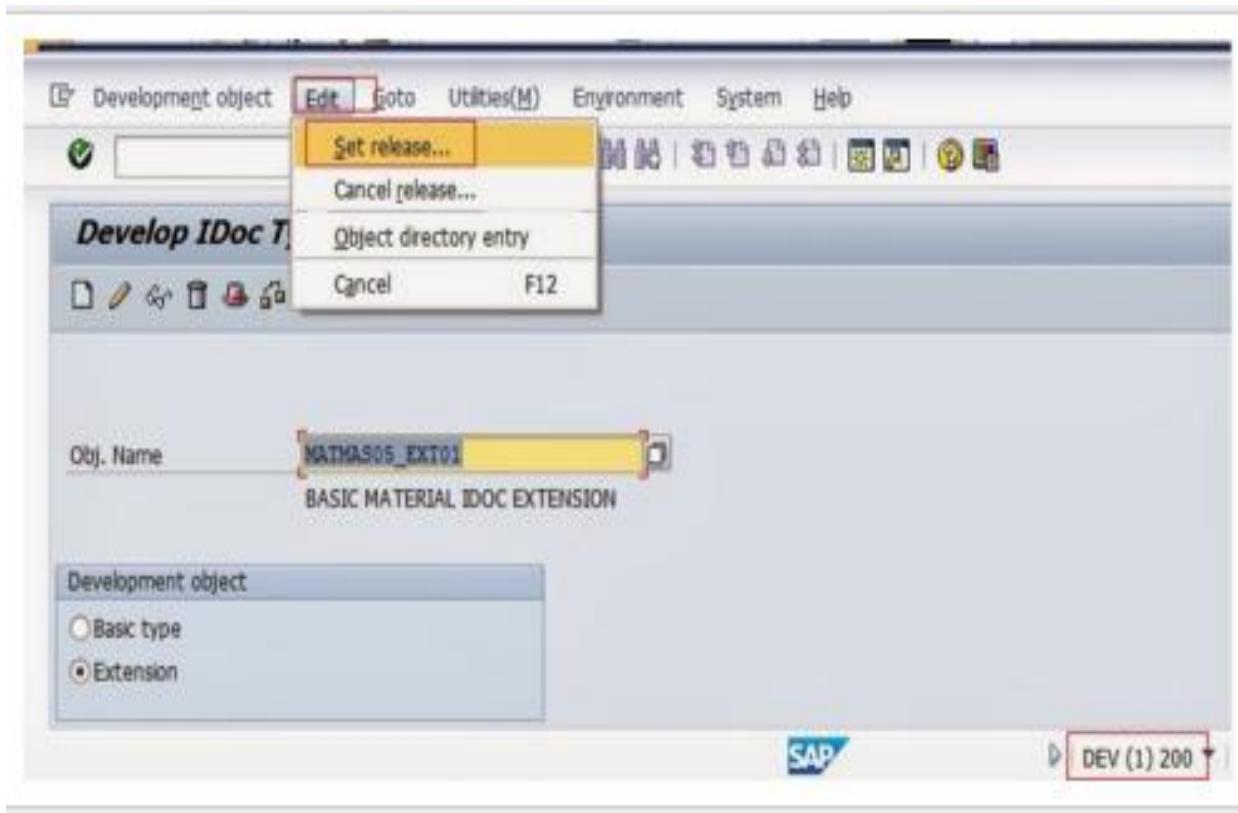
- Step28. Provide the Segment Name and click on Continue button.



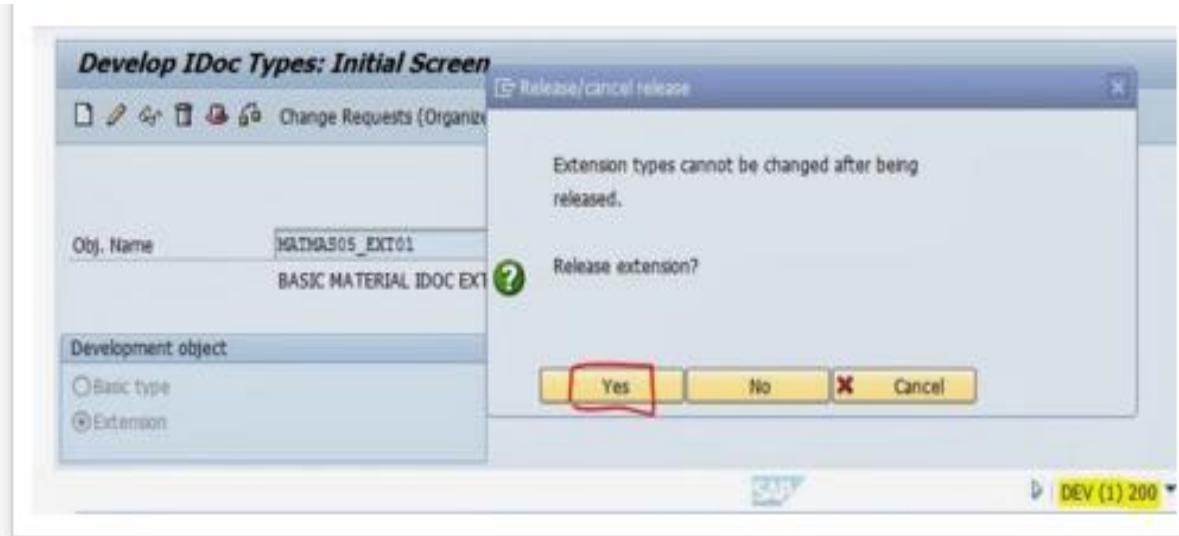
- Step29. The Segment is properly added. Save it and Go Back.



- Step30. Release the Extended Idoc.



- Step31. Click on Save button.



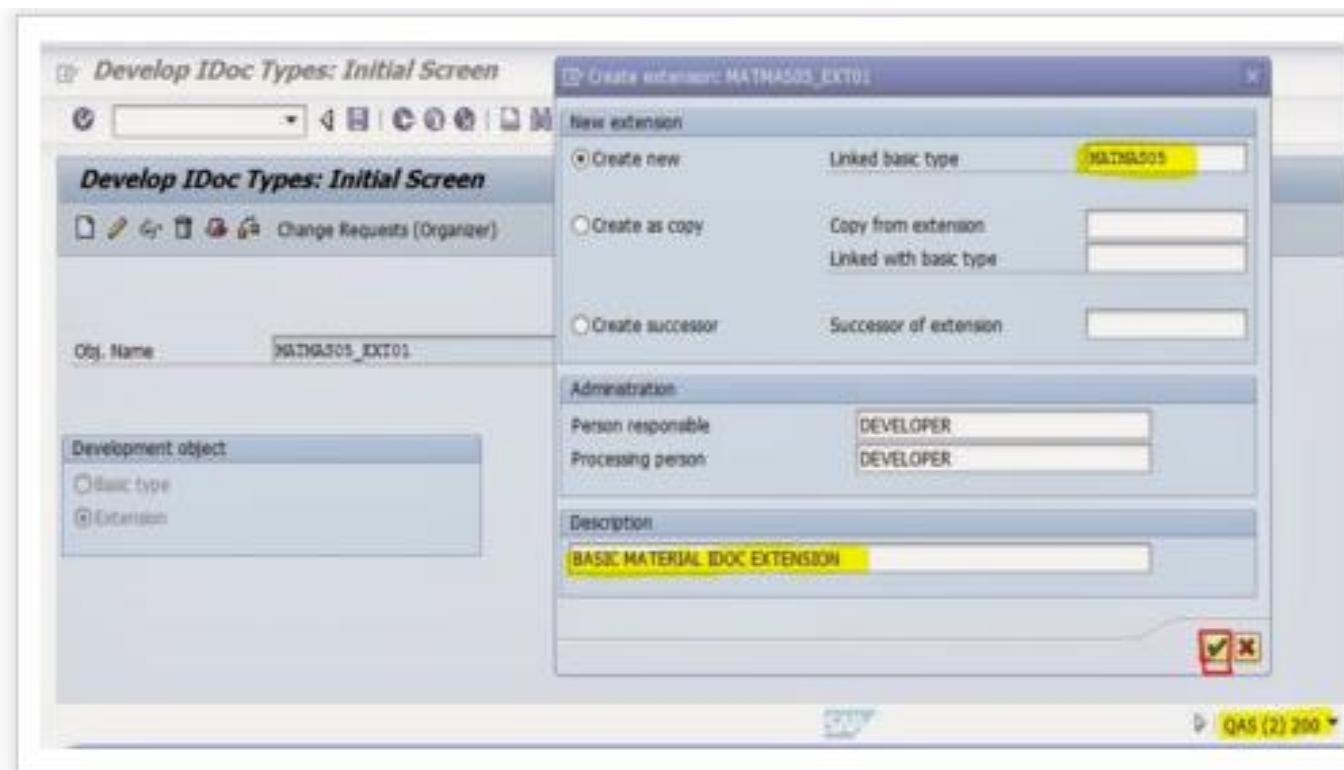
- Step32. Create an extended Idoc in the receiver system.  
Go to Tcode- WE30.



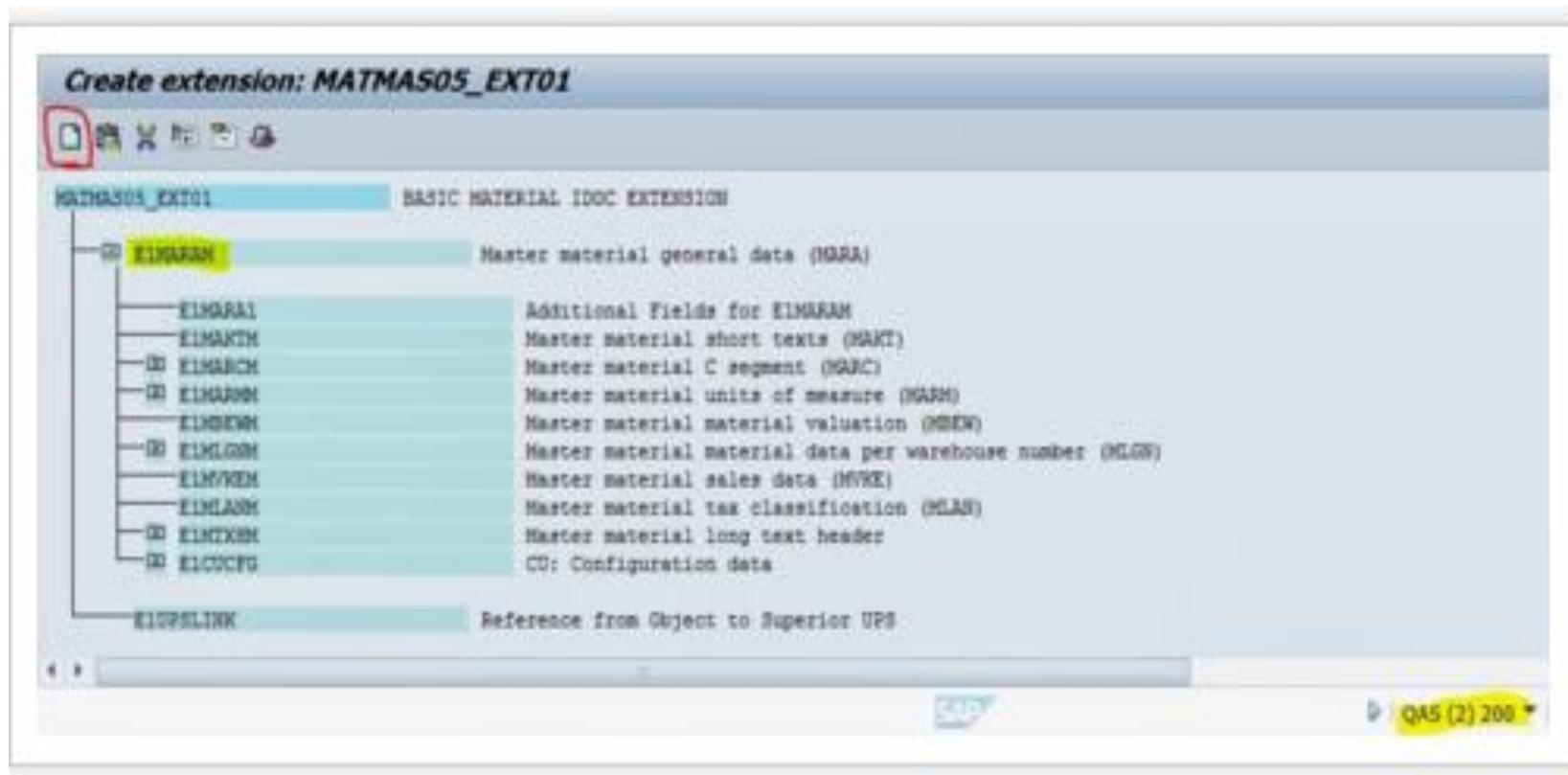
- Step33. Provide Name, select the Extension Radio Button and click on Create Button.



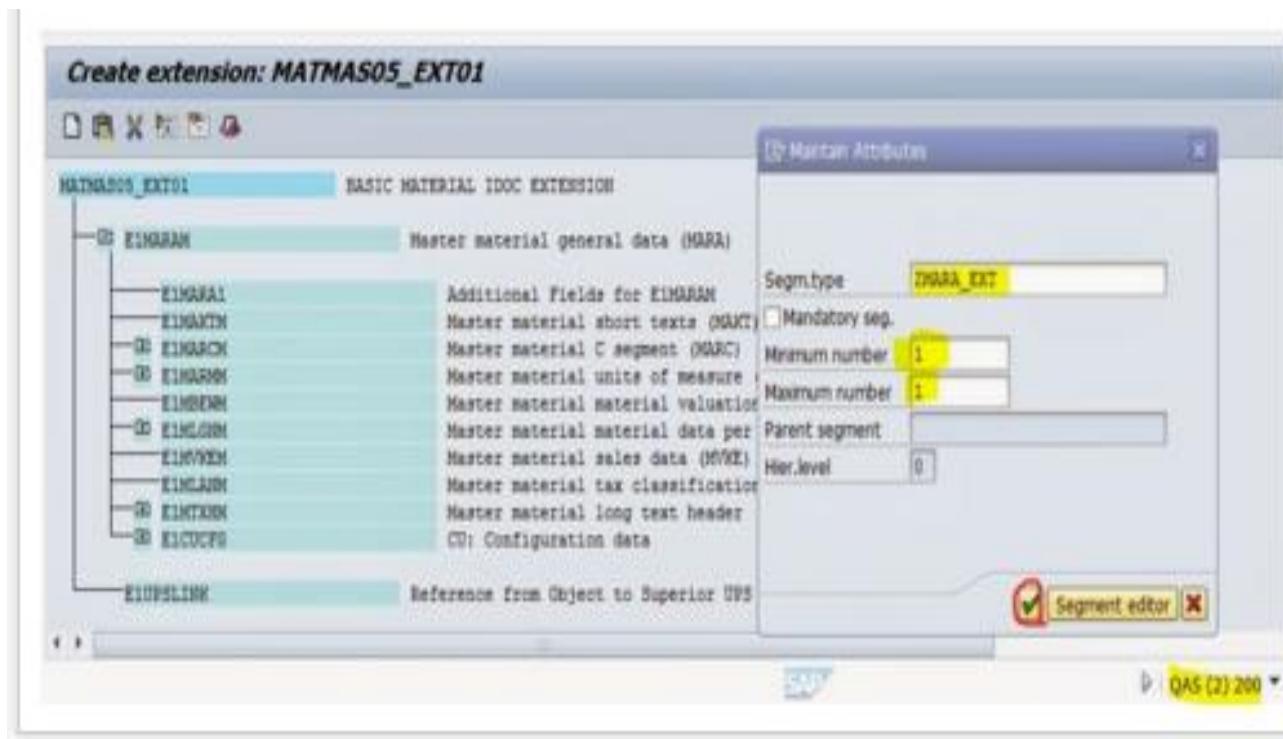
- Step34. Provide the Basic IDoc name, Provide the short text and click on continue button.



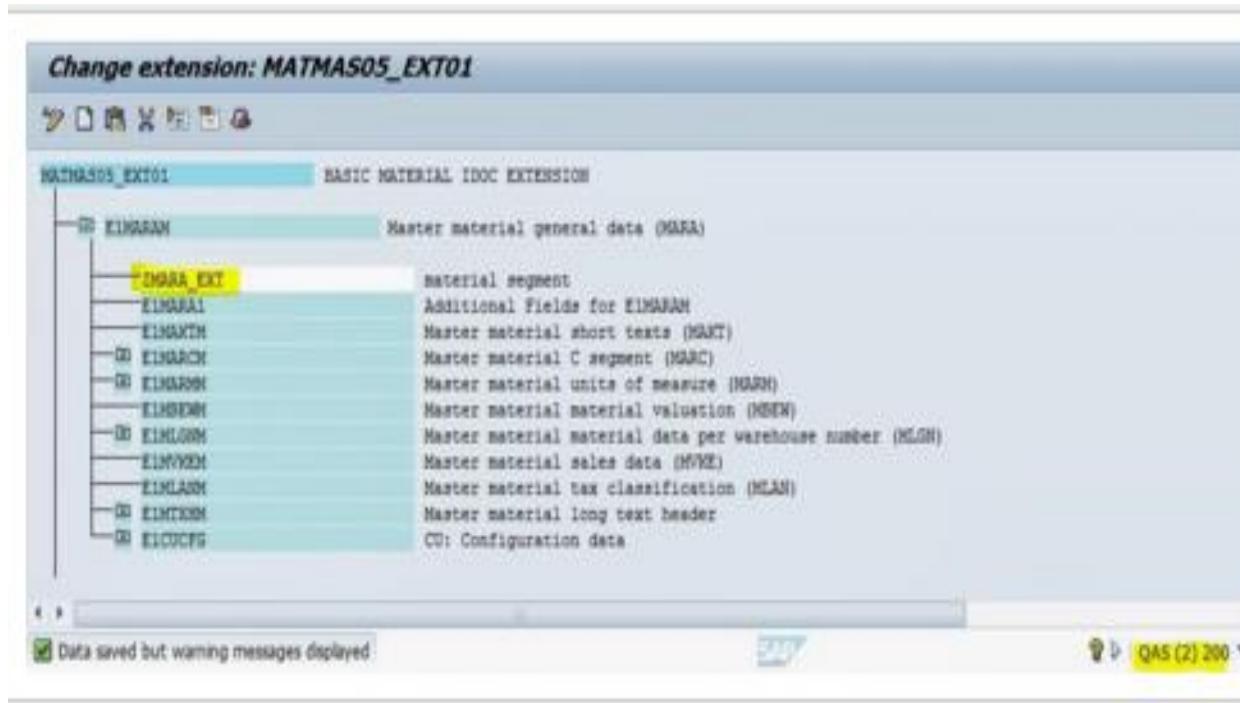
- Step35. Select the Segment 'E1MARAM' and click on create button.



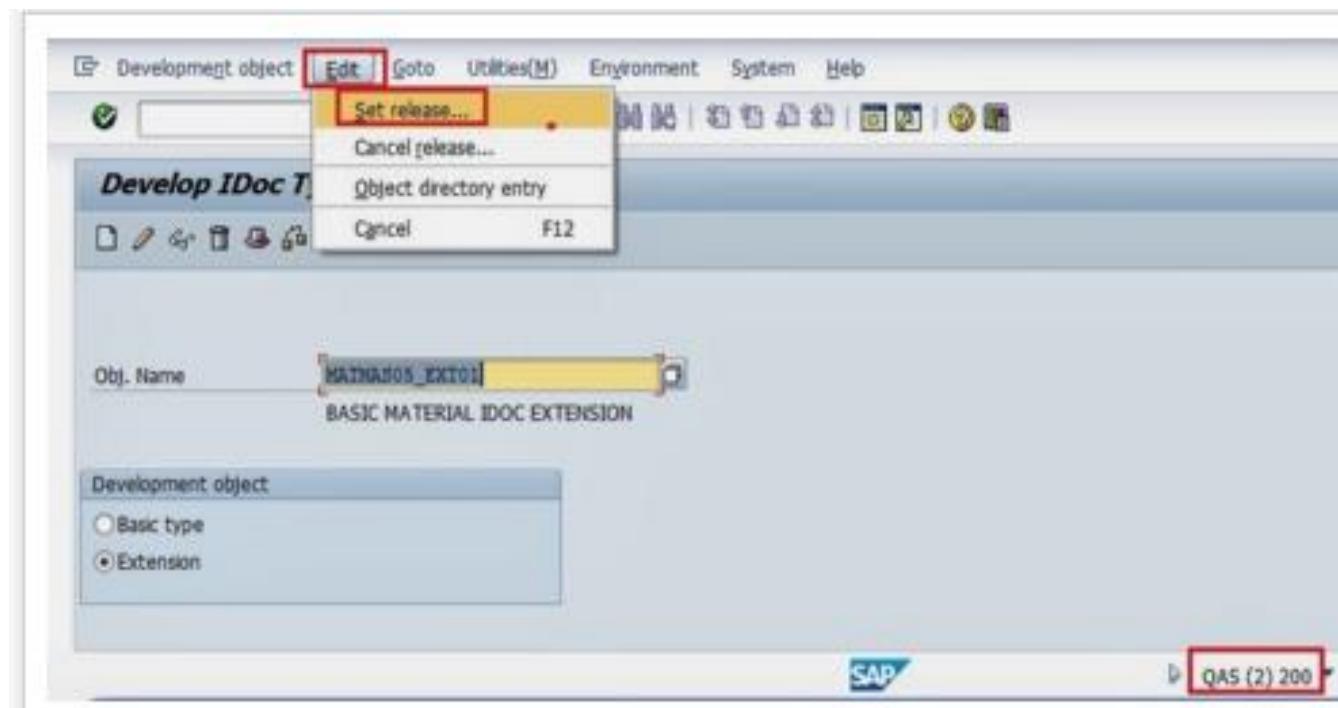
- Step36. Provide the Segment Name and click on Continue button.



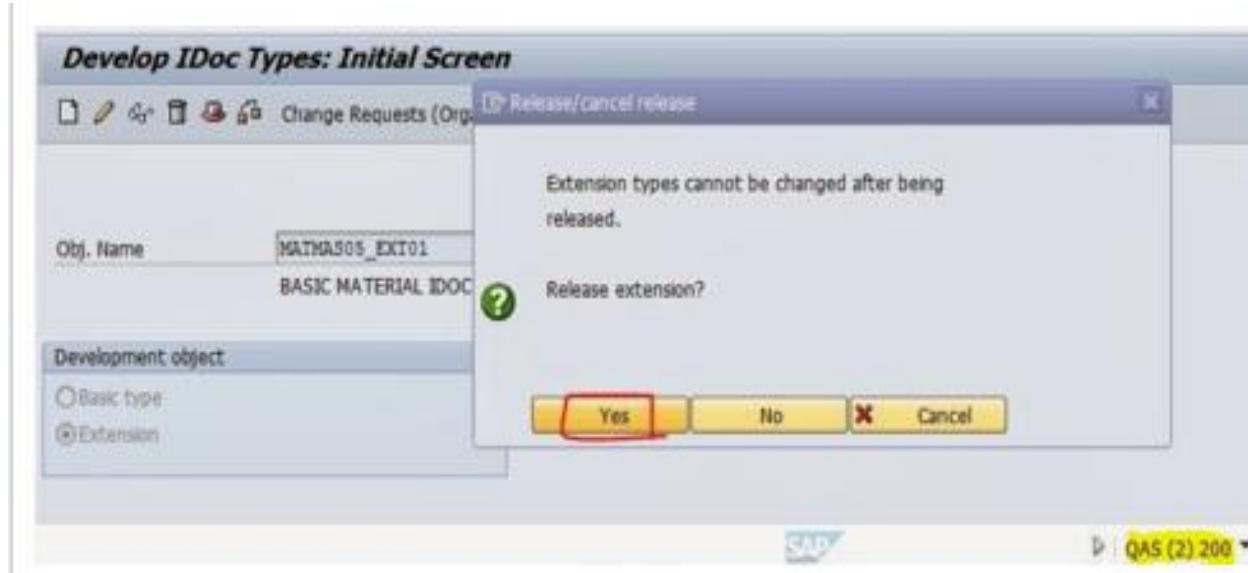
- Step37. The Segment is properly added. Save it and Go Back.



- Step38. Release the Extended Idoc.



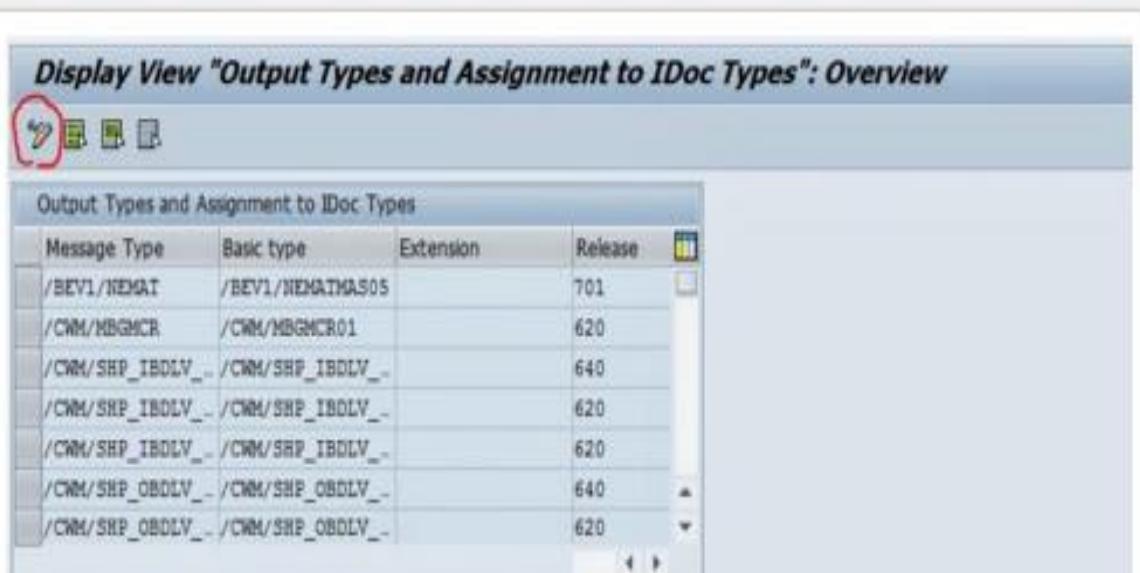
- Step39. Confirm it by clicking on the Yes Button.



- Step40. To assign the extended IDoc to the message type. Go to Tcode- WE82 in the sender system.



- Step41. Click on the Change button.



The screenshot shows a SAP Fiori application window titled "Display View 'Output Types and Assignment to IDoc Types': Overview". The toolbar contains several icons, with the first one (a pencil inside a circle) being circled in red. The main area displays a table with four columns: "Message Type", "Basic type", "Extension", and "Release". The data in the table is as follows:

| Message Type     | Basic type       | Extension | Release |
|------------------|------------------|-----------|---------|
| /BEV1/NEMAT      | /BEV1/NEMATMAS05 |           | 701     |
| /CWM/HBGMCR      | /CWM/HBGMCR01    |           | 620     |
| /CWM/SHP_IBDLV_- | /CWM/SHP_IBDLV_- |           | 640     |
| /CWM/SRP_IBDLV_- | /CWM/SRP_IBDLV_- |           | 620     |
| /CWM/SRP_IBDLV_- | /CWM/SRP_IBDLV_- |           | 620     |
| /CWM/SHP_OBDLV_- | /CWM/SHP_OBDLV_- |           | 640     |
| /CWM/SRP_OBDLV_- | /CWM/SRP_OBDLV_- |           | 620     |

- Step42. Click on the New Entries Button.

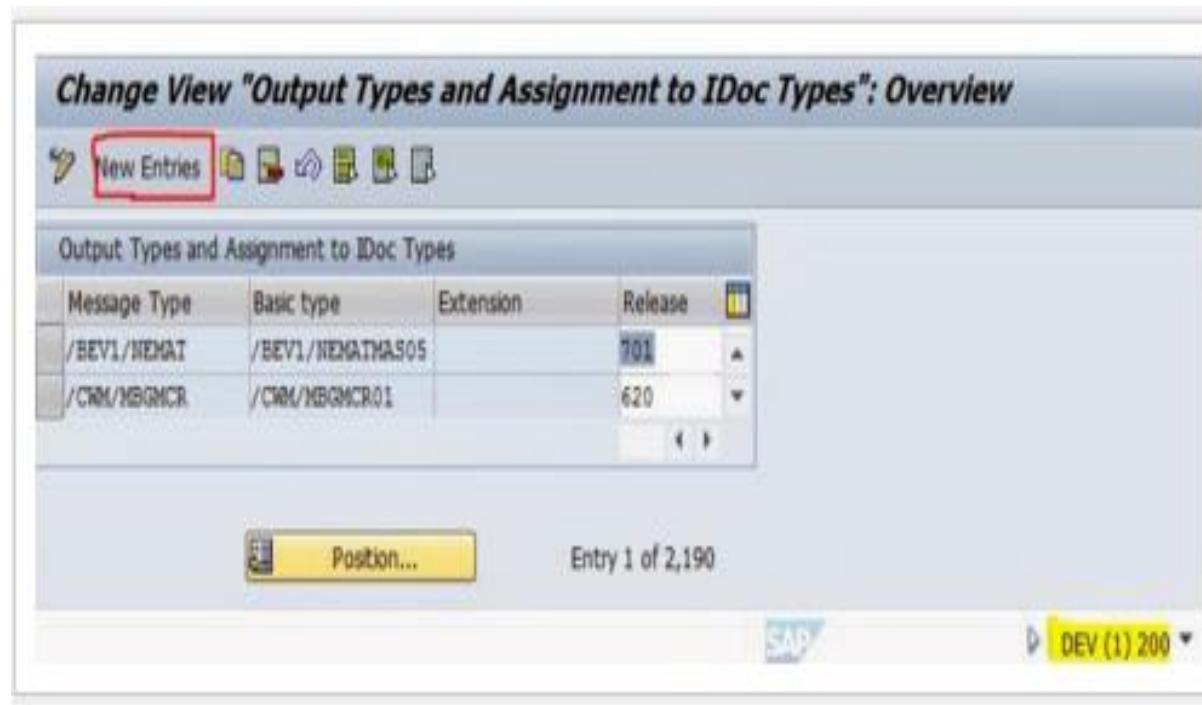
*Change View "Output Types and Assignment to IDoc Types": Overview*

New Entries

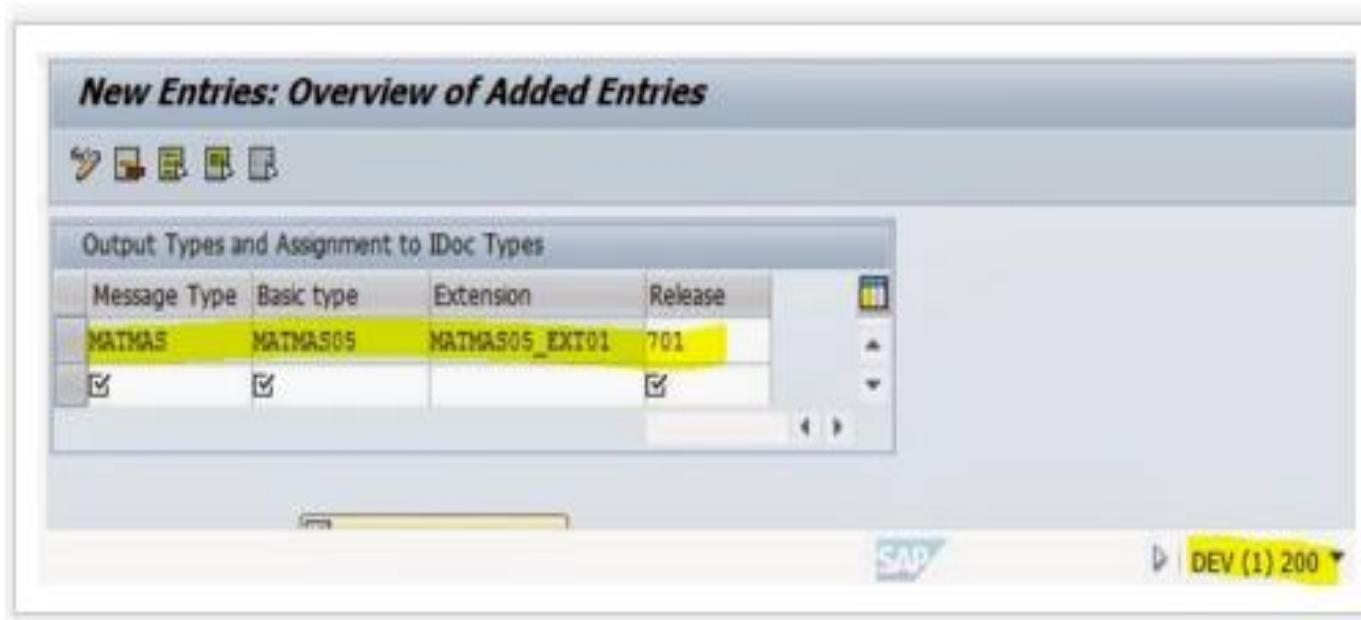
| Message Type | Basic type        | Extension | Release |
|--------------|-------------------|-----------|---------|
| /BEV1/NEMAT  | /BEV1/NEMATHMAS05 |           | 701     |
| /CRM/KBGMCR  | /CRM/KBGMCR01     |           | 620     |

Position... Entry 1 of 2,190

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- Step43. Provide the Message type, Basic Idoc, Extended Idoc and the Release . Save it and go back.



- Step44. Now go to Tcode WE20 to edit the partner profile to add the Extended IDoc in the Sender System.



- Step45. Select the Partner Profile 'CNT\_QAS200' under Partner Type LS and double click on Message type 'MATMAS' under Outbound Parameters section.

The screenshot shows the SAP Partner profiles interface. On the left, a tree view lists various partner types: Partner Profiles, Partner Type B, Partner Type BP, Partner Type GP, Partner Type KU, Partner Type LI, and Partner Type LS. Under Partner Type LS, several entries are listed, including CNT\_DEV\_200, CNT\_QAS200 (which is highlighted with a red box), CUS\_200, CUS\_300, DD\_200, D\_CLNT\_200, ECC001, ECC002, LS\_200, LS\_300, QQ\_200, Q\_CLNT\_200, RECEIV\_300, and SENDER\_200. The entry 'CNT\_QAS200' is selected and shown in detail on the right side of the screen.

**Partner profile details:**

- Partner No.: CNT\_QAS200 Log System for QAS client 200 in DE
- Partn.Type: LS Logical system
- Post processing: permitted agent, Classification, T
- Ty.: DS User
- Agent: DEVELOPER DEVELOPER
- Lang.: EN English

**Outbound parameters:**

| Partner Role | Message Type | Message va... | MessageFu... | Test                                |
|--------------|--------------|---------------|--------------|-------------------------------------|
|              | MATMAS       |               |              | <input checked="" type="checkbox"/> |
|              | SYNCH        |               |              | <input type="checkbox"/>            |

At the bottom, there are buttons for Save, Cancel, and Close, along with a status bar indicating 'DEV (1) 200'.

- Step46. Provide the above created Extended Idoc Type as highlighted and Save it.

**Partner profiles: Outbound parameters**

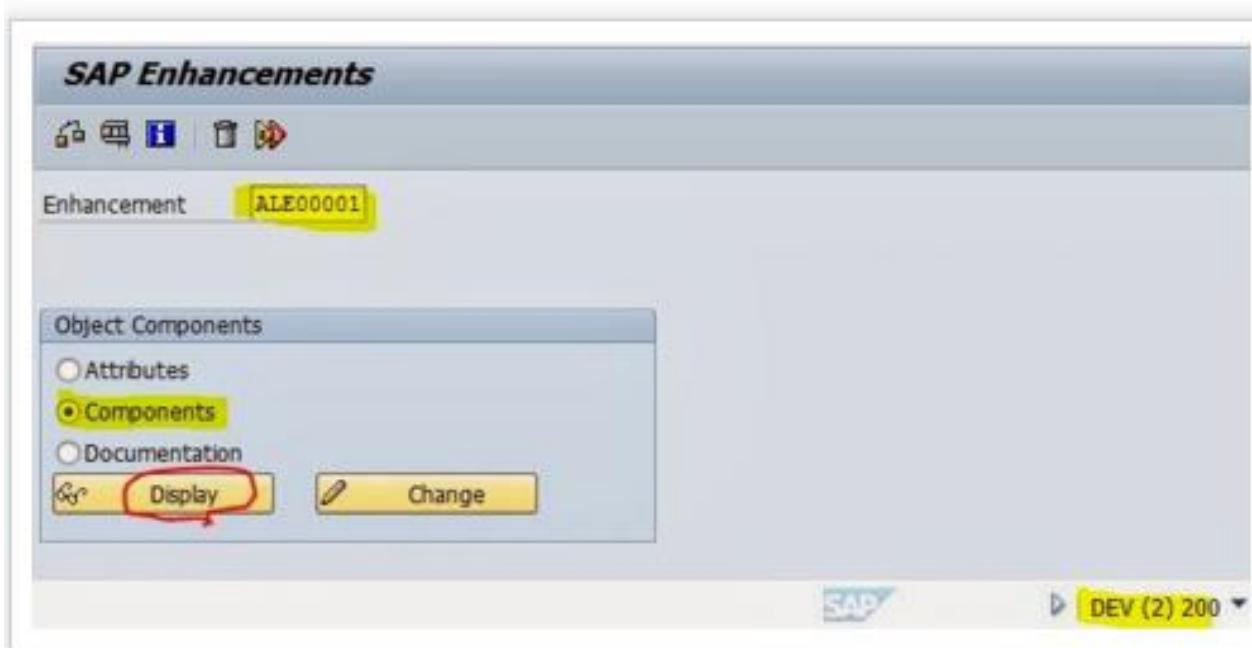
|                                                                                                                                                                                                      |                  |                    |                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------|-----------------------------------|
| <input type="checkbox"/>                                                                                                                                                                             | Message Type     | <b>MATMAS</b>      | Material master                   |
| <input type="checkbox"/>                                                                                                                                                                             | Message code     |                    |                                   |
| <input type="checkbox"/>                                                                                                                                                                             | Message function |                    | <input type="checkbox"/> Test     |
| <input type="button" value="Outbound Options"/> <input type="button" value="Message Control"/> <input type="button" value="Post Processing: Permitted Agent"/> <input type="button" value="Tel..."/> |                  |                    |                                   |
| Receiver port                                                                                                                                                                                        | A000000038       | Transactional RFC  | Port to connect 200 client of ... |
| Pack. Size                                                                                                                                                                                           | 1                |                    |                                   |
| <input type="checkbox"/> Queue Processing                                                                                                                                                            |                  |                    |                                   |
| <b>Output Mode</b><br><input checked="" type="radio"/> Transfer IDoc Immed.      Output Mode 2<br><input type="radio"/> Collect IDocs                                                                |                  |                    |                                   |
| <b>IDoc Type</b><br>Basic type: MATMAS05<br>Extension: <b>MATMAS05_EXT01</b> Enhancement: Distribution of ...<br>View: BASIC MATERIAL IDOC EXTE...                                                   |                  |                    |                                   |
| <input checked="" type="checkbox"/> Cancel Processing After Syntax Error<br>Seq. release in IDoc type                                                                                                |                  | Segment Appl. Rel. |                                   |
| <input checked="" type="checkbox"/> Data was saved                                                                                                                                                   |                  |                    |                                   |

**SAP**

- Step47. Now we have to find out a Exit so that we can add the material extra information. Go to Tcode- SMOD in the Sender System.



- Step48. The enhancement 'ALE00001' is available for the material IDoc extension. Click on the Display button.



- Step49. The function module is available.

**Components in SAP Enhancement ALE00001**

The screenshot shows the SAP Components in Enhancement interface for enhancement ALE00001. It displays two main sections: 'Function module exits' and 'Function codes'. In the 'Function module exits' section, there is one entry: 'Function module' EXIT\_SAPLB011\_001 and 'Short Text' User Exit for IDoc Version Change. Below this section are two small icons. In the 'Function codes' section, there is one entry: 'Program' and 'Code' Short text, each with a corresponding input field. At the bottom right of the screen, there is a SAP logo and a status bar showing 'DEV (2) 200'.

| Function module   | Short Text                        |
|-------------------|-----------------------------------|
| EXIT_SAPLB011_001 | User Exit for IDoc Version Change |

| Program | Code | Short text |
|---------|------|------------|
|         |      |            |

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- Step50. Now go to Tcode- CMOD to create a project in the sender system.



- Step51. Provide a project name and click on Create button.



- Step52. Provide the description and click on Enhc. Assignment button.

**Attributes of Enhancement Project ZALE\_ENH**

**Enhancement assignments** Components

|            |                                              |
|------------|----------------------------------------------|
| Project    | ZALE_EN...                                   |
| Short text | ALE IDOC IMPLEMENTATION FOR MATMAS EXTENSION |

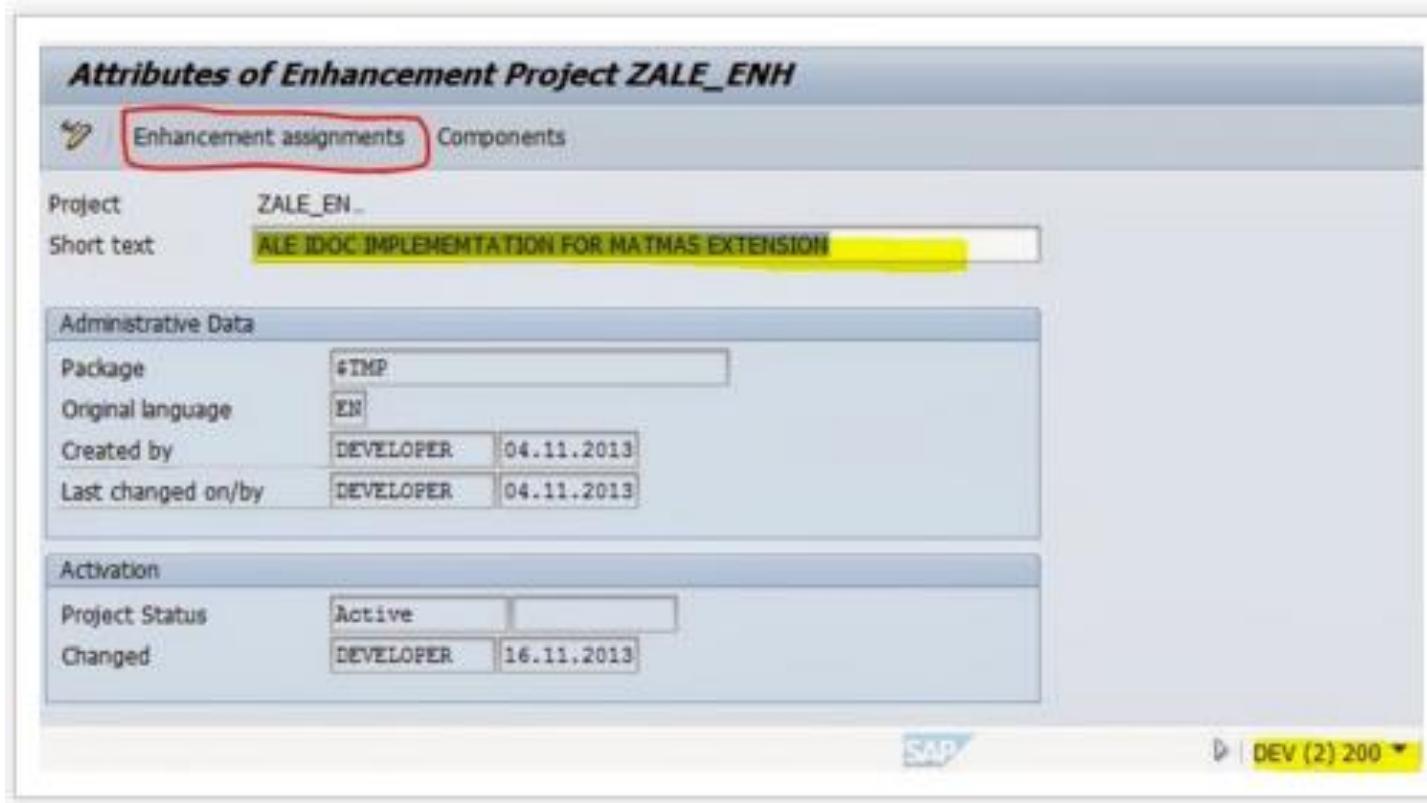
**Administrative Data**

|                    |           |            |
|--------------------|-----------|------------|
| Package            | #TMP      |            |
| Original language  | EN        |            |
| Created by         | DEVELOPER | 04.11.2013 |
| Last changed on/by | DEVELOPER | 04.11.2013 |

**Activation**

|                |           |            |
|----------------|-----------|------------|
| Project Status | Active    |            |
| Changed        | DEVELOPER | 16.11.2013 |

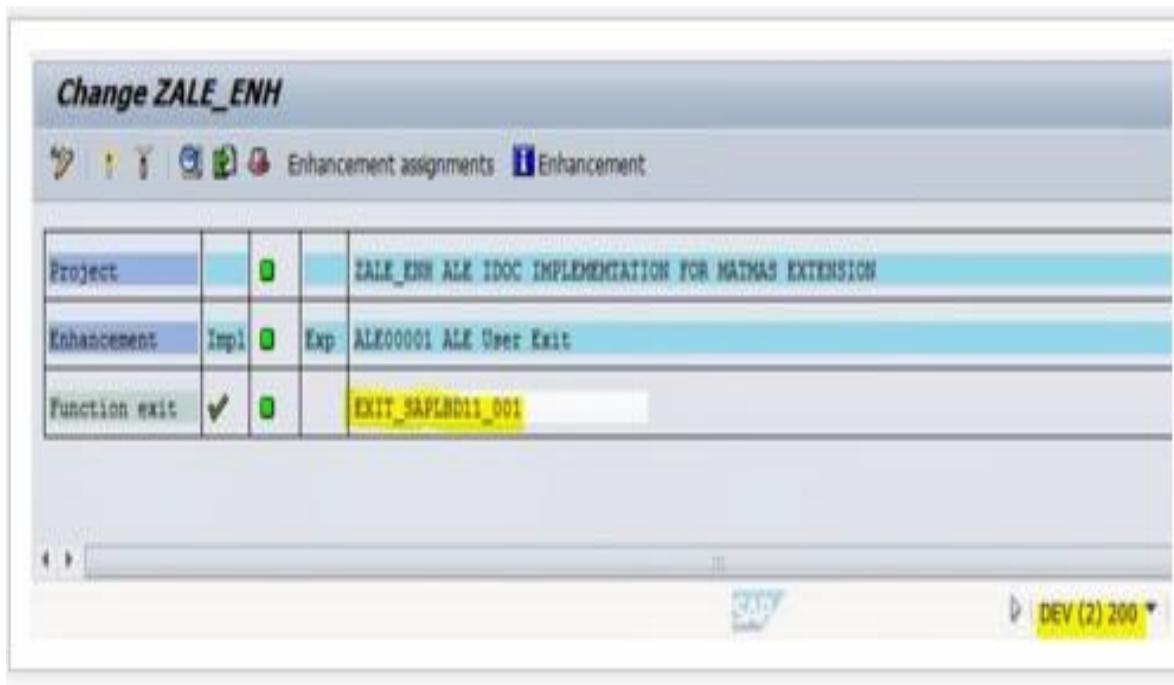
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- Step53. Provide the enhancement name and click on Components.



- Step54. Now double click on the Function Module name.



- Step55. Double click on the Include to implement it.

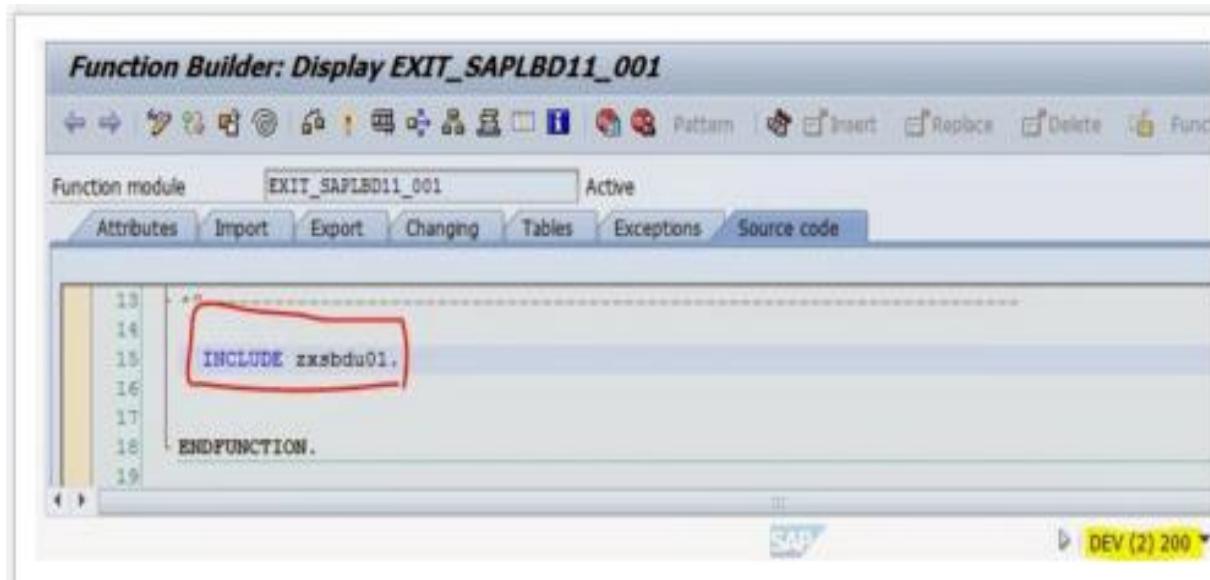
Function Builder: Display EXIT\_SAPLBD11\_001

Function module EXIT\_SAPLBD11\_001 Active

Attributes Import Export Changing Tables Exceptions Source code

```
13
14
15 INCLUDE zxsbd01.
16
17
18 ENDFUNCTION.
19
```

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The screenshot shows the SAP Function Builder interface with the title "Function Builder: Display EXIT\_SAPLBD11\_001". The function module name "EXIT\_SAPLBD11\_001" is displayed in the top bar, along with the status "Active". Below the title, there is a toolbar with various icons. The main area contains tabs for "Attributes", "Import", "Export", "Changing", "Tables", "Exceptions", and "Source code", with "Source code" being the active tab. The source code editor displays the following code:

```
13
14
15 INCLUDE zxsbd01.
16
17
18 ENDFUNCTION.
19
```

The line "INCLUDE zxsbd01." is highlighted with a red rectangular box. In the bottom right corner of the interface, there is a status bar showing "SAP" and "DEV (2) 200".

- Step56. Provide the below code so that the IDoc will carry the Extra information.

**ABAP Editor: Change Include ZXSDU01**

Include ZXSDU01 Active

```

1 DATA : ls_elmaram TYPE elmaram,
2 ls_zmara_ext TYPE zmara_ext,
3 idx TYPE i.
4
5 CASE idoc_control_in-direct.
6 WHEN '1'.
7 IF idoc_control_in-mestyp = 'MATMAS'.
8 LOOP AT idoc_data.
9 CASE idoc_data-segnam.
10 WHEN 'E1MARAM'.
11 ls_elmaram = idoc_data-sdata.
12 idx = sy-tabix.
13 SELECT SINGLE zrzrating zzhazardous FROM mara INTO
14 (ls_zmara_ext-zrzrating, ls_zmara_ext-zzhazardous)
15 WHERE matnr = ls_elmaram-matnr.
16
17 ENDCASE.
18 ENDLOOP.
19 idx = idx + 1.
20
21 idoc_data-segnam = 'ZMARA_EXT'.
22 idoc_data-sdata = ls_zmara_ext.
23 INSERT idoc_data INDEX idx.
24 ENDIF.
25 ENDCASE.

```

ABAP | Ln

Active object generated

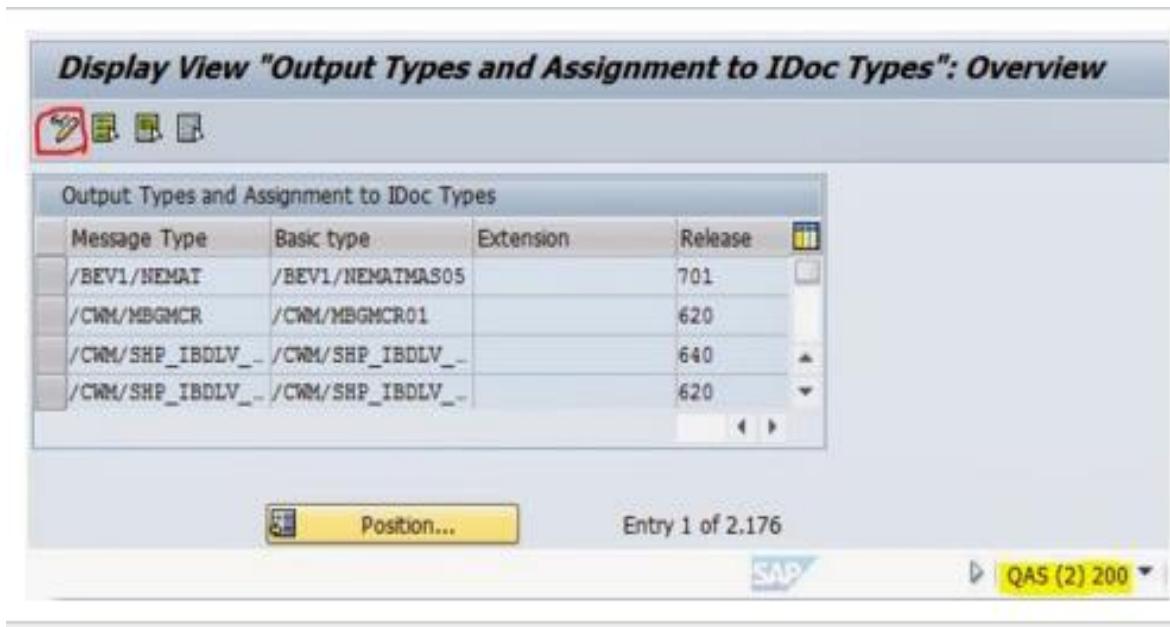
SAP

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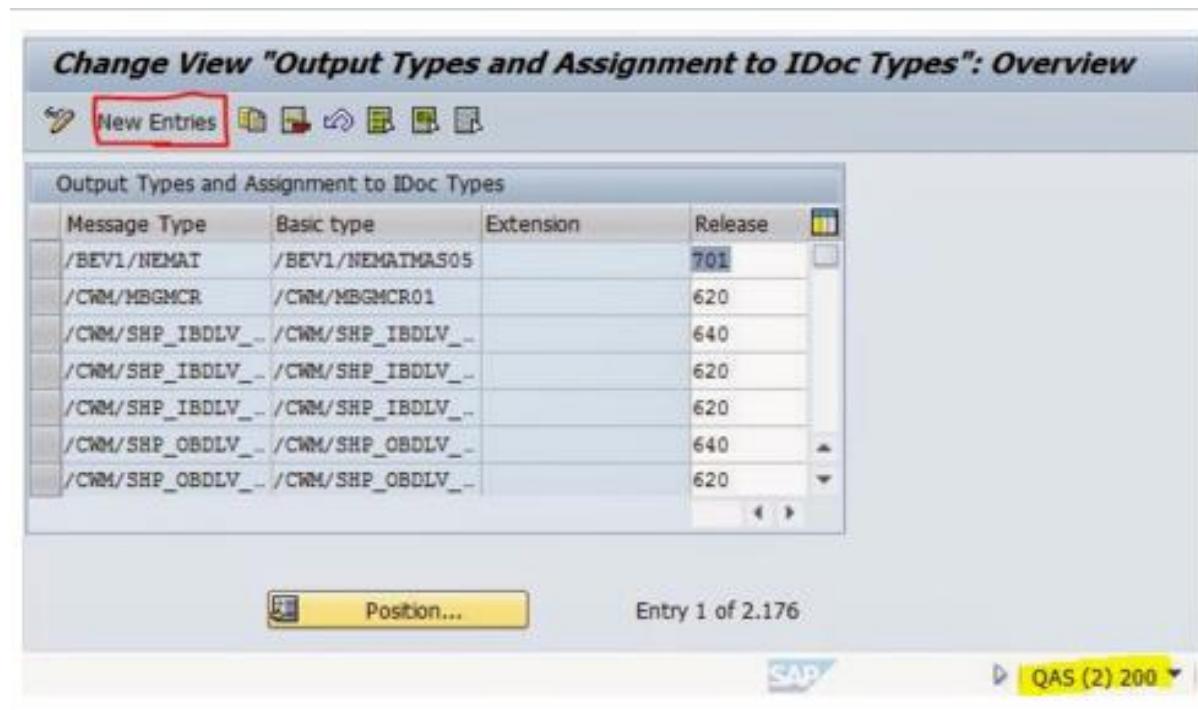
- Step57. In the receiver system, To assign the Basic Idoc, Extended Idoc to the message type, Go to Tcode- WE82.



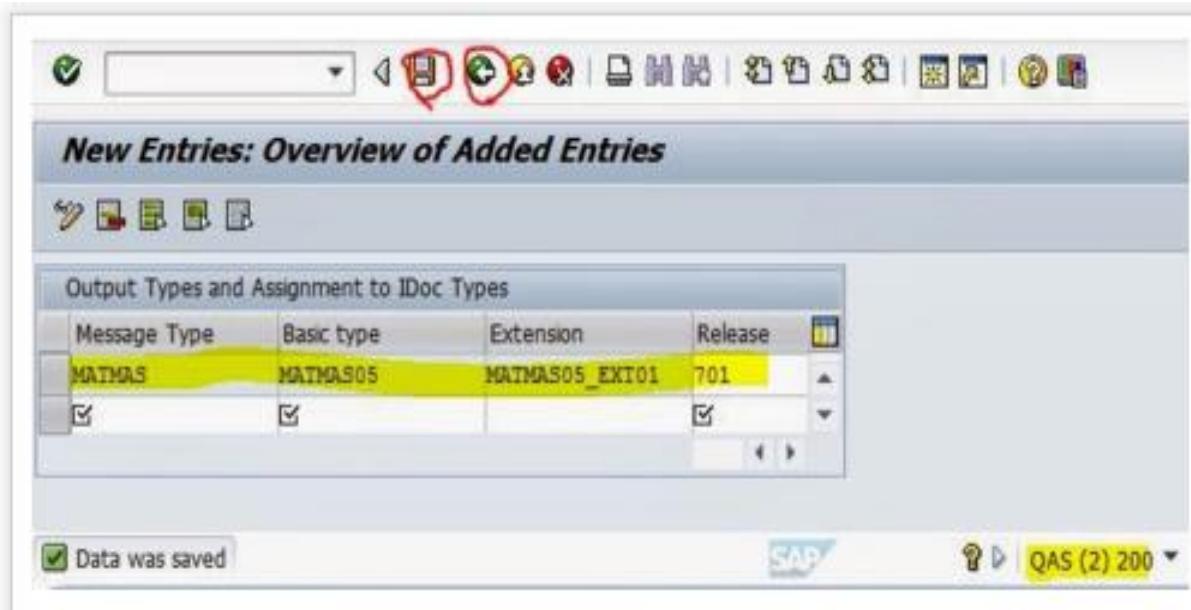
- Step58. Click on the Edit button.



- Step59. Click on the New Entries Button.



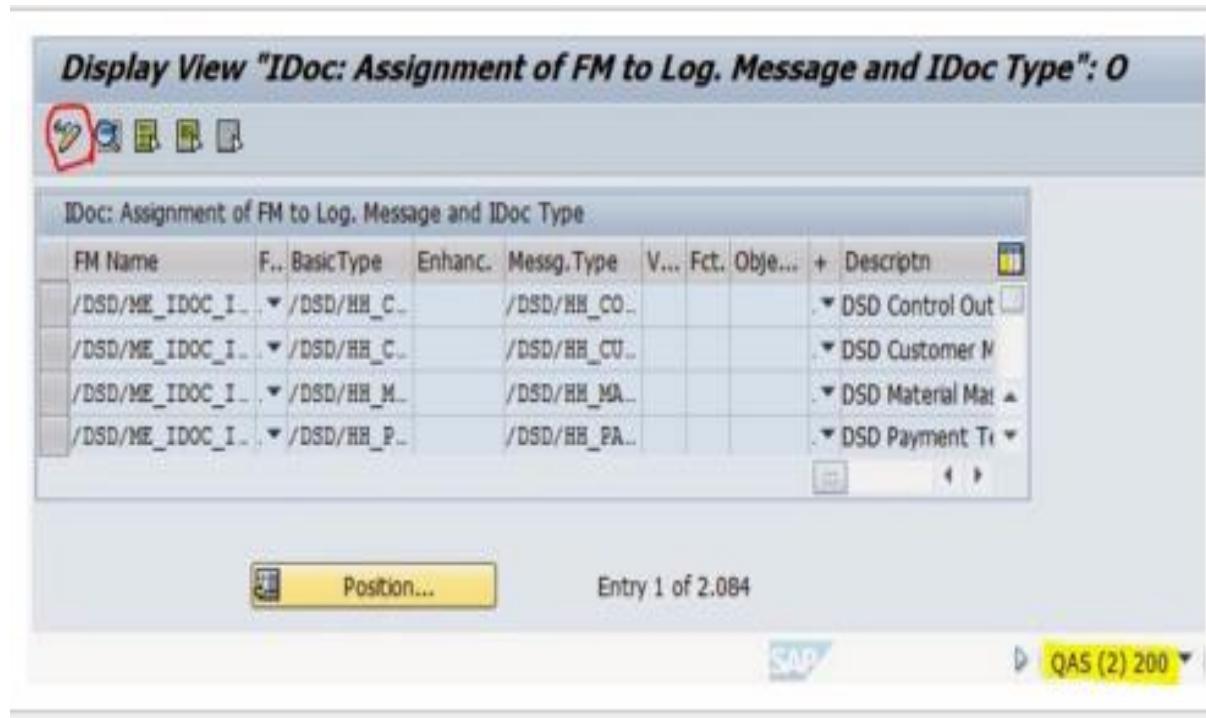
- Step60. Provide the message type name, Basic Idoc, Extended Idoc and release. Save it and go Back.



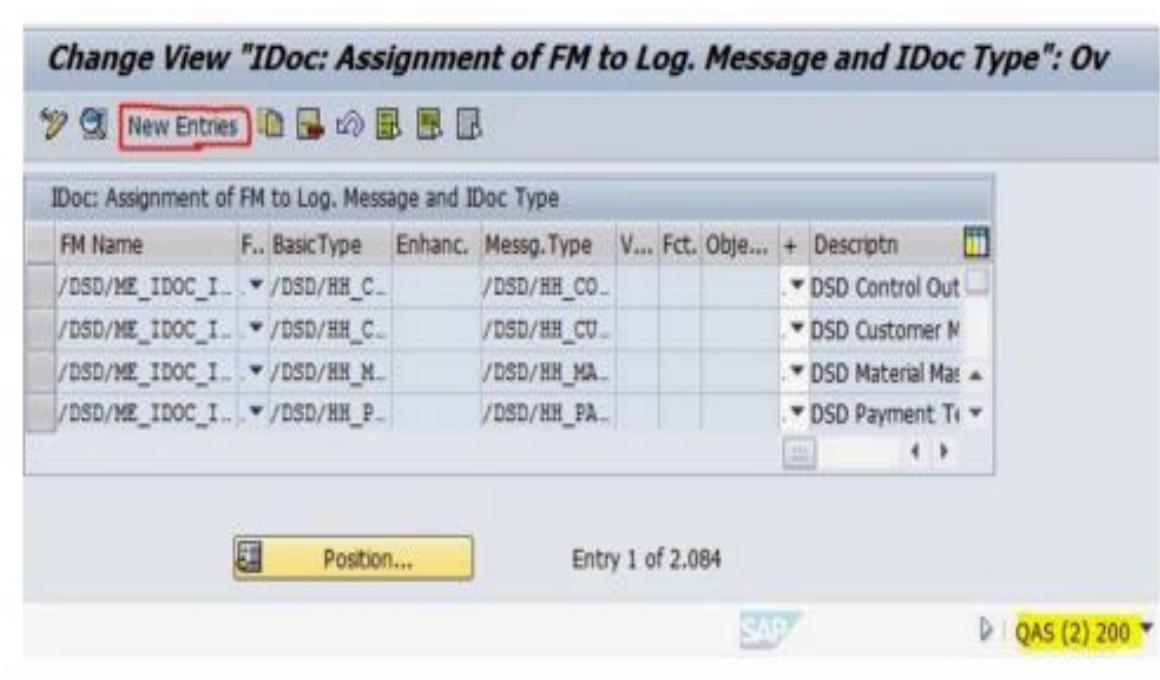
- Step61. Go to WE57 in the receiver system to assign the IDoc to the Inbound Function module.



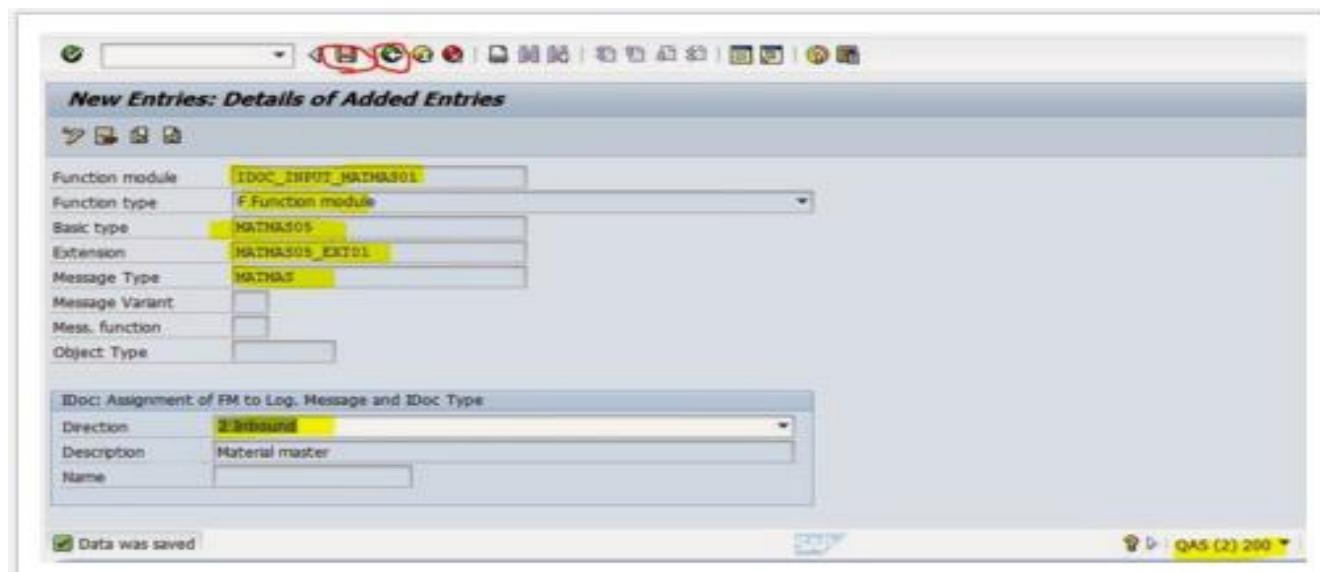
- Step62. Click on the Edit button



- Step63. Click on the New Entries Buton



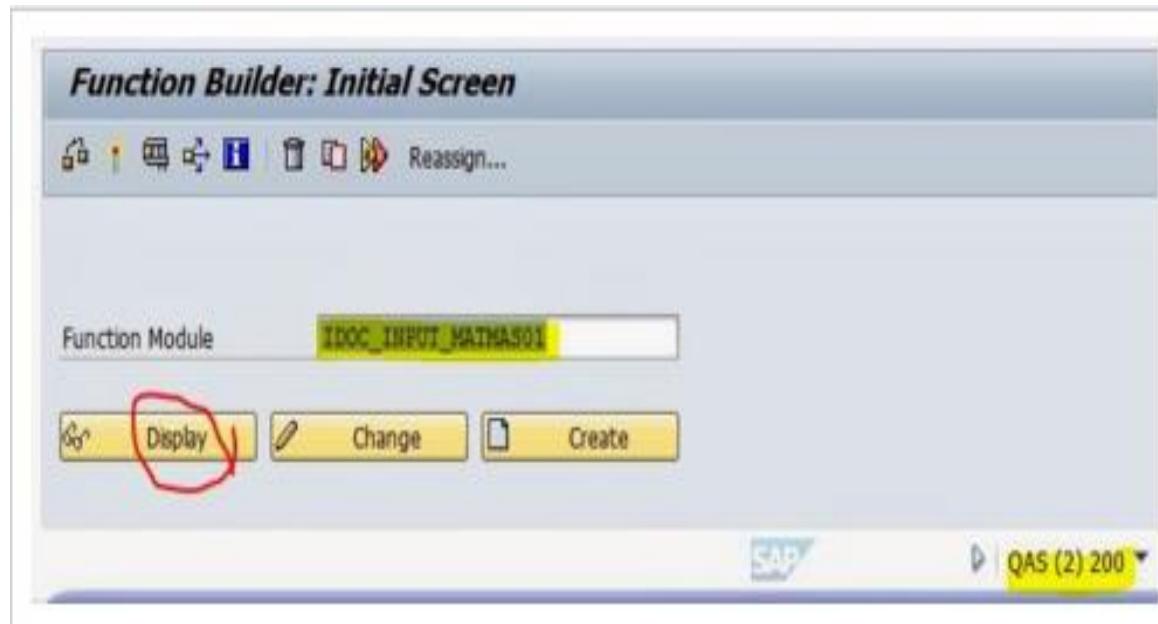
- Step64. Provide the function module name 'IDOC\_INPUT\_MATMAS01', basic Idoc type, Extended Idoc type, Message type and direction as 2 (Inbound) and save it. We need to add some extra code to add the extra information to the MARA table.



- Step65. Go to Tcode- SE37 in the receiver system.



- Step66. Provide te inbound function module name 'IDOC\_INPUT\_MATMAS01' and click on Display button



- Step67. one user exit is available as highlighted below.

Function module **IDOC\_INPUT\_MATMAS01** Active

Attributes Import Export Changing Tables Exceptions **Source code**

```
40
41 * //br zu 3.0f :
42 * - ab sofort sind mehrere Kundensegmente pro Segment möglich
43 * - der Exit EXIT_SAPINV02_002 hat eine Exception bekommen
44 * //br zu 3.1g :
45 * - bisher konten Kundeneigene Felder nicht zurückgesetzt werden
46 * -> neuer Parameter Tabelle RES_FIELDS am Exit EXIT_SAPINV02_002
47 * -> vor Aufruf des Exits wird SY-SUBRC = 0 gesetzt
```

Step68. The same is also called in the FM:  
IDOC\_INPUT\_MATMAS01.

Function Builder: Display IDOC\_INPUT\_MATMAS01

Function module IDOC\_INPUT\_MATMAS01 ACTIVE

Attributes Import Export Changing Tables Exceptions Source code

```
730 PERFORM CHECK_USER_EXIT TABLES T_EDIDO * zu 3.18
731 USER_SEGMENTS
732 USING CURRENT_TABIX.
733 LOOP AT USER_SEGMENTS.
734 REFRESH T_RES_FIELDS.
735 SY-SUBRC = 0.
736 CALL CUSTOMER-FUNCTION '0024'
737 EXPORTING
738 MESSAGE_TYPE = IDOC_CTRL-NESTTYP
739 F_CUST_SEGMENT = USER_SEGMENTS
740 TABLES
741 RES_FIELDS = T_RES_FIELDS
742 CHANGING
743 F_MARA_UEB = I_MARA_UEB
744 EXCEPTIONS
745 APPLICATION_ERROR = 1
746 OTHERS = 2.
```

- Step69. From the Attributes tab get the package name.

Function Builder: Display IDOC\_INPUT\_MATMAS01

Function module IDOC\_INPUT\_MATMAS01 Active

Attributes Import Export Changing Tables Exceptions Source code

Classification

|                |                              |                            |
|----------------|------------------------------|----------------------------|
| Function Group | MV02                         | IDoc input material master |
| Short Text     | Einbuchen Materialstamm IDOC |                            |

Processing Type

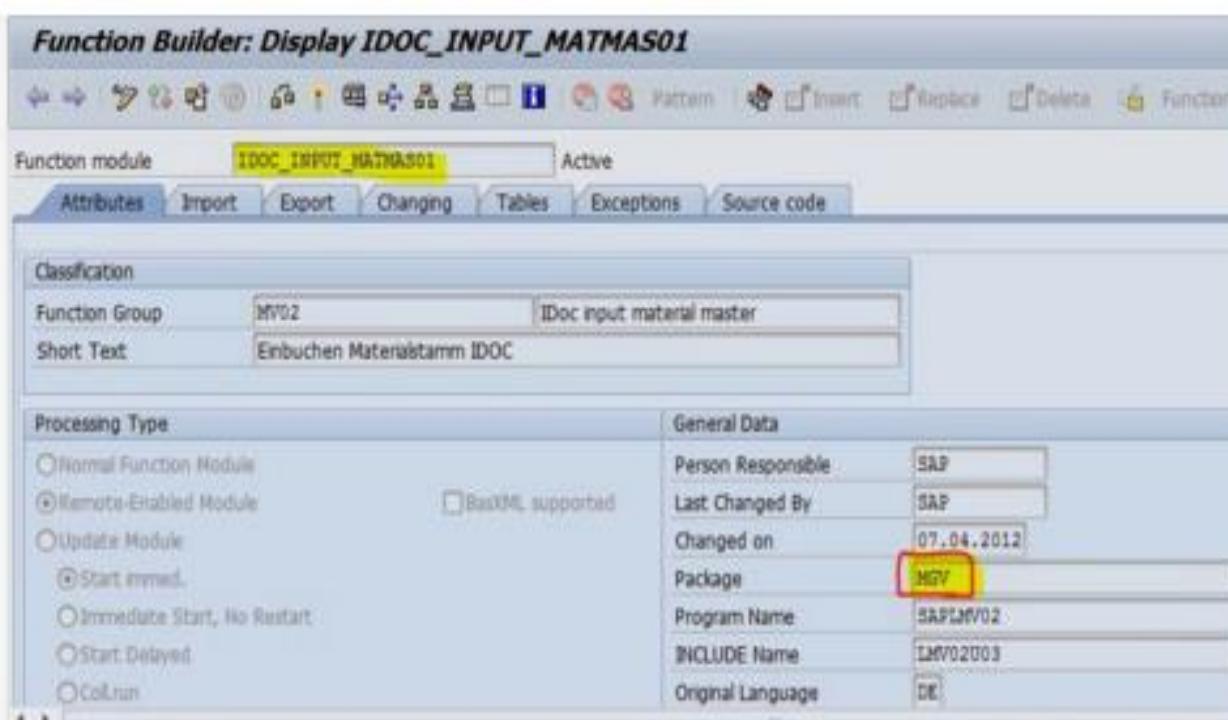
Normal Function Module  
 Remote-Enabled Module  
 Update Module  
 Start immed.  
 Immediate Start, No Restart  
 Start Delayed  
 Collrun

BaxML supported

General Data

|                    |            |
|--------------------|------------|
| Person Responsible | SAP        |
| Last Changed By    | SAP        |
| Changed on         | 07.04.2012 |
| Package            | HRDV       |
| Program Name       | SAPLIMV02  |
| INCLUDE Name       | LMV02003   |
| Original Language  | DE         |

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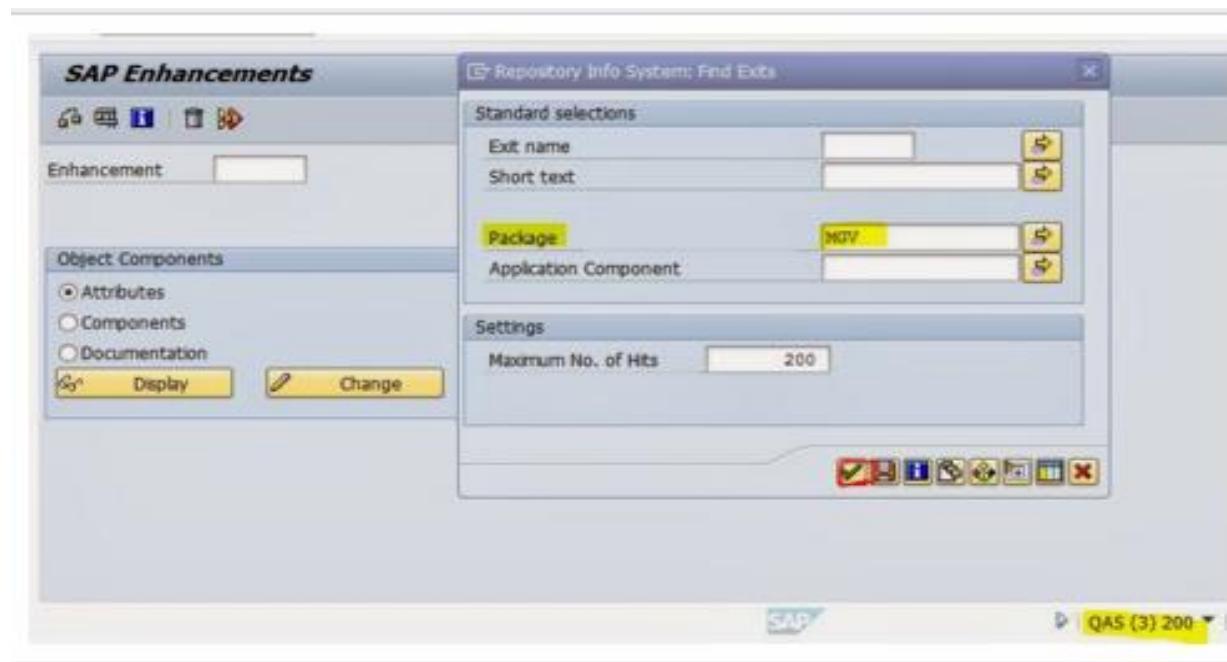
- Step70. Go to SMOD transaction in the receiver system .



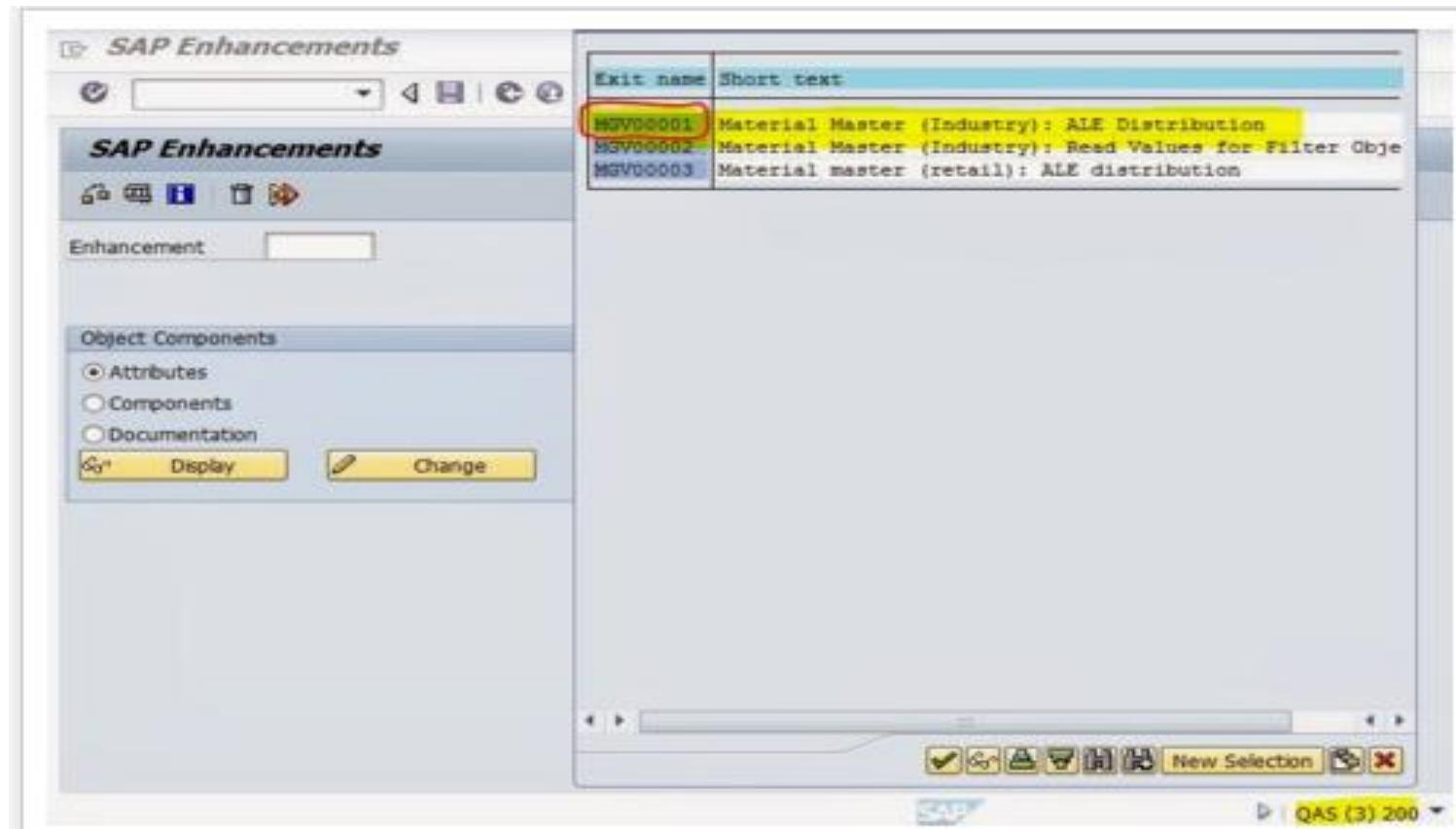
- Step71. Click on F4 button.



- Step72. Provide the package Name and click on continue button



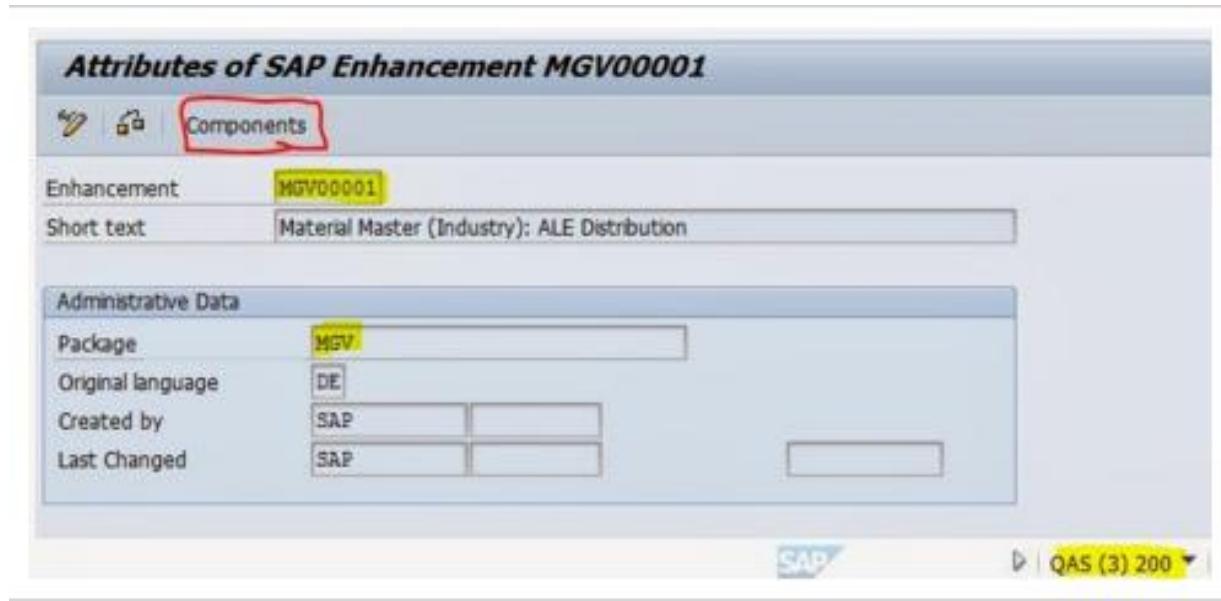
- Step73. The enhancement 'MGV00001' is available.  
Select the first one.



- Step74. Click on the Display Button.



- Step75. Now Click on the Components .



- Step76. The FM 'EXIT\_SAPLMV02\_002' is available to Post the IDoc with additional information.

**Components in SAP Enhancement MGV00001**

The screenshot shows the SAP Components in Enhancement screen for enhancement MGV00001. It displays two sections: 'Function module exits' and 'Function codes'. In the 'Function module exits' section, there are two entries. The first entry is 'EXIT\_SAPLMV01\_002' with a short text 'Enhancements in Material Master: IDoc - Create'. The second entry is 'EXIT\_SAPLMV02\_002' with a short text 'Enhancements in Material Master: IDoc - Post'. The 'EXIT\_SAPLMV02\_002' entry is highlighted with a yellow background and has a red box drawn around its short text field. Both entries have edit, delete, and copy icons to their right. In the 'Function codes' section, there are three empty rows for programs, each with code and short text fields and corresponding edit, delete, and copy icons. The SAP logo is at the bottom left, and the status bar at the bottom right shows 'QAS (3) 200 ▾'.

| Function module exits |                                                |  |
|-----------------------|------------------------------------------------|--|
| Function module       | Short Text                                     |  |
| EXIT_SAPLMV01_002     | Enhancements in Material Master: IDoc - Create |  |
| EXIT_SAPLMV02_002     | Enhancements in Material Master: IDoc - Post   |  |
|                       |                                                |  |
|                       |                                                |  |

| Function codes |      |            |
|----------------|------|------------|
| Program        | Code | Short text |
|                |      |            |
|                |      |            |
|                |      |            |

- Step77. Go to Tcode- CMOD in the receiver system.



- Step78. Provide a project Name and click on Create Button.



Step79. Provide the description and click on Enhc. Assignment button.

**Attributes of Enhancement Project ZALE\_ENH**

Enhancement assignments Components

Project ZALE\_ENH  
Short text **matreal post for standard enhancement**

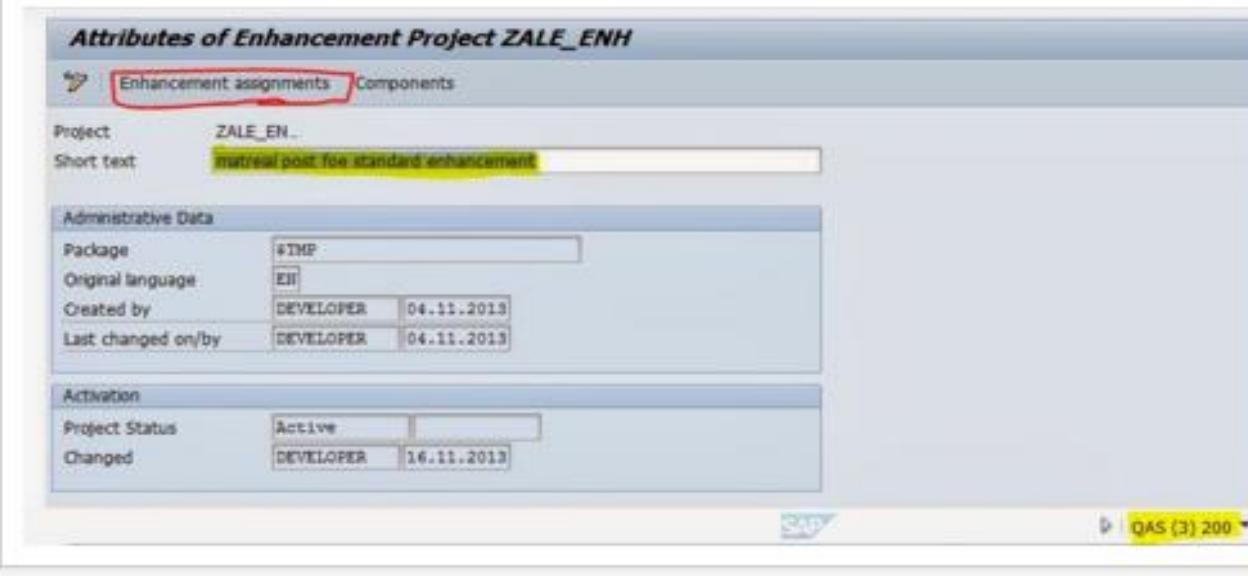
**Administrative Data**

|                    |                        |
|--------------------|------------------------|
| Package            | STMP                   |
| Original language  | EN                     |
| Created by         | DEVELOPER   04.11.2013 |
| Last changed on/by | DEVELOPER   04.11.2013 |

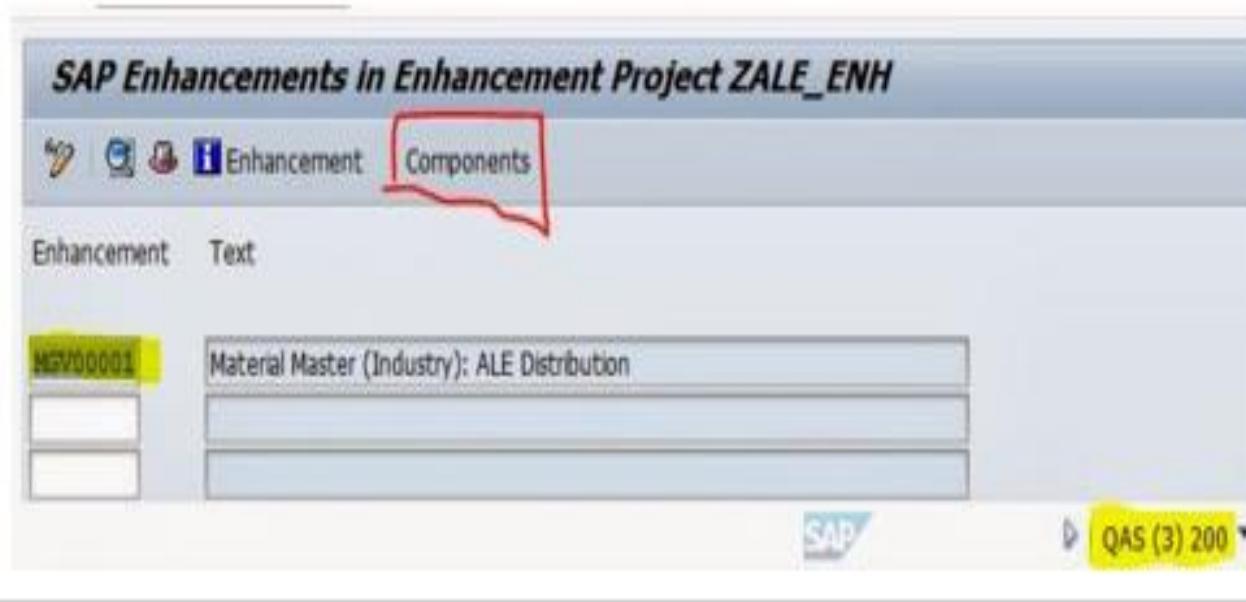
**Activation**

|                |                        |
|----------------|------------------------|
| Project Status | Active                 |
| Changed        | DEVELOPER   16.11.2013 |

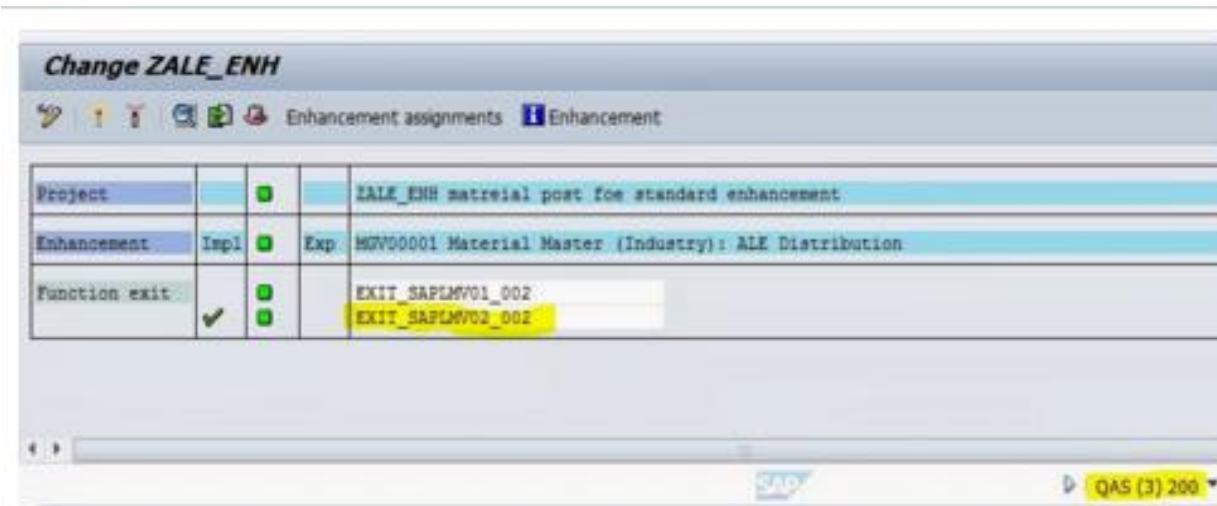
SAP QAS (3) 200



- Step80. Provide the Enhancement Name and click on Components button



- Step81. Now double click on Function exit 'EXIT\_SAPLMV02\_002' to implement it.



- Step82. Double click on the Include to implement it.

Function Builder: Display EXIT\_SAPLMV02\_002

```
Function module EXIT_SAPLMV02_002 Active
Attributes Import Export Changing Tables Exceptions Source code
46
47 INCLUDE ZXNGYU04.
48
49
50 ENDFUNCTION.
51
```

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- Step83. Provide teh below code and activate the project.

The screenshot shows the SAP ABAP IDE interface. The title bar includes standard icons for file operations and a toolbar with various tools. The main area is a code editor with the following content:

```
1 *->-
2 | *& Include ZXMGVU04
3 | *&-->-
4
5 TABLES : mara.
6 DATA : ls_zmara_ext TYPE zmara_ext.
7 IF message_type = 'MATMAS'.
8 ls_zmara_ext = f_cust_segment-sdata.
9 f_mara_ueb-zzrating = ls_zmara_ext-zzrating.
10 f_mara_ueb-zzhazardous = ls_zmara_ext-zzhazardous.
11 MODIFY mara FROM f_mara_ueb.
12 IF sy-subrc = 0.
13 COMMIT WORK.
14 ENDIF.
15 ENDIF.
```

Several lines of code are highlighted in yellow, specifically lines 7 through 15. The SAP logo is visible in the bottom right corner of the IDE window.

- Step84. Now Go to TCode- MM01 in the sender system to create a material.



- Step85. Select the line and click on continue Button.



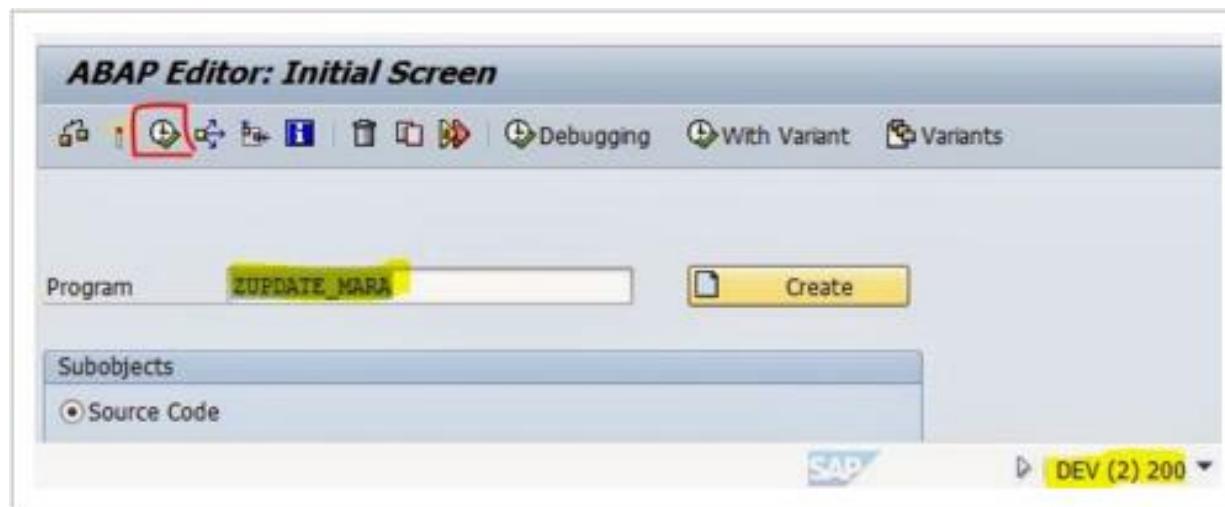
- Step86. The material '4150' is created successfully in the sender system.



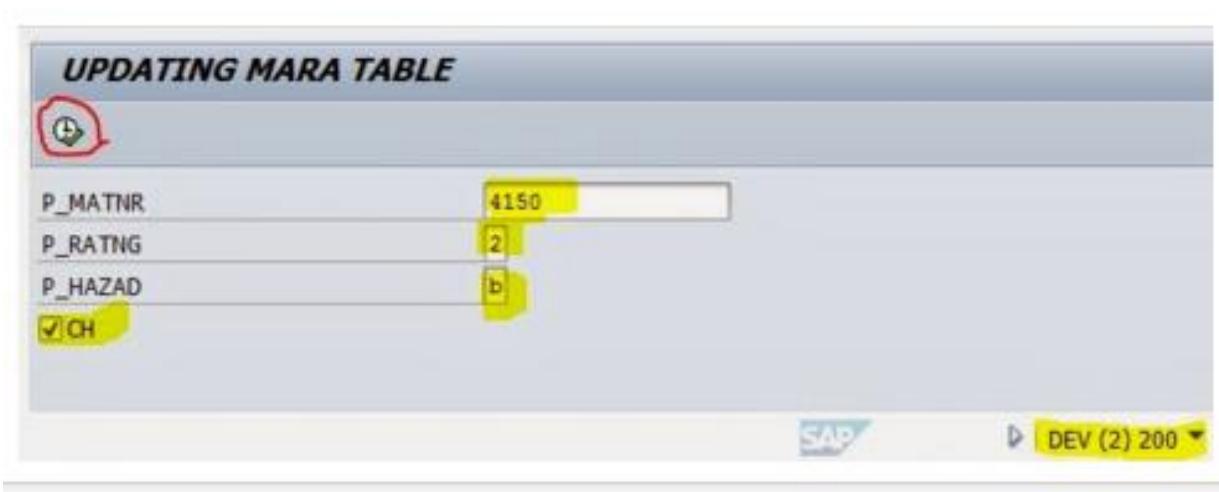
- Step87. To add the extra material information, go to Tcode-SE38 in the sender system to run the previous created report.



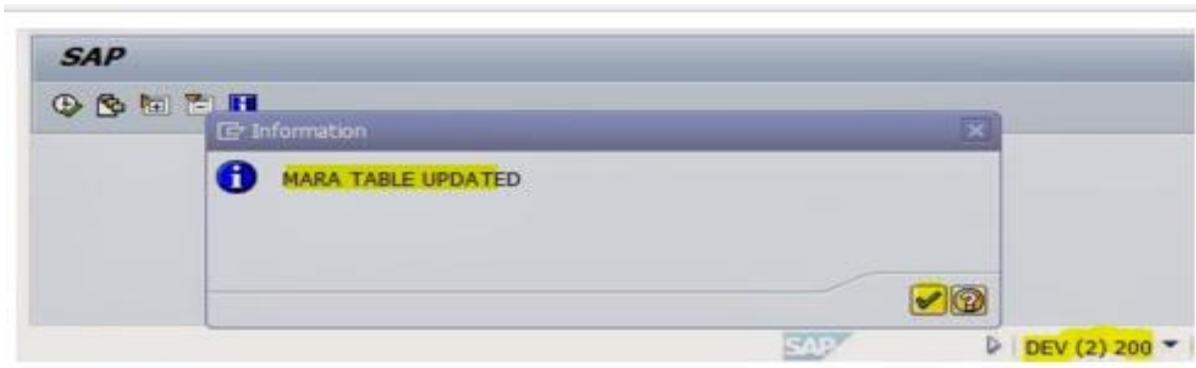
- Step88. Provide the report Name and Execute it.



- Step89. Provide the previously created Material Name and provide the Additional Information and execute it.



- Step90. The material '4150' is updated with additional information in the Sender System.



- Step91. Go to Tcode- MM03 in the receiver system to check in the material is available or not.



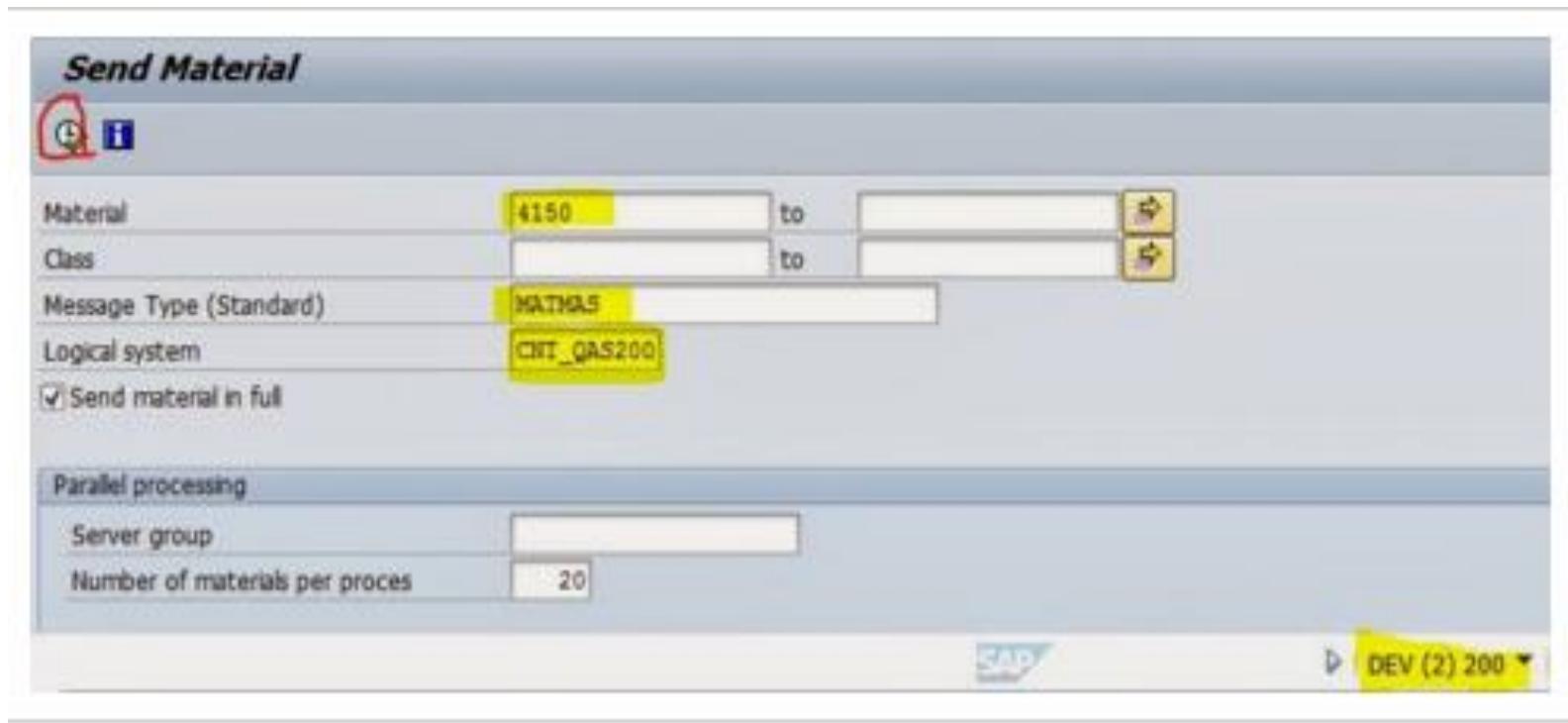
- Step92. Provide the material number- 4150 and hit enter button. The material is not available in the Receiver System.



- Step93. Now go to Tcode- BD10 in the sender system to generate the Idoc.



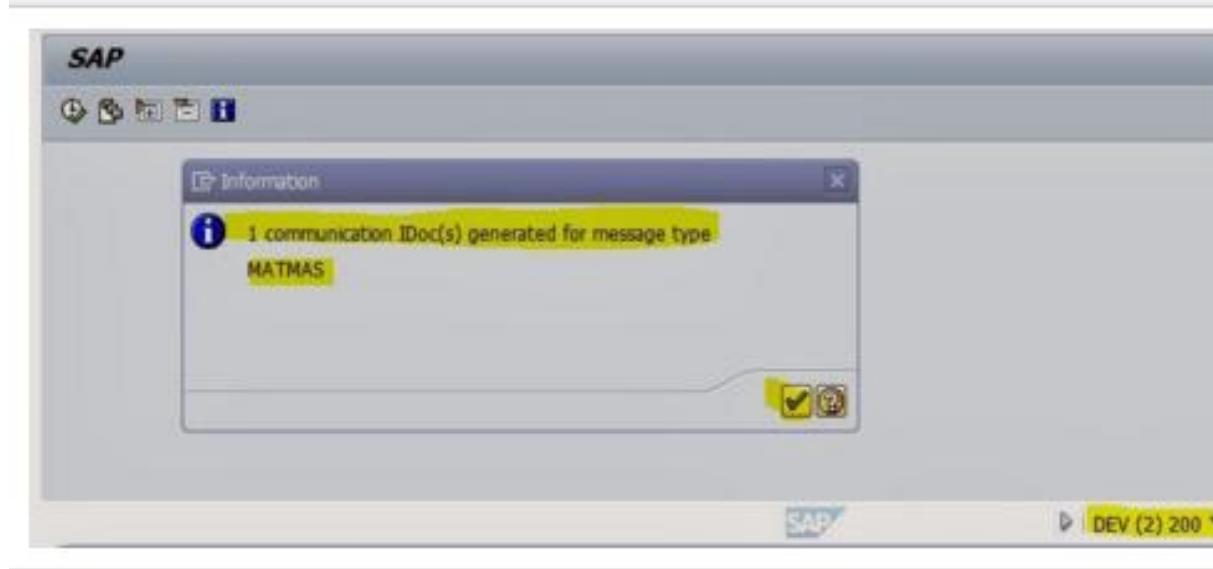
- Step94. Provide the material number, message type and the Logical system and Execute it.



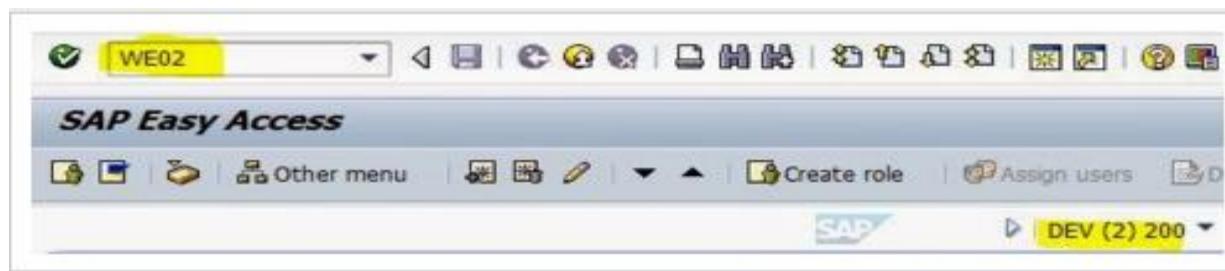
- Step95. One master Idoc is generated.



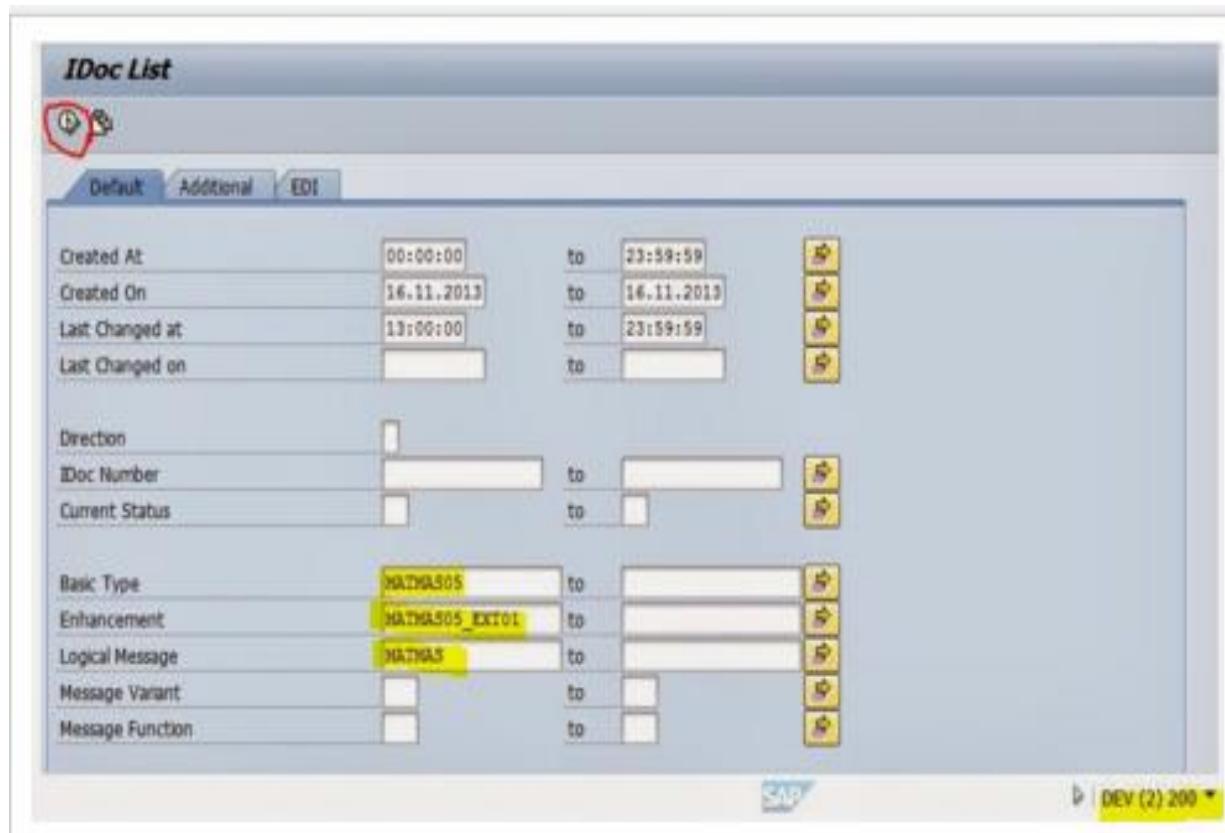
- Step96. One Communication Idoc is generated.



- Step97. Now Go to Tcode- WE02 in the sender system to get to know about the Generated IDoc.



- Step98. Provide the details and Execute it.



- Step99. The IDoc contains the material '4150' in the sender system.

**IDoc Display: 0000000000204023**

| IDoc display                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                  | Technical short info                                                                                                                                                                                                                                                                           |                |                |                |                |       |                  |       |          |       |           |       |          |       |   |         |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|----------------|-------|------------------|-------|----------|-------|-----------|-------|----------|-------|---|---------|-----|
| <ul style="list-style-type: none"> <li>IDoc 0000000000204023           <ul style="list-style-type: none"> <li>Control Rec.</li> <li>Data records               <ul style="list-style-type: none"> <li>EIMARAM                   <ul style="list-style-type: none"> <li>ZIMARA_EXT</li> <li>EIMARA1</li> <li>EIMAKTH</li> </ul> </li> </ul> </li> <li>Status records               <ul style="list-style-type: none"> <li>03</li> <li>30</li> <li>01</li> </ul> </li> </ul> </li> </ul> |                  | <p>Total number: 000004</p> <table border="1"> <tr> <td>Segment 000001</td> </tr> <tr> <td>Segment 000002</td> </tr> <tr> <td>Segment 000003</td> </tr> <tr> <td>Segment 000004</td> </tr> </table> <p>Data passed to port OK<br/>IDoc ready for dispatch (ALE service)<br/>IDoc generated</p> | Segment 000001 | Segment 000002 | Segment 000003 | Segment 000004 |       |                  |       |          |       |           |       |          |       |   |         |     |
| Segment 000001                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                                                                                                                                                                                                                                                                                                |                |                |                |                |       |                  |       |          |       |           |       |          |       |   |         |     |
| Segment 000002                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                                                                                                                                                                                                                                                                                                |                |                |                |                |       |                  |       |          |       |           |       |          |       |   |         |     |
| Segment 000003                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                                                                                                                                                                                                                                                                                                |                |                |                |                |       |                  |       |          |       |           |       |          |       |   |         |     |
| Segment 000004                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                                                                                                                                                                                                                                                                                                |                |                |                |                |       |                  |       |          |       |           |       |          |       |   |         |     |
| <p>Content of selected segment</p> <table border="1"> <thead> <tr> <th>Flt name</th> <th>Flt cont.</th> </tr> </thead> <tbody> <tr> <td>MSEGID</td> <td>005</td> </tr> <tr> <td>MATNR</td> <td>0000000000004150</td> </tr> <tr> <td>ERSDA</td> <td>20131116</td> </tr> <tr> <td>ERGAM</td> <td>DEVELOPER</td> </tr> <tr> <td>LADDA</td> <td>00000000</td> </tr> <tr> <td>PSTAT</td> <td>K</td> </tr> <tr> <td>WTSTART</td> <td>FRI</td> </tr> </tbody> </table> <p>SAP DEY (2) 200</p> |                  |                                                                                                                                                                                                                                                                                                | Flt name       | Flt cont.      | MSEGID         | 005            | MATNR | 0000000000004150 | ERSDA | 20131116 | ERGAM | DEVELOPER | LADDA | 00000000 | PSTAT | K | WTSTART | FRI |
| Flt name                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Flt cont.        |                                                                                                                                                                                                                                                                                                |                |                |                |                |       |                  |       |          |       |           |       |          |       |   |         |     |
| MSEGID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 005              |                                                                                                                                                                                                                                                                                                |                |                |                |                |       |                  |       |          |       |           |       |          |       |   |         |     |
| MATNR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0000000000004150 |                                                                                                                                                                                                                                                                                                |                |                |                |                |       |                  |       |          |       |           |       |          |       |   |         |     |
| ERSDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 20131116         |                                                                                                                                                                                                                                                                                                |                |                |                |                |       |                  |       |          |       |           |       |          |       |   |         |     |
| ERGAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DEVELOPER        |                                                                                                                                                                                                                                                                                                |                |                |                |                |       |                  |       |          |       |           |       |          |       |   |         |     |
| LADDA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 00000000         |                                                                                                                                                                                                                                                                                                |                |                |                |                |       |                  |       |          |       |           |       |          |       |   |         |     |
| PSTAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | K                |                                                                                                                                                                                                                                                                                                |                |                |                |                |       |                  |       |          |       |           |       |          |       |   |         |     |
| WTSTART                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FRI              |                                                                                                                                                                                                                                                                                                |                |                |                |                |       |                  |       |          |       |           |       |          |       |   |         |     |

- Step100. The Segment 'ZMARA\_EXT' contains the extra additional Information as highlighted below.

**IDoc Display: 0000000000204023**

| IDoc display            |                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------|
| - IDoc 0000000000204023 | Total number: 000004                                                              |
| - Control Rec.          | Segment 000001                                                                    |
| - Data records          | Segment 000002                                                                    |
| - EIMARAM               | Segment 000003                                                                    |
| - ZMARA_EXT             | Segment 000004                                                                    |
| - EIMARAI               |                                                                                   |
| - EIMAKTM               |                                                                                   |
| - Status records        | Data passed to port OK<br>IDoc ready for dispatch (ALE service)<br>IDoc generated |

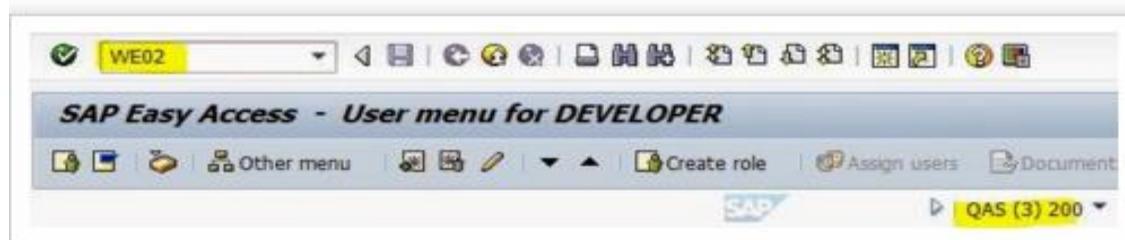
| Technical short info |                |
|----------------------|----------------|
| Direction            | 1 Outbox       |
| Current status       | 03 OC          |
| Basic type           | MATHAS05       |
| Extension            | MATHAS05_EXT01 |
| Message type         | MATHAS         |
| Partner No.          | CIRI_QAS200    |
| Partn. Type          | LS             |
| Port                 | A00000003B     |

Content of selected segment

| Fld name   | Fld cont. |
|------------|-----------|
| ZMARAEXT   | 2         |
| ZHAZARDOUS | 2         |

SAP DEV (2) 200

- Step101. Now go to Tcode- WE02 in the receiver system to track the Inbound Idoc.



- Step102. Provide the details and click on execute button.

**IDoc List**



Default Additional EDI

|                 |                                                                                                  |    |                          |                                                                                                                                                                                                                                                                                                                                                           |
|-----------------|--------------------------------------------------------------------------------------------------|----|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Created At      | 00:00:00                                                                                         | to | 23:59:59                 | <br><br><br>  |
| Created On      | 16.11.2013                                                                                       | to | 16.11.2013               | <br><br>                                                                                         |
| Last Changed at | 13:00:00                                                                                         | to | 23:59:59                 | <br>                                                                                                                                                                                |
| Last Changed on |                                                                                                  | to |                          |                                                                                                                                                                                                                                                                        |
| Direction       | <input type="checkbox"/>                                                                         |    |                          |                                                                                                                                                                                                                                                                                                                                                           |
| IDoc Number     | <input type="text"/>                                                                             | to | <input type="text"/>     | <br>                                                                                                                                                                                |
| Current Status  | <input type="checkbox"/>                                                                         | to | <input type="checkbox"/> |                                                                                                                                                                                                                                                                        |
| Basic Type      | <input type="text"/> MATHAS05                                                                    | to | <input type="text"/>     | <br><br><br>  |
| Enhancement     | <input type="text"/> MATHAS05_EXT01                                                              | to | <input type="text"/>     | <br>                                                                                                                                                                                |
| Logical Message | <input type="text"/> MATHAS                                                                      | to | <input type="text"/>     | <br><br><br> |
| Message Details |  QAS (3) 200 ▾ |    |                          |                                                                                                                                                                                                                                                                                                                                                           |

- Step103. The Inbound IDoc contains the Material '4150' in the receiver system.

**IDoc Display: 0000000000200023**

| IDoc display |                                             |
|--------------|---------------------------------------------|
| -            | Doc 0000000000200023                        |
| +            | Control Rec.                                |
| +            | Data records                                |
| +            | EINARAH                                     |
|              | Segment 00001                               |
|              | ZHARA_EXT                                   |
|              | EIMARA1                                     |
|              | EIMAKTM                                     |
| +            | Status records                              |
| +            | 53                                          |
|              | Application document posted                 |
| +            | 62                                          |
|              | IDoc passed to application                  |
| +            | 64                                          |
|              | IDoc ready to be transferred to application |
| +            | 50                                          |
|              | IDoc added                                  |

**Technical short info**

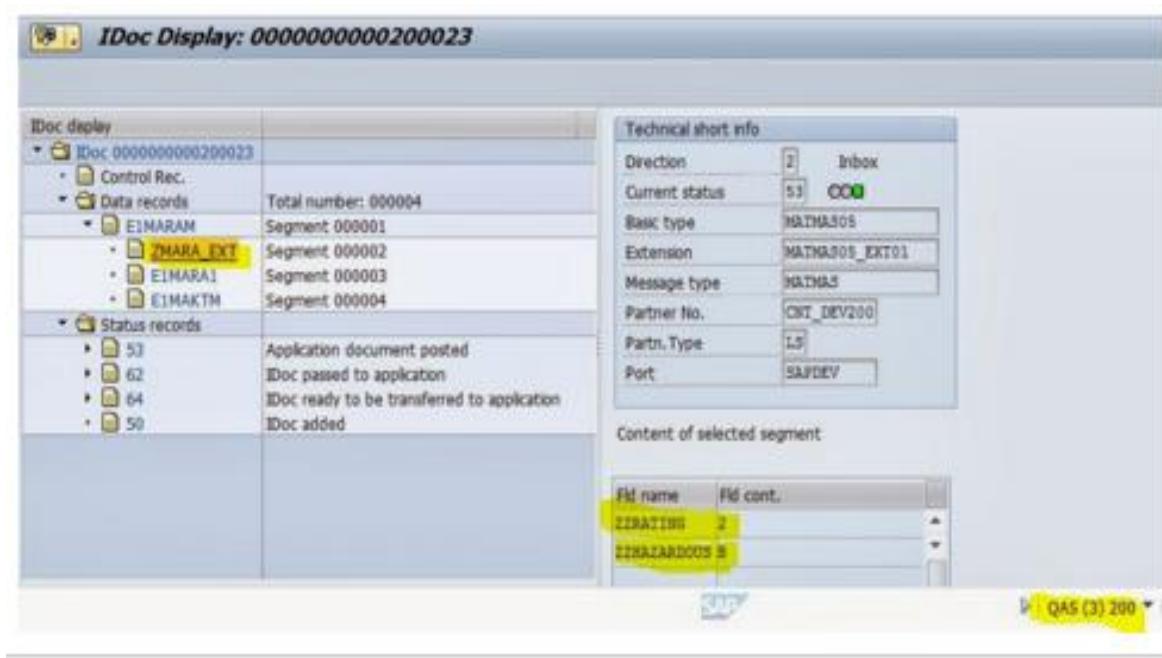
|                |                |       |
|----------------|----------------|-------|
| Direction      | 2              | Inbox |
| Current status | 53             | OO    |
| Basic type     | MATHAS05       |       |
| Extension      | MATHAS05_EXT01 |       |
| Message type   | MATHAS         |       |
| Partner No.    | CIT_DEV200     |       |
| Partn.Type     | LT             |       |
| Port           | SAPDEV         |       |

**Content of selected segment**

| Fld name | Fld cont.        |
|----------|------------------|
| KDGTN    | 009              |
| KATNR    | 0000000000004150 |
| ERSDA    | 20131116         |
| ERNM     | DEVELOPER        |
| LAEDA    | 00000000         |
| VSTAT    | X                |

QAS (3) 200

- Step104. The segment 'ZMARA\_EXT' contains the additional information in the receiver system.



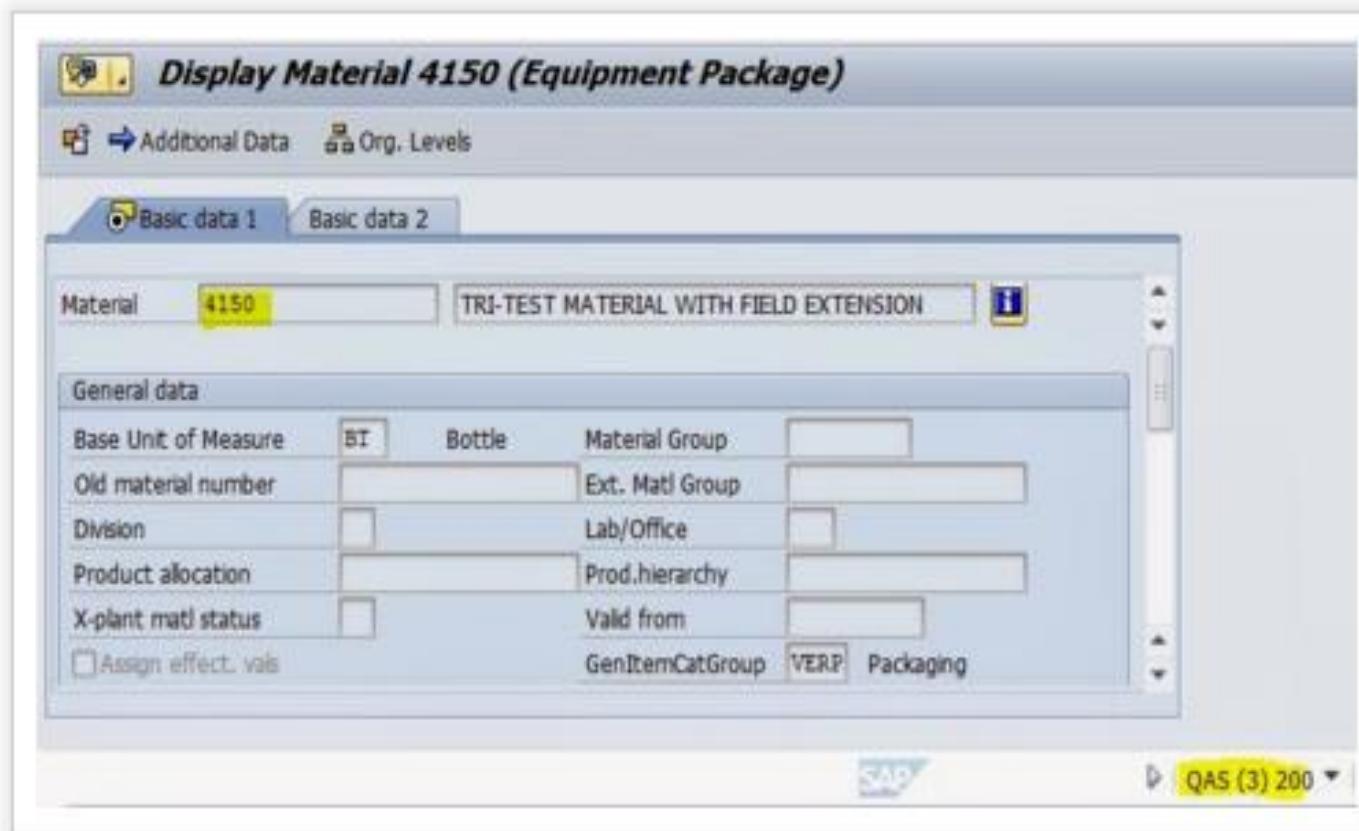
- Step105. Now go to Tcode- MM03 in the receiver system.



- Step106. provide teh material number 4150 and hit enter button.



- Step107. The material is created in the receiver system..



- Step108. To check the additional field details available in the table or not go to tcode- SE11 in the receiver system.



- Step109. Provide the table name and click on Display button.



Step 110 :The additional fields values are available in the table.

| Data Browser: Table MARA Select Entries 1 |            |           |          |             |
|-------------------------------------------|------------|-----------|----------|-------------|
| Check Table...                            |            |           |          |             |
| MATNR                                     | ERSDA      | ERNAM     | ZZRATING | ZZHAZARDOUS |
| 00000000000004150                         | 16.11.2013 | DEVELOPER | 2        | B           |