

# TECHSAP

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Saturday, 16 November 2013

## Extending standard IDoc

### Transferring of Material Master From One SAP Server to another SAP server by 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.

Sender System : DEV, Client-200

Receiving System : QAS, Client-200

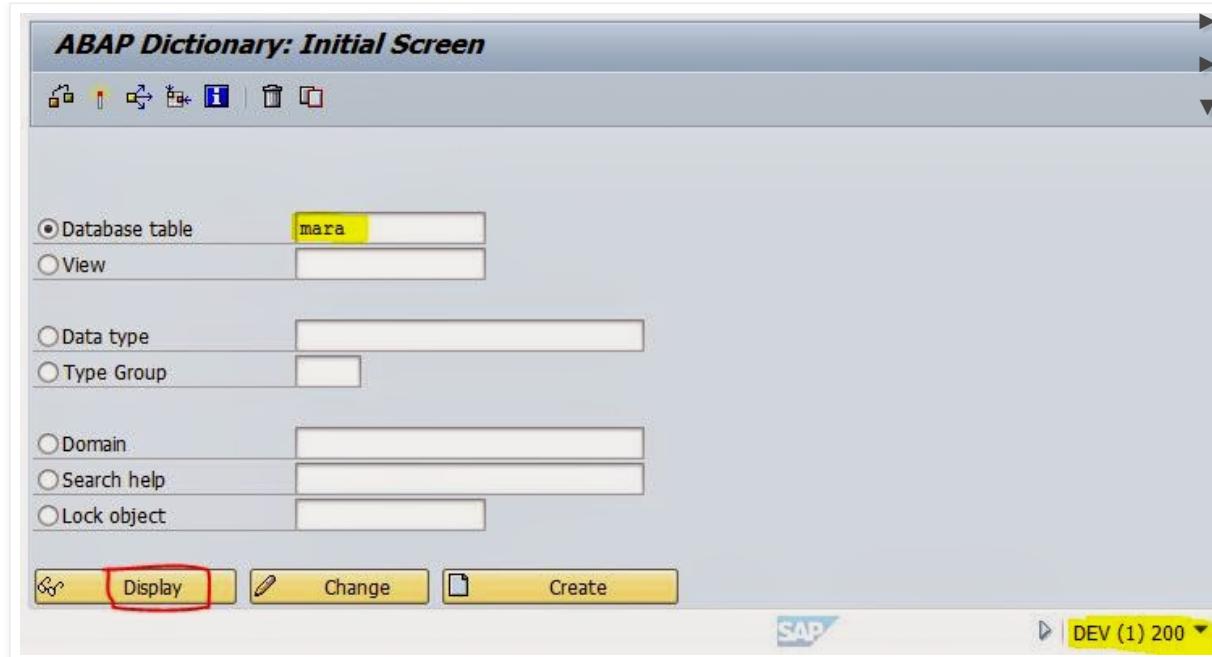
Step1. Go to Tcode- SE11 in the sender system.



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

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    - Creating a Service in SICF & Consuming it.
    - Extending standard IDoc
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    - ALE IDOC with Change Pointer Technique
    - ALE IDOC with Segment Filtering
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    - Transferring table records from One Client to Ano...

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

**Dictionary: Display Table**

Field	Key	Ini...	Data element	Data Type	Length	Deci...	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"/>	EMARA	STRU	0	0	Data Division MARA
ERSDA	<input type="checkbox"/>	<input type="checkbox"/>	ERSDA	DATS	8	0	Created On
ERNAM	<input type="checkbox"/>	<input type="checkbox"/>	ERNAM	CHAR	12	0	Name of Person who Created the Object
LAEDA	<input type="checkbox"/>	<input type="checkbox"/>	LAEDA	DATS	8	0	Date of Last Change
AENAM	<input type="checkbox"/>	<input type="checkbox"/>	AENAM	CHAR	12	0	Name of Person Who Changed Object

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Creation of Table Control in Module Pool Program

Description: Table Control generally used to display Multiple records in a single

Step4. Click on the Create Button .

screen. Step 1. Create a Module Pool Program , declare ...

Step5. Create the append structure and activate the same.

Step6. Activate the table.

### OO ALV WITH CONTAINERS

1. OO ALV USING DOCKING CONTAINER d...

### MODULE POOL

SIMPLE PROGRAM ON MODULE POOL Scenario :

...

### Modal Dialog Box (Pop Up Screen) In Module pool program

Description : Modal Dialog Box is a Pop up window which is displayed on the top of the screen. When calling this type of screen we have to...

### Chain - EndChain In Module Pool Program

### 10. Smartform :Designing a template in Smartform

### Customer Exit (Screen Exit)-ME21N/ME22N/ME23N-Header

Step1. Go to Tcode- ME21N. Let it be as a requirement, we need some customer specific input field on the header section of the screen. A...



### Creating Lock Object and Using Lock in Program

Step 1. Go to TCODE- SE11, Provide the lock object name and Click on

**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 Initi... Data element Data Type Length Deci... Short Description

FIBER\_CODES		WRF\_FIBER\_CODE\_5	CHAR	3	0	Fiber Code for Textiles (Component 5)
FIBER\_PARTS		WRF\_FIBER\_PART\_5	NUMC	3	0	Percentage Share of Fiber (Component 5)
.APPEND		WSSM\_EFASHGRD	STRU	0	0	Slowseller Management: Degree of Fashion
FASHGRD		FASHGRD	CHAR	4	0	Fashion Grade
.APPEND		ZALE\_MAT	STRU	0	0	APPNED STRUCTUER FOR IDOC EXTENSION
ZZRATING		ZRATING	NUMC	1	0	Material Rating
ZHAZARDOUS		ZHAZARDOUS	CHAR	1	0	HAZARDOUS Material

Create Button. Step 2.  
Provide the Short text and cli...

Creating Tab Strip In Module Pool Program

----- Descri...

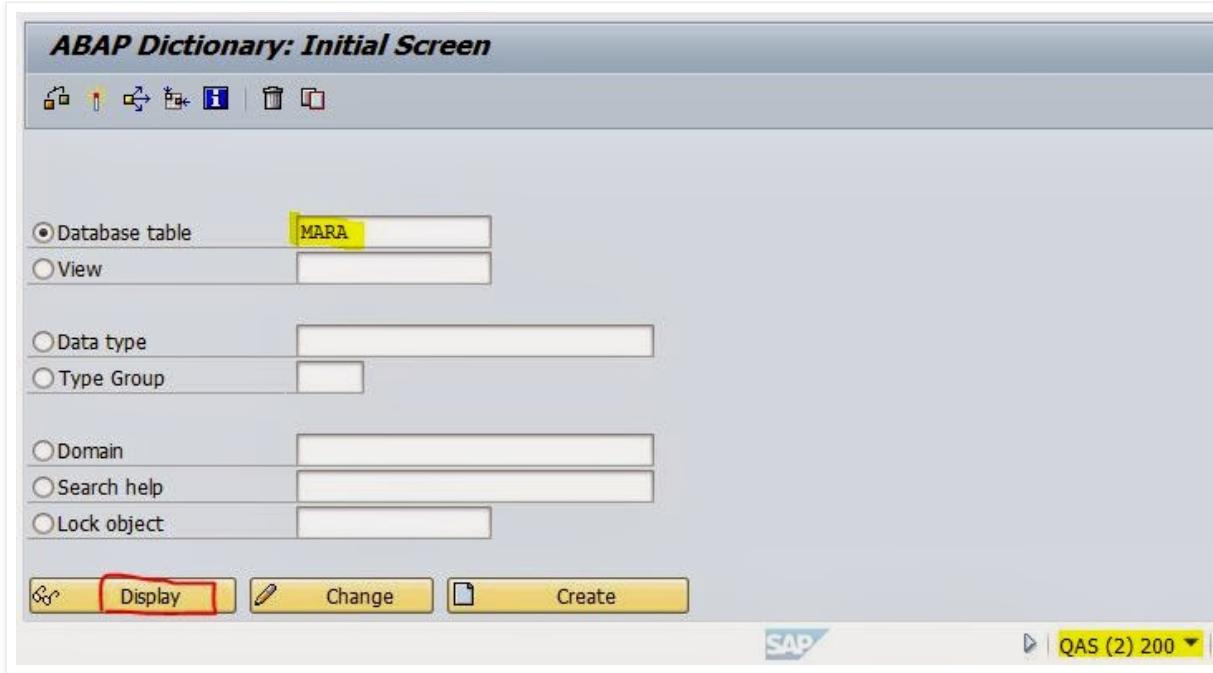
### CLASSICAL REPORT PROGRAMS

\*\*\*\*\*VERY SIMPLE REPORT PROGRAM  
TO DISPLAY RECORDS FROM SPFLI  
TABLE\*\*\*\* \* REPORT  
ZCLASSICAL\_REPORT\_01 NO  
STANDARD PAGE HEADING LINE-...

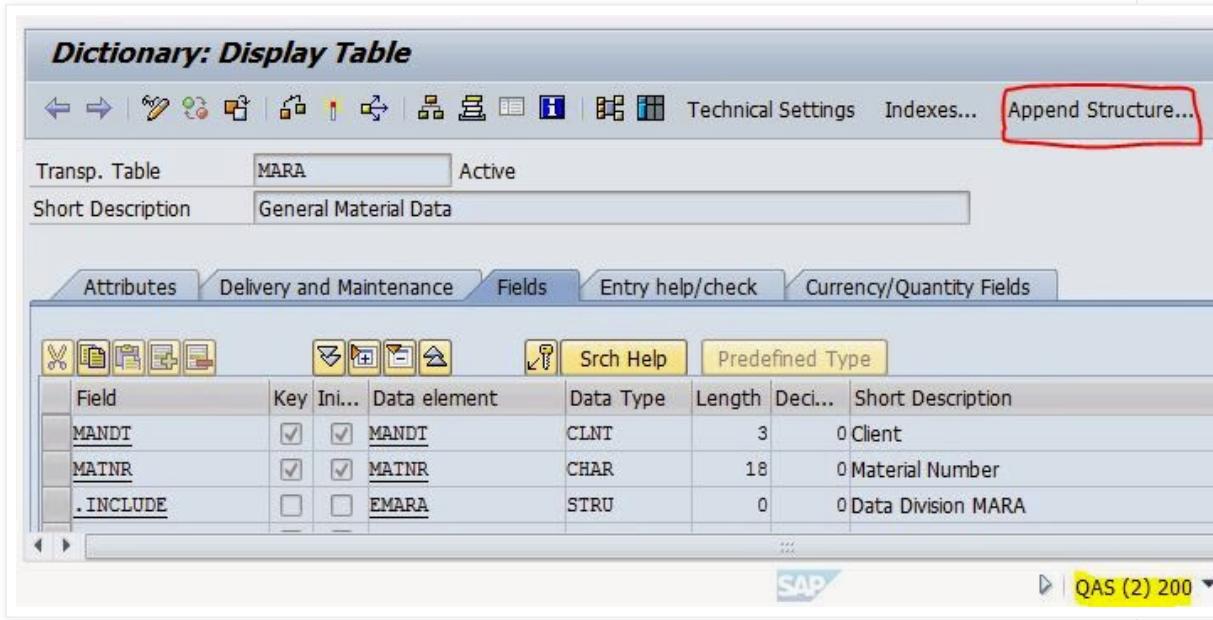
Step7. The same thing needs to be repeated in the receiver system. Go to Tcode- SE11 in the receiver system.



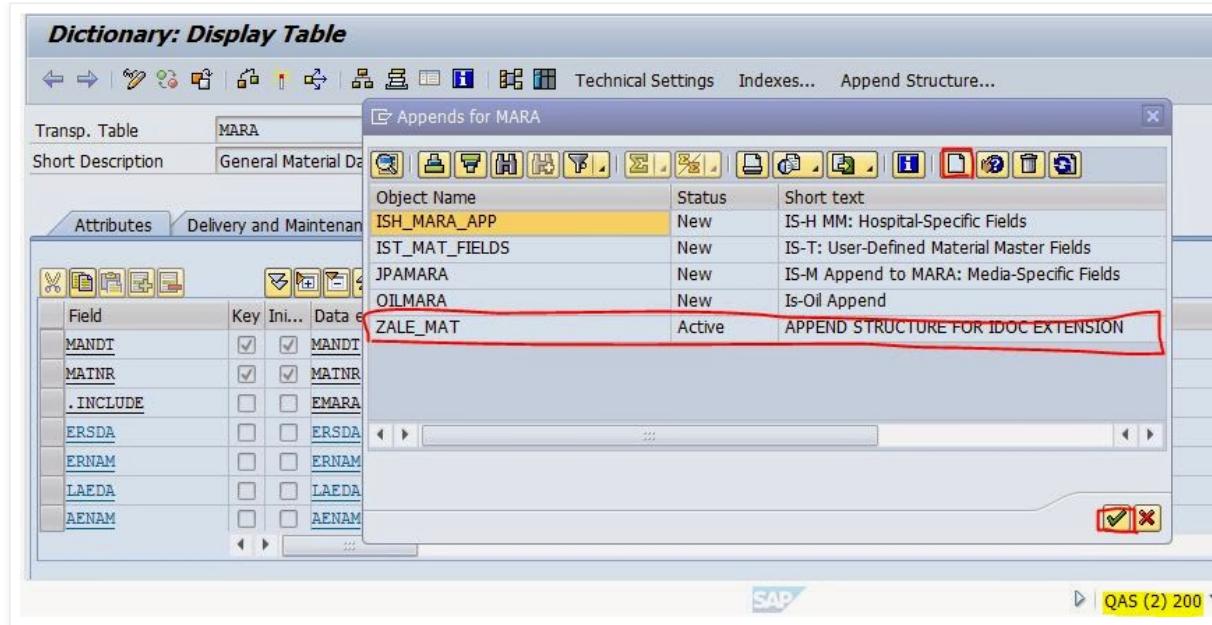
Step8. Provide the table name and click on Display button.



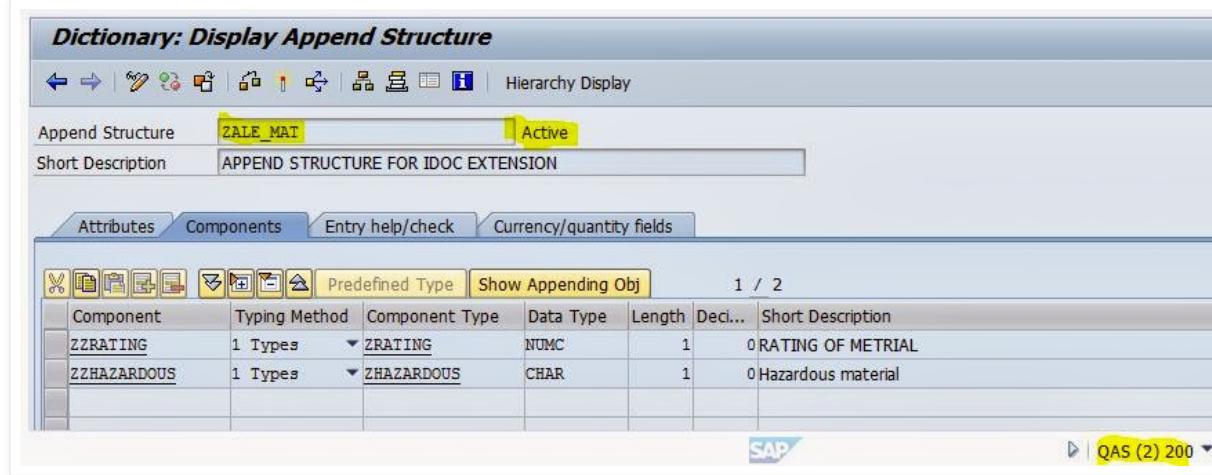
Step9. Click on the Append Structure button.



Step10. Click on the Create button.



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



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

Predefined Type

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Field	Key	Ini...	Data element	Data Type	Length	Deci...	Short Description
FIBER_CODES	<input type="checkbox"/>	<input type="checkbox"/>	WRF_FIBER_CODE_5	CHAR	3	0	Fiber Code for Textiles (Component 5)
FIBER_PARTS	<input type="checkbox"/>	<input type="checkbox"/>	WRF_FIBER_PART_5	NUMC	3	0	Percentage Share of Fiber (Component 5)
.APPEND	<input type="checkbox"/>	<input type="checkbox"/>	WSSM_EFASHGRD	STRU	0	0	SlowSeller Management: Degree of Fashion
FASHGRD	<input type="checkbox"/>	<input type="checkbox"/>	FASHGRD	CHAR	4	0	Fashion Grade
<b>.APPEND</b>	<input type="checkbox"/>	<input type="checkbox"/>	<b>ZALE_MAT</b>	STRU	0	0	<b>APPEND STRUCTURE FOR IDOC EXTENSION</b>
ZZRATING	<input type="checkbox"/>	<input type="checkbox"/>	ZRATING	NUMC	1	0	RATING OF METRIAL
ZZHAZARDOUS	<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.



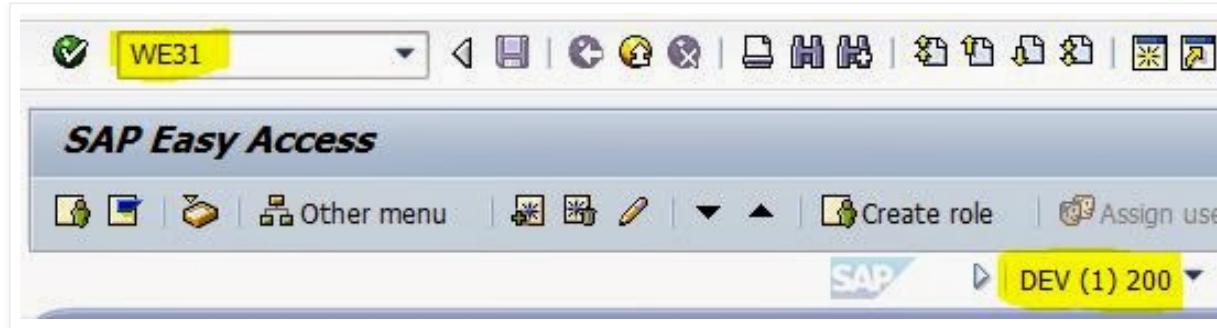
Step15. Provide the below code and activate it.

The screenshot shows the ABAP Editor's change report screen for "ZUPDATE\_MARA". The title bar says "ABAP Editor: Change Report ZUPDATE\_MARA". The code in the editor is:

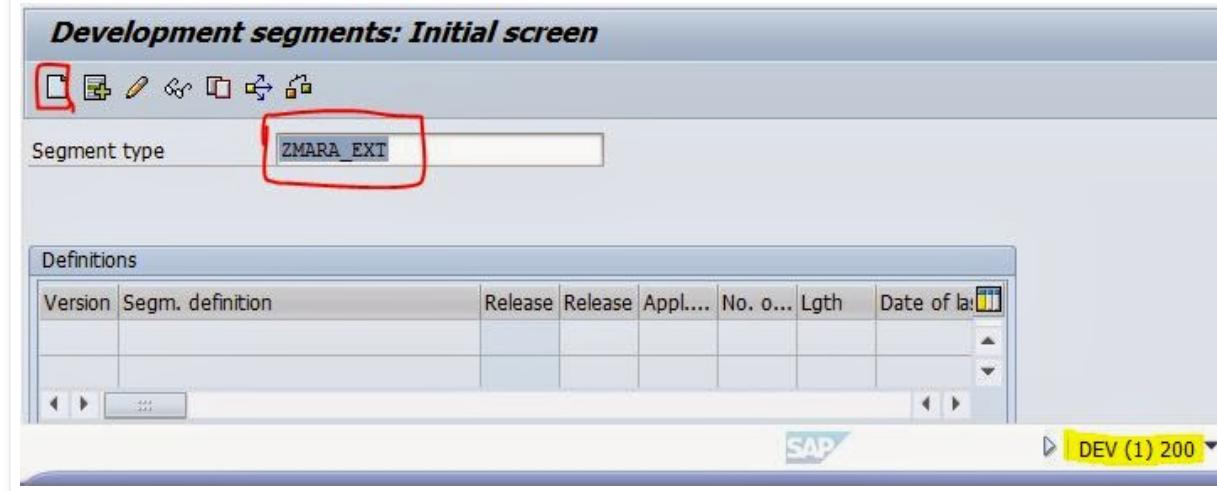
```
REPORT zupdate_mara.
TABLES : mara.
SELECTION-SCREEN : BEGIN OF BLOCK b1.
PARAMETERS: p_matnr TYPE mara-matnr OBLIGATORY,
            p_ratng TYPE mara-zzrating,
            p_hazad TYPE mara-zzhazardous.
PARAMETERS : ch AS CHECKBOX.
SELECTION-SCREEN : END OF BLOCK b1.
START-OF-SELECTION.
  SELECT SINGLE * FROM mara WHERE matnr = p_matnr.
  IF sy-subrc = 0.
    IF ch = 'X'.
      UPDATE mara SET zzrating = p_ratng
                    zzhazardous = p_hazad
                    WHERE matnr = p_matnr.
      IF sy-subrc = 0.
        MESSAGE 'MARA TABLE UPDATED' TYPE 'I'.
      ELSE.
        MESSAGE 'TABLE NOT UPDTAED' TYPE 'E'.
      ENDIF.
    ELSE.
      MESSAGE 'UPDATE NOT SELECTED' TYPE 'E'.
    ENDIF.
  ELSE.
    MESSAGE 'NO RECORD FOUND' TYPE 'E'.
  ENDIF.
```

The code handles selecting a record from the MARA table based on the input parameter `p_matnr`. If a checkbox `ch` is checked ('X'), it updates the `zzrating` and `zzhazardous` fields. It then checks if the update was successful. If successful, it sends an information message; otherwise, an error message is sent. If no record was found, an error message is sent. The code is annotated with several yellow highlights, including the entire `IF ch = 'X'` block and the `UPDATE` statement itself.

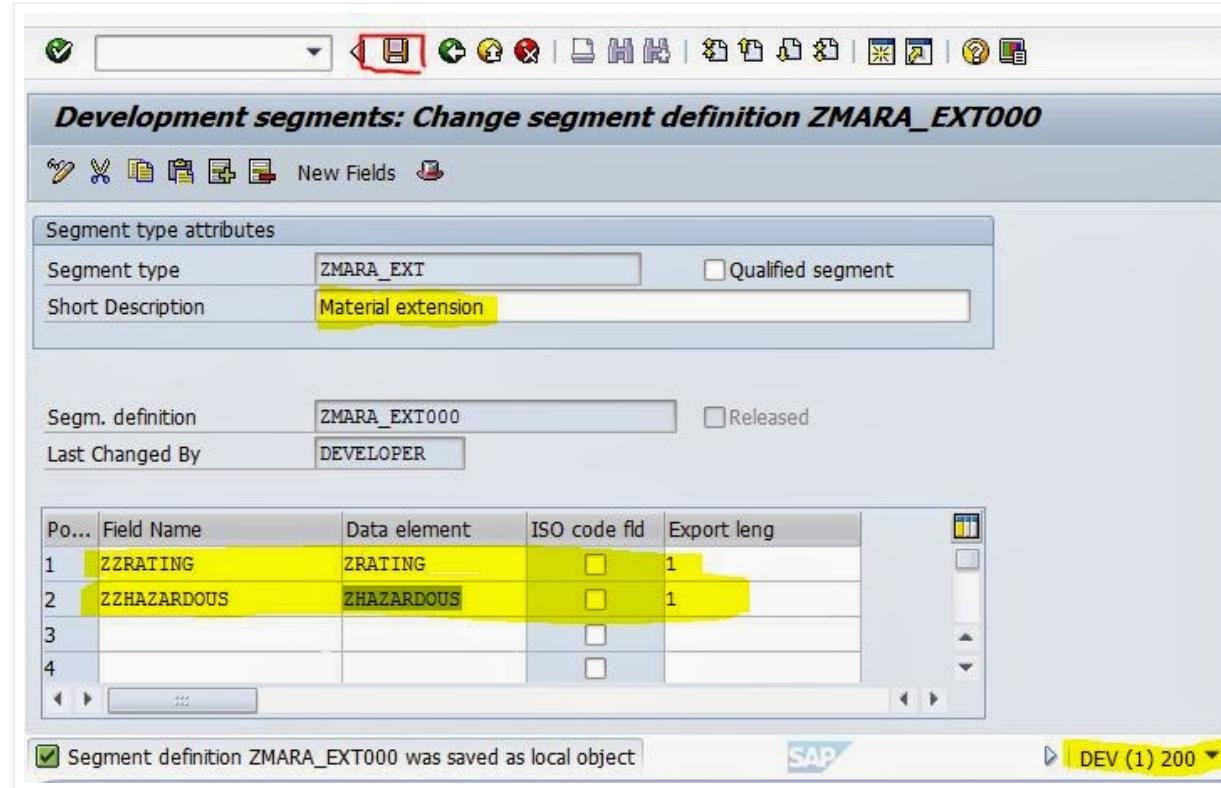
Step16. To create a custom segment, go to Tcode- WE31 in the sender system.



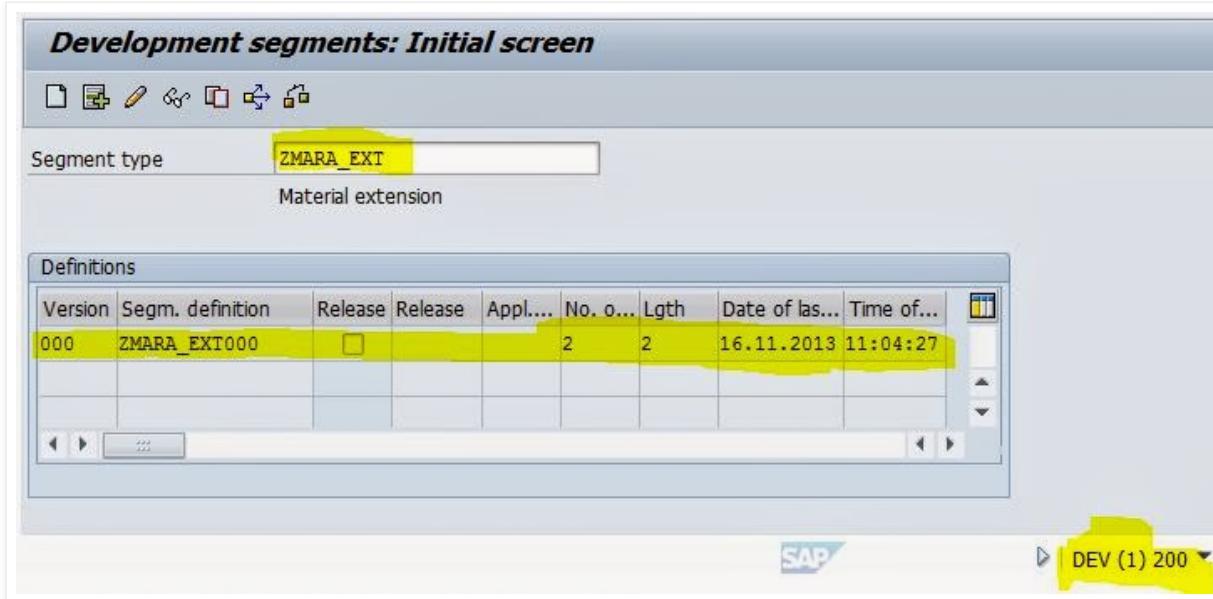
Step17. Provide the segment name as : ZMARA\_EXT & click on Create button.



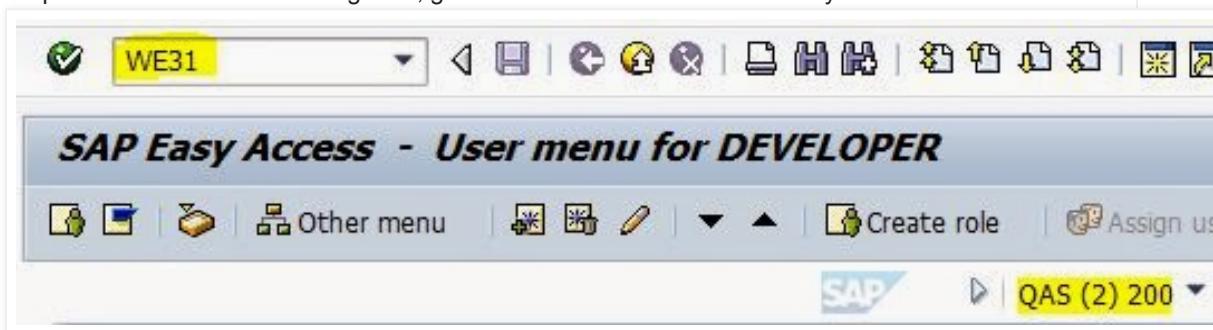
Step18. Provide the description, two fields and Save it and at last go Back.



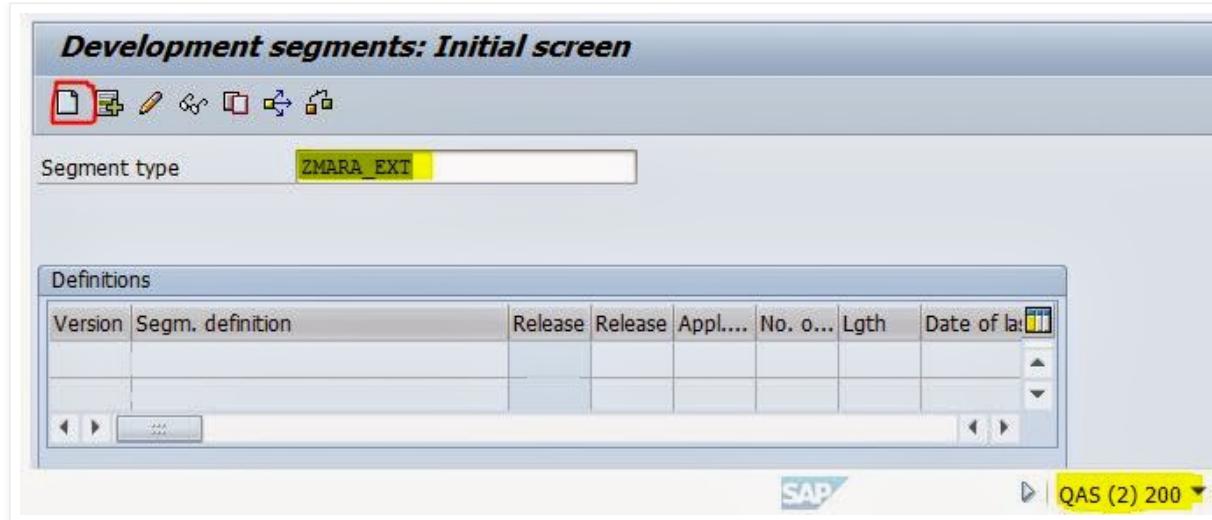
Step19. The Segment is created in the sender system. Repeat the same step in the receiver system.



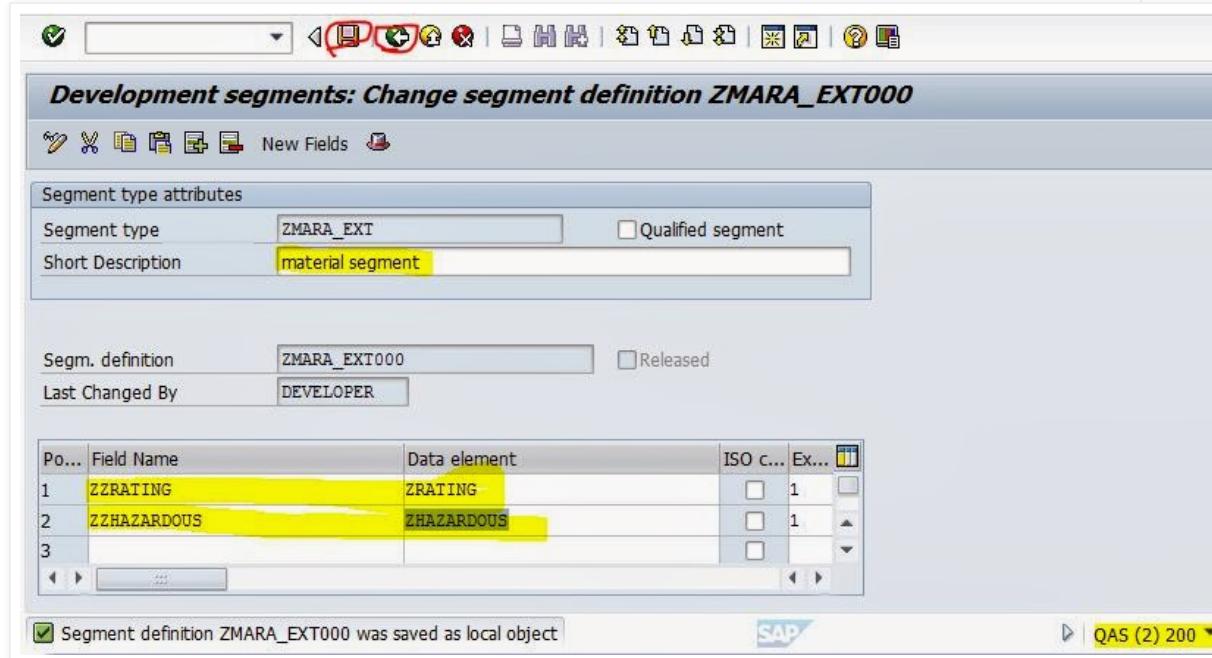
Step20. To create a custom segment, go to Tcode- WE31 in the receiver system.



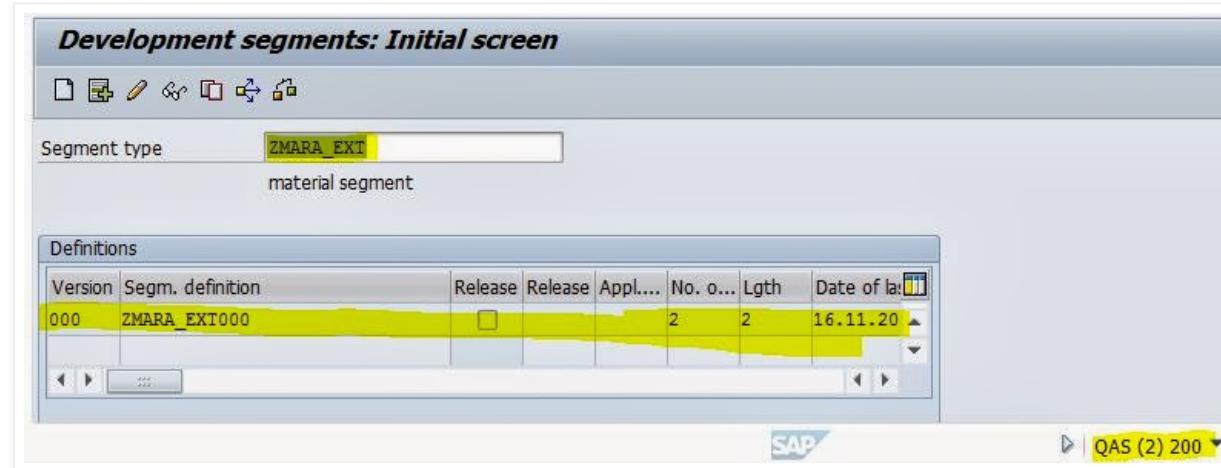
Step21. Provide the segment name as : ZMARA\_EXT & click on Create button.



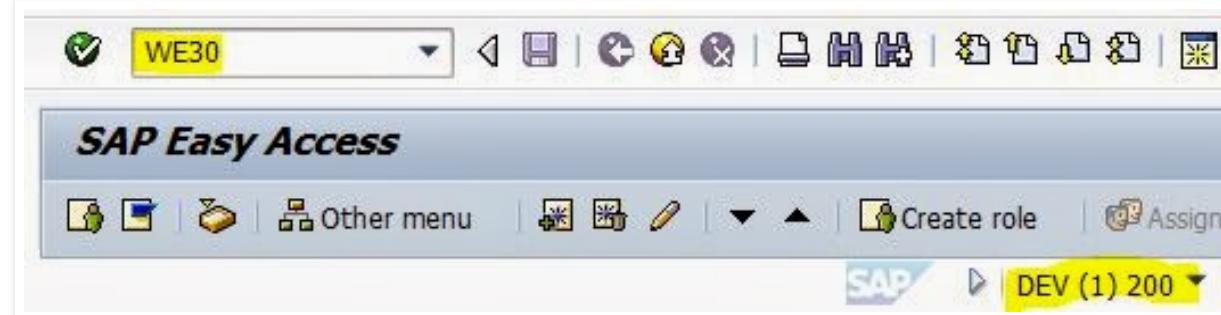
Step22. Provide the description, two fields and Save it and at last go Back.



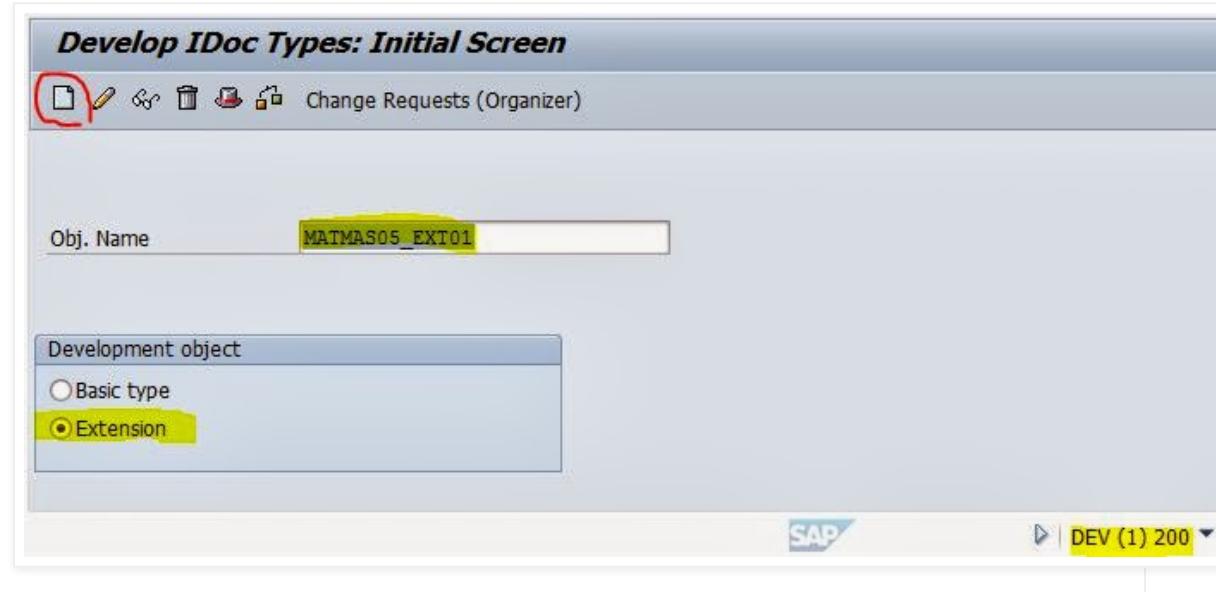
Step23. The Segment is created in the receiver system.



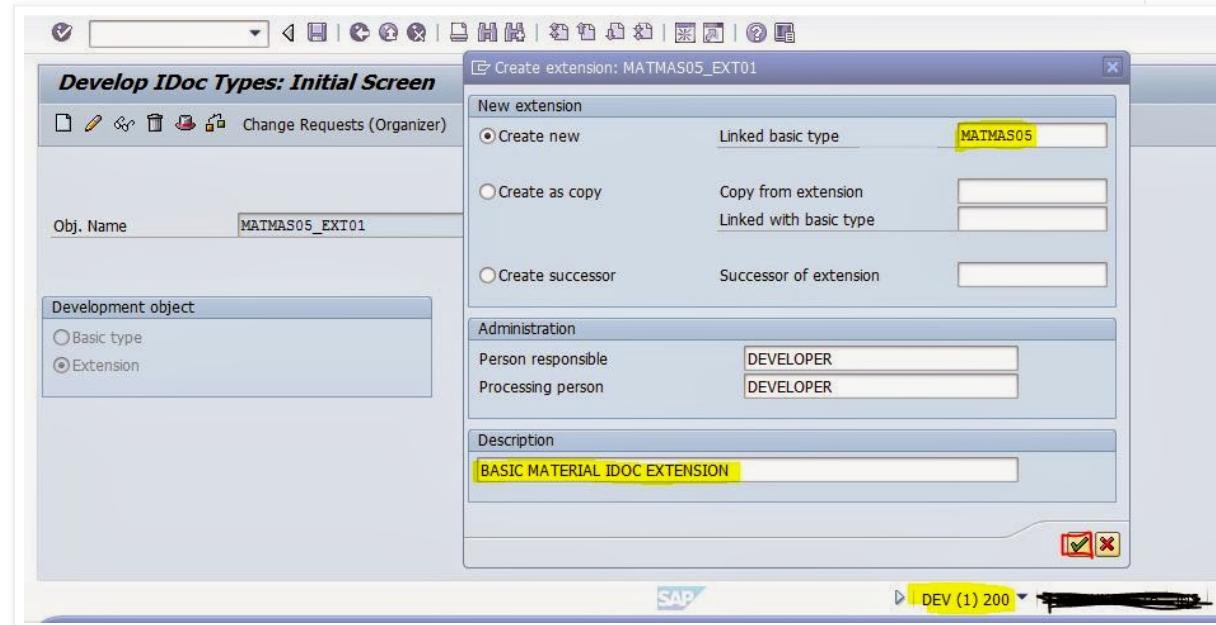
Step24. Create an extended Idoc in the sender system. Go to Tcode- WE30.



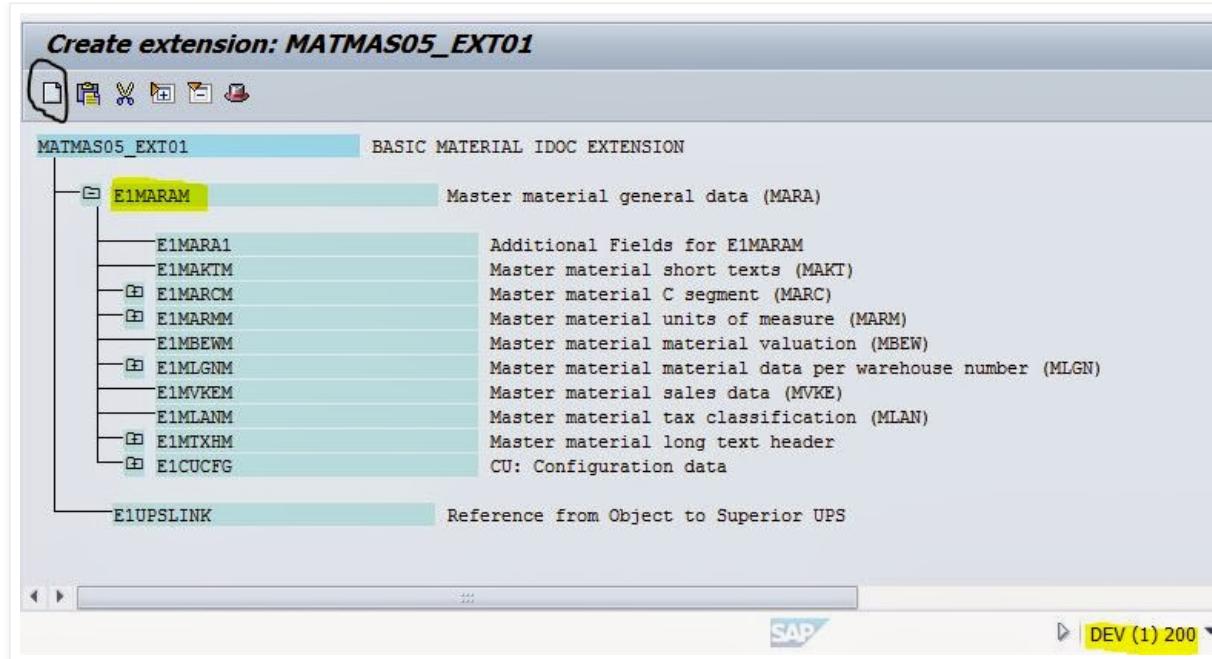
Step25. Provide the name and select the Extension Radio Button and click on Create Button.



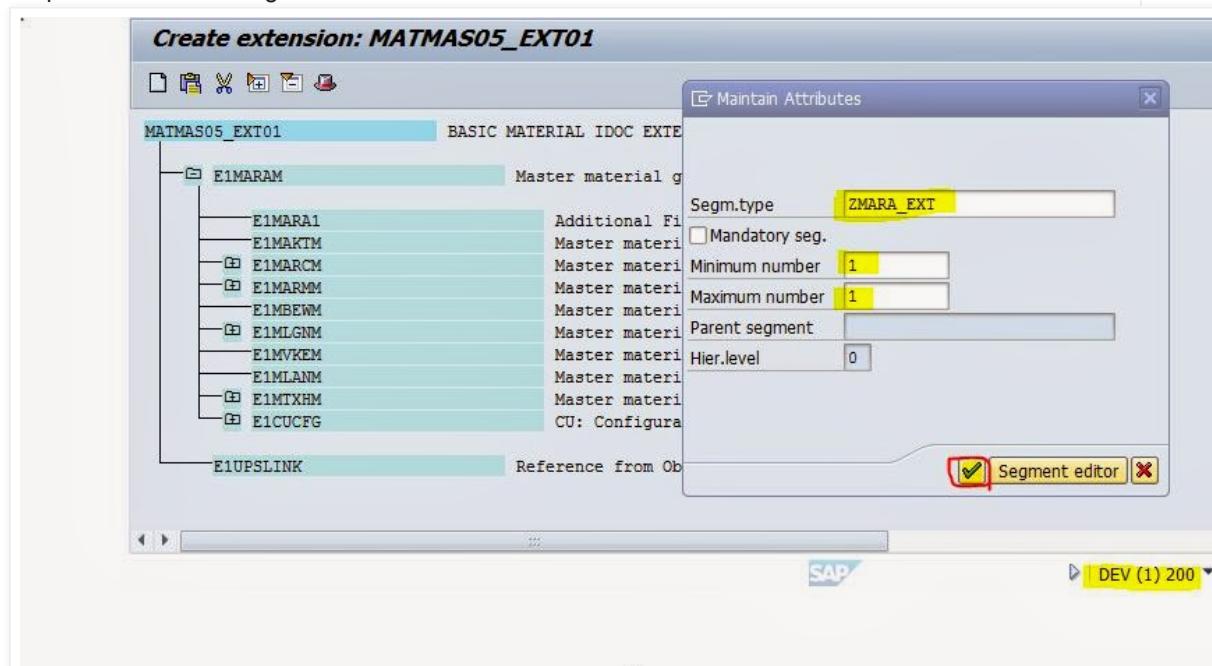
Step26. Provide the Basic Idoc name to be extended, provide the short description and click on continue button.



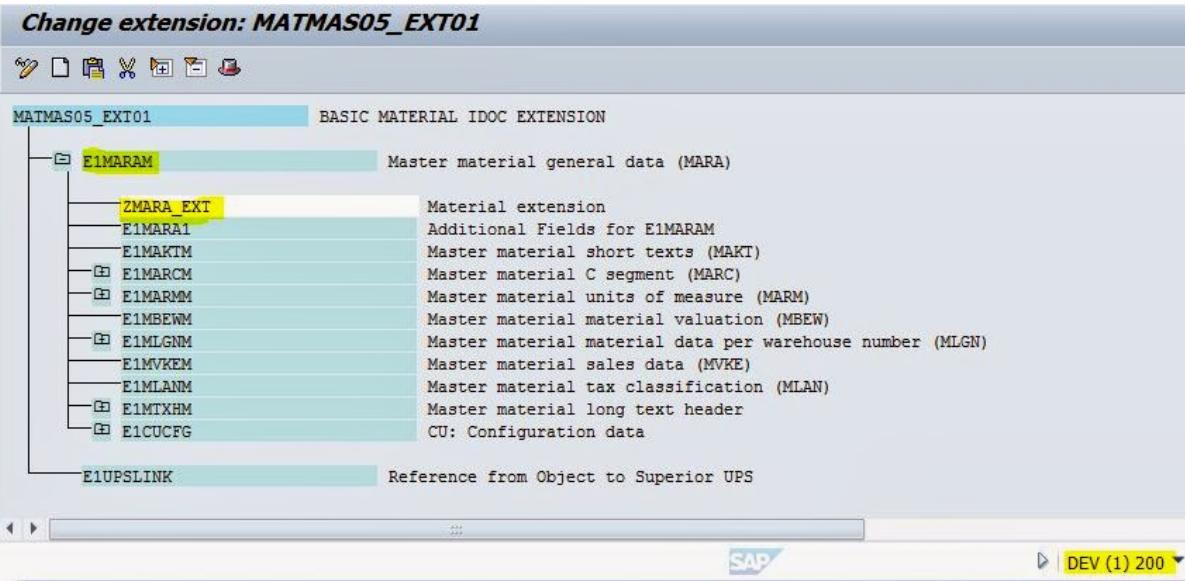
Step27. Select the Segment 'E1MARAM' and click on create button.



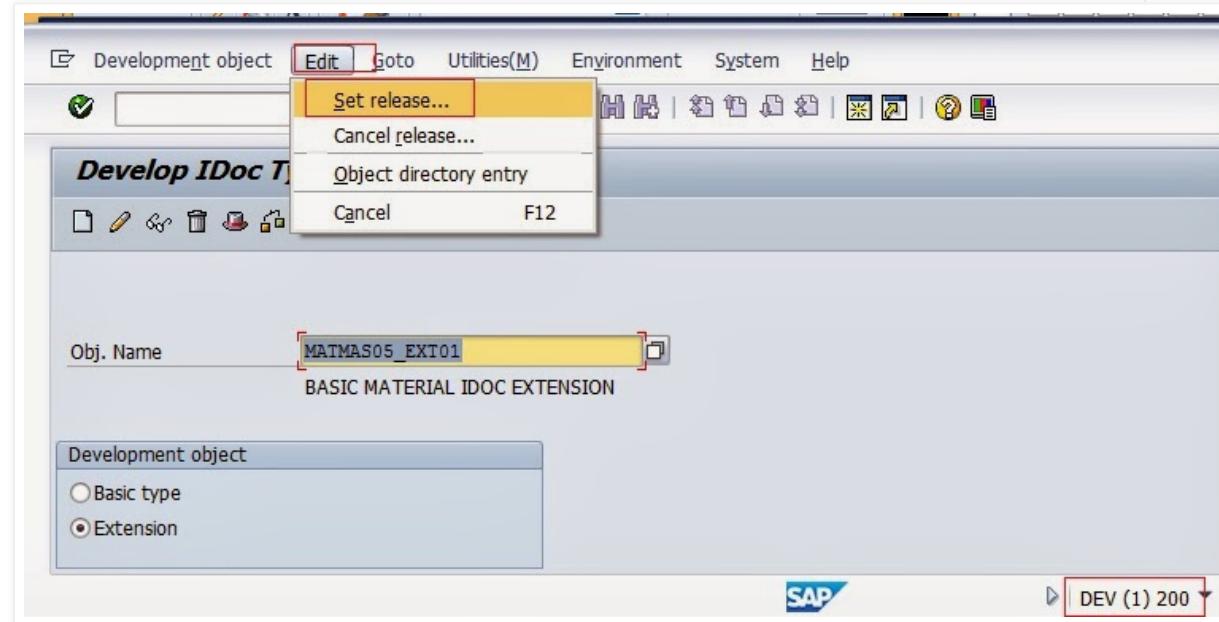
Step28. Provide the Segment Name and click on Continue button.



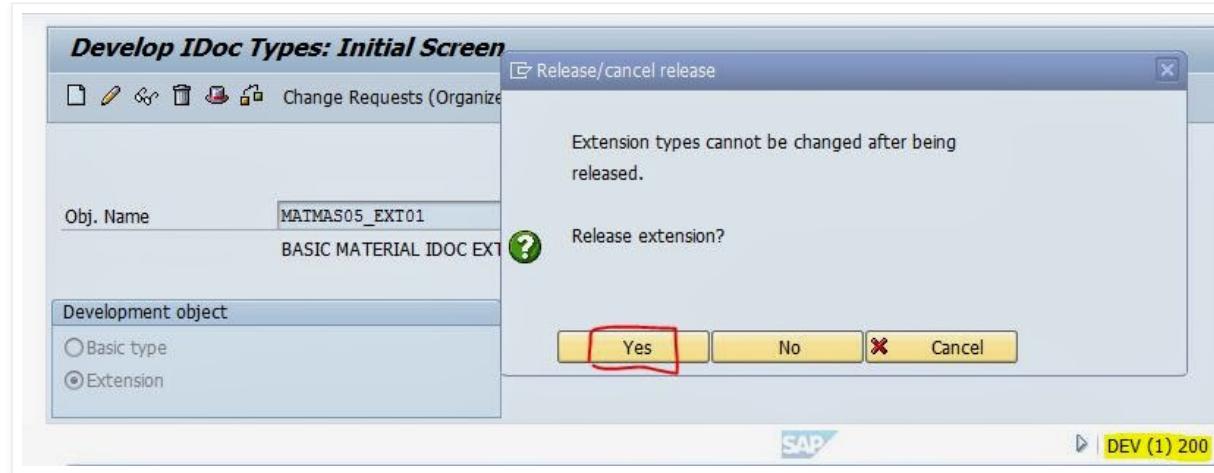
Step29. The Segment is properly added. Save it and Go Back.



Step30. Release the Extended Idoc.



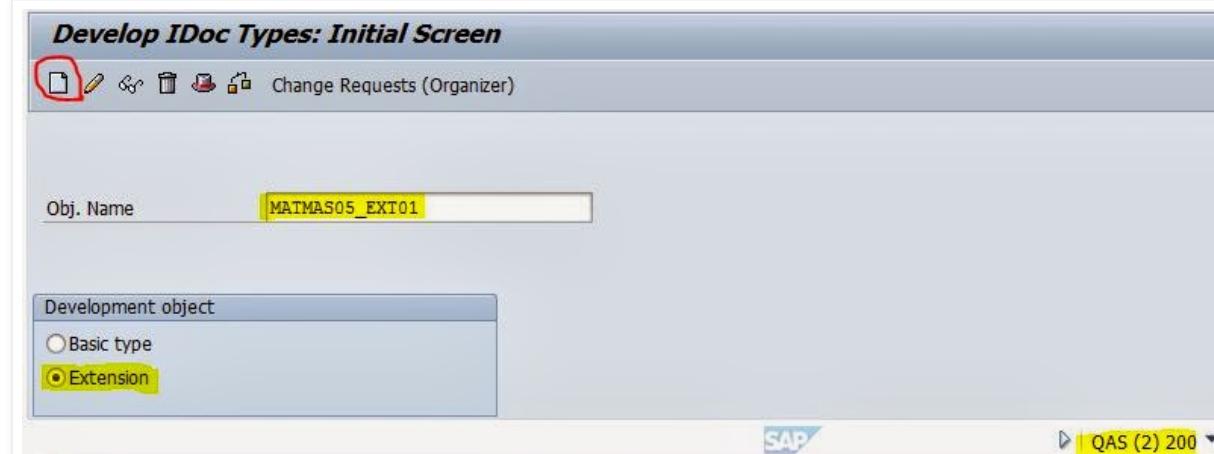
Step31. Click on Save button.



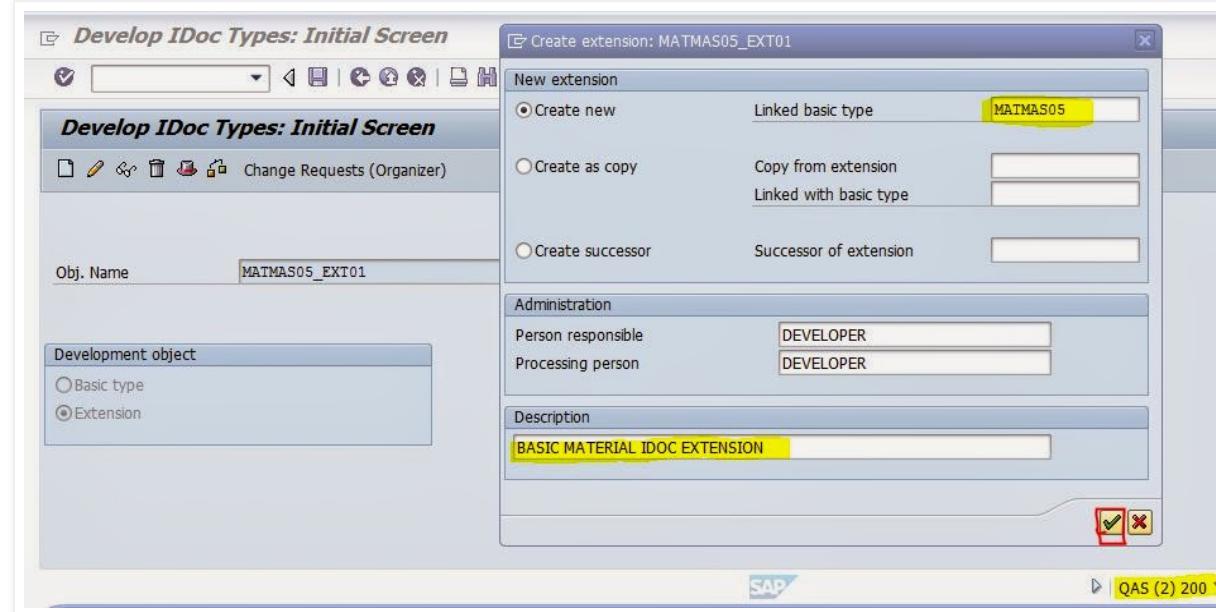
Step32. Create an extended Idoc in the receiver system. Go to Tcode- WE30.



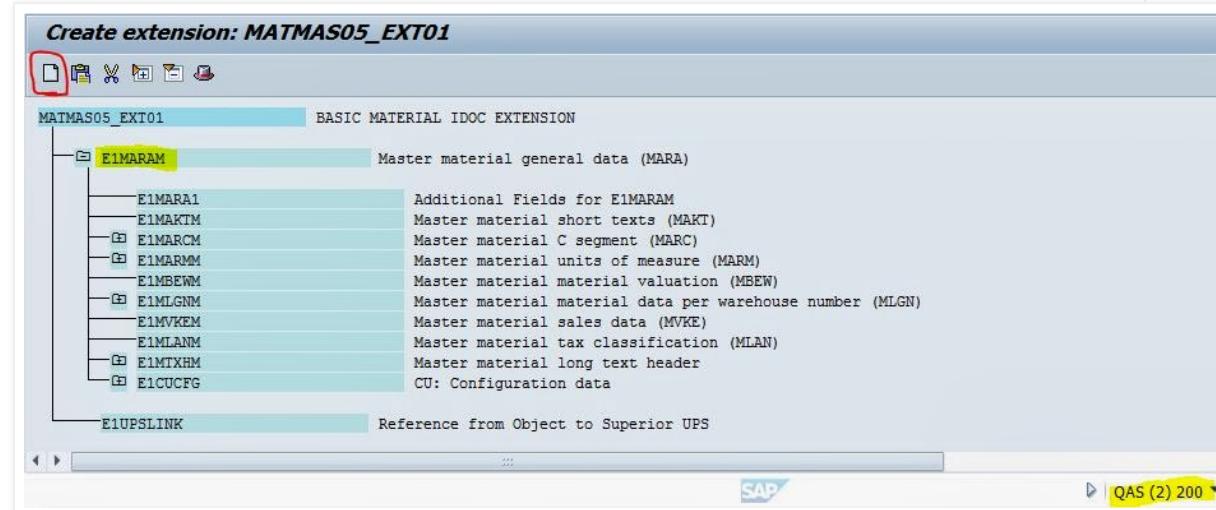
Step33. Provide Name, select the Extension Radio Button and click on Create Button.



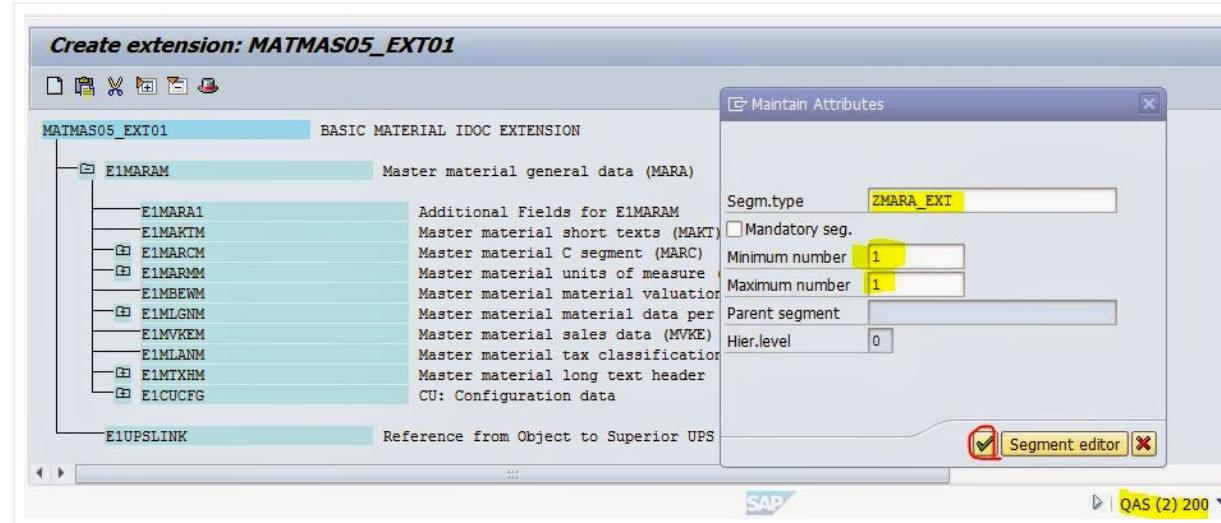
Step34. Provide the Basic IDoc name, Provide the short text and click on continue button.



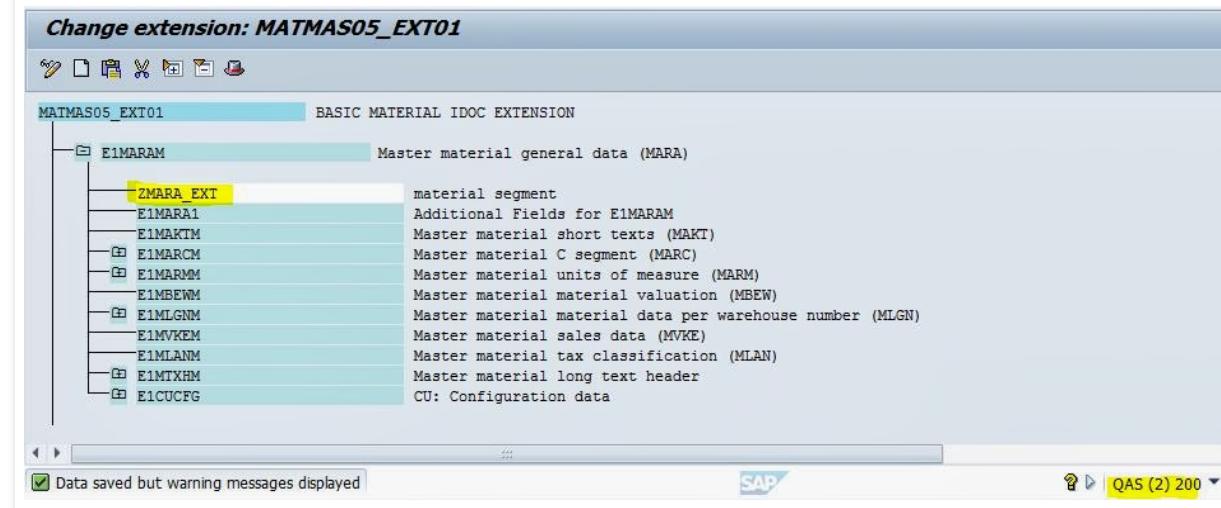
Step35. Select the Segment 'E1MARAM' and click on create button.



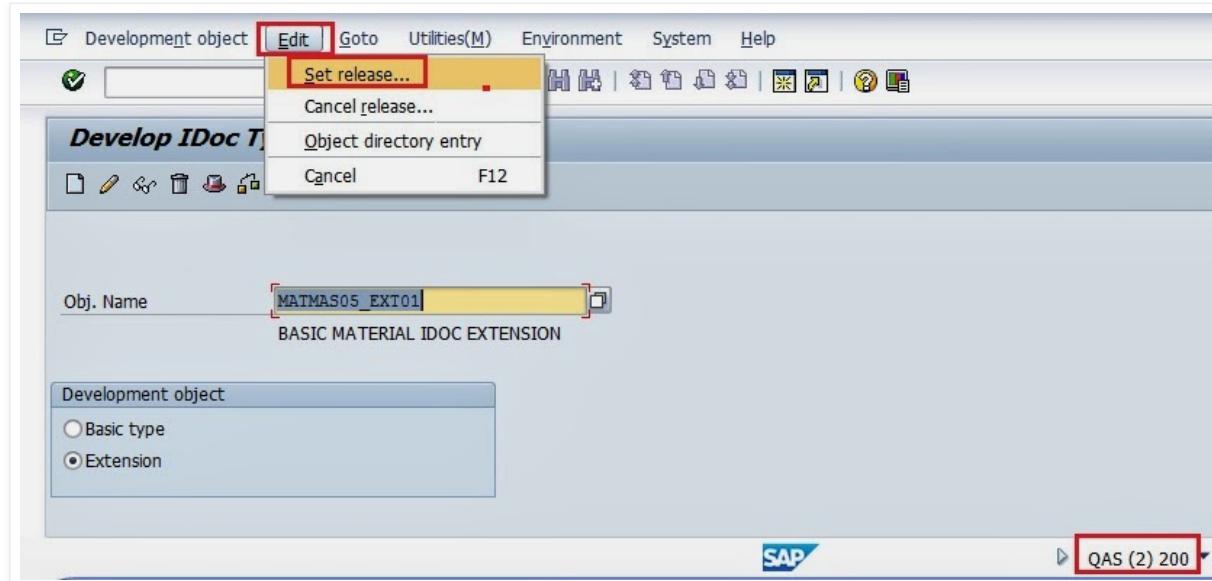
Step36. Provide the Segment Name and click on Continue button.



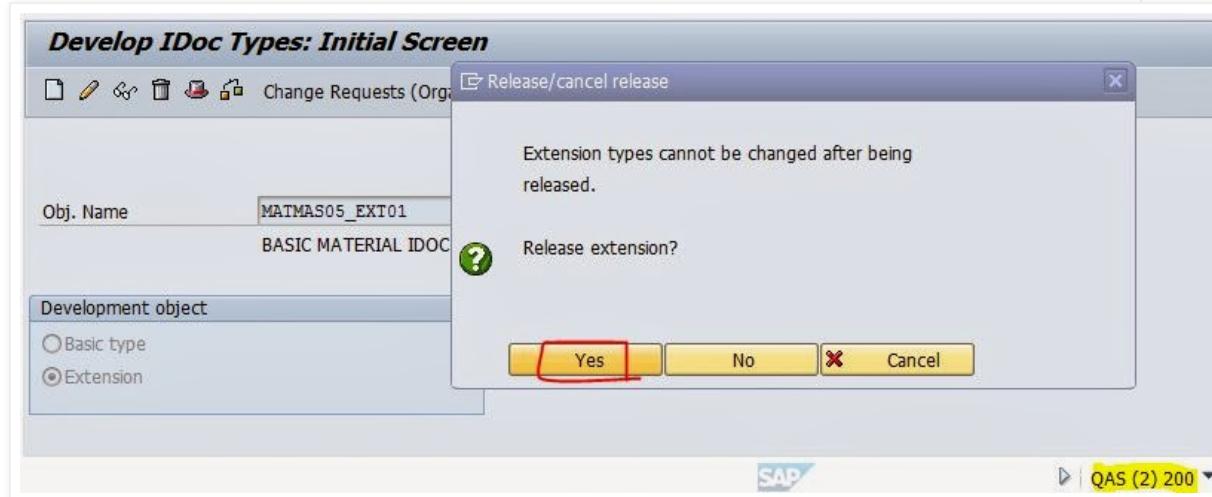
Step37. The Segment is properly added. Save it and Go Back.



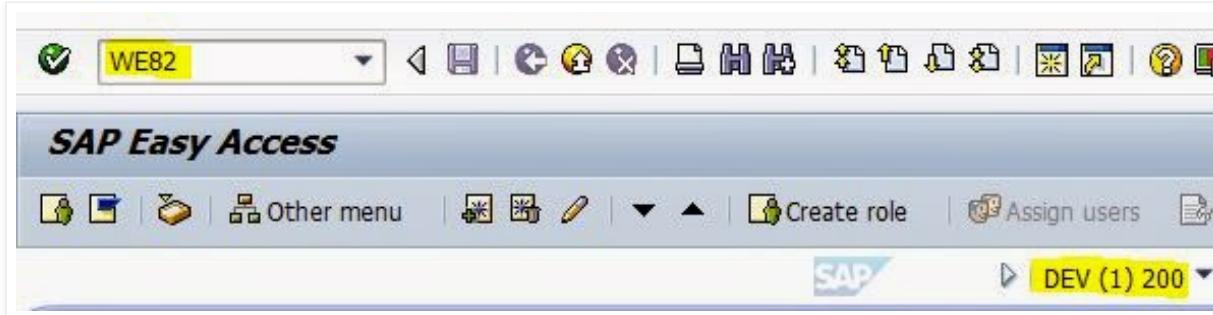
Step38. Release the Extended Idoc.



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.

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

The screenshot shows a table titled 'Output Types and Assignment to IDoc Types'. The columns are 'Message Type', 'Basic type', 'Extension', and 'Release'. The first few rows of data are:

Message Type	Basic type	Extension	Release
/BEV1/NEMAT	/BEV1/NEMATMAS05		701
/CWM/MBGMCR	/CWM/MBGMCR01		620
/CWM/SHP_IBDLV_...	/CWM/SHP_IBDLV_...		640
/CWM/SHP_IBDLV_...	/CWM/SHP_IBDLV_...		620
/CWM/SHP_IBDLV_...	/CWM/SHP_IBDLV_...		620
/CWM/SHP_OBDLV_...	/CWM/SHP_OBDLV_...		640
/CWM/SHP_OBDLV_...	/CWM/SHP_OBDLV_...		620

At the bottom left is a 'Position...' button, and in the center is the text 'Entry 1 of 2,190'. The bottom right shows the SAP logo and the context 'DEV (1) 200'. A red circle highlights the 'New Entries' button in the toolbar above the table.

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/NEMATMAS05		701
/CWM/MBGMCR	/CWM/MBGMCR01		620

Position... Entry 1 of 2,190

SAP DEV (1) 200

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

**New Entries: Overview of Added Entries**

Output Types and Assignment to IDoc Types

Message Type	Basic type	Extension	Release
MATMAS	MATMAS05	MATMAS05_EXT01	701
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

SAP DEV (1) 200

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

WE20

**SAP Easy Access**

Other menu Create role Assign users

SAP DEV (1) 200

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, there's a tree view of partner profiles. A node labeled 'Partner Type LS' is expanded, and one of its children, 'CNT\_QAS200', is highlighted with a red box. The main panel displays details for 'Partner No. CNT\_QAS200' (Logical system for QAS client 200 in DE) and 'Partn.Type LS' (Logical system). It also shows post-processing settings for a permitted agent (Ty.: US, Agent: DEVELOPER, Lang.: EN) and an outbound parameters table. The 'Message Type' column in this table has a row where 'MATMAS' is highlighted with a red box. The bottom right corner shows a status bar with 'DEV (1) 200'.

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

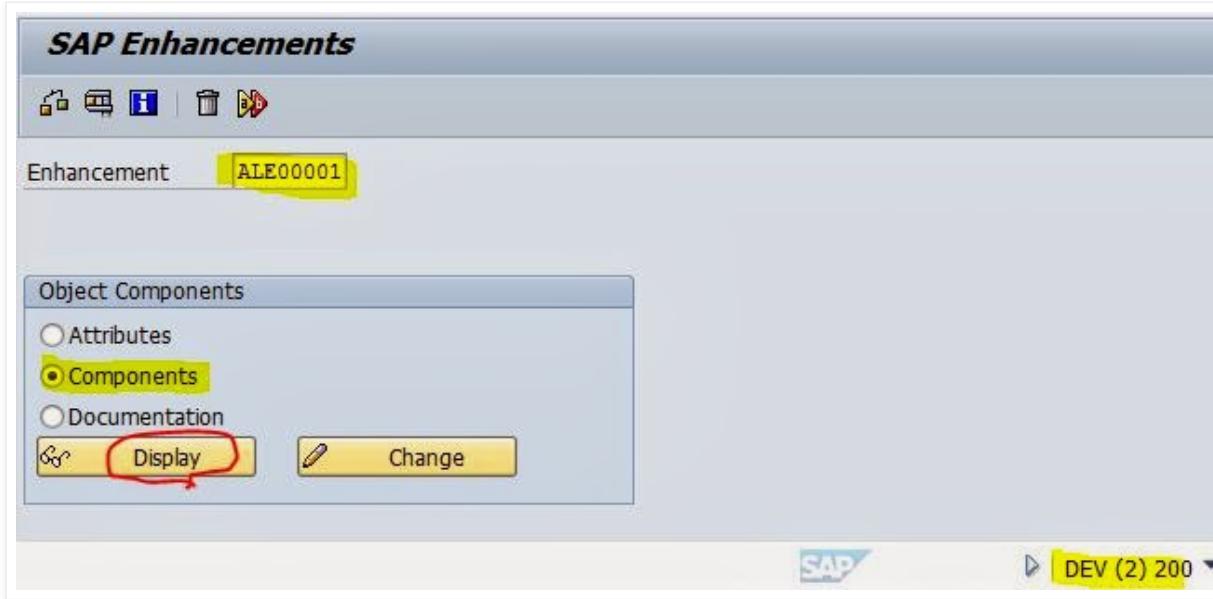
**Partner profiles: Outbound parameters**

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

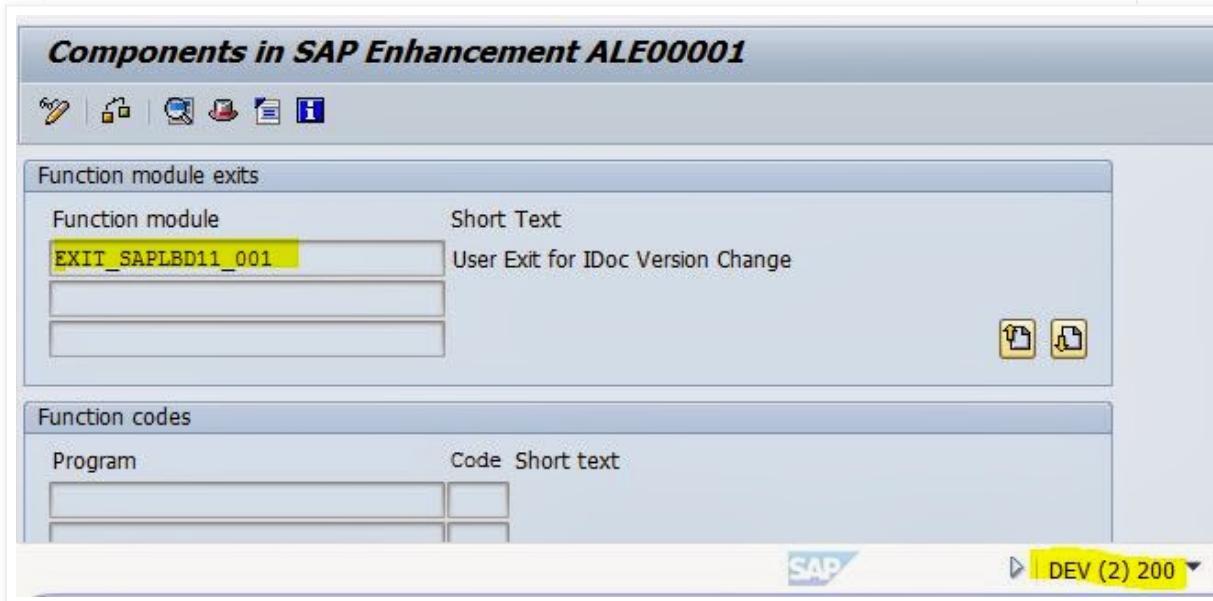
Step47. Now we have to find out a Exit so that we can add the material extra information. Go to Tcode- SMOD in the Sender System.



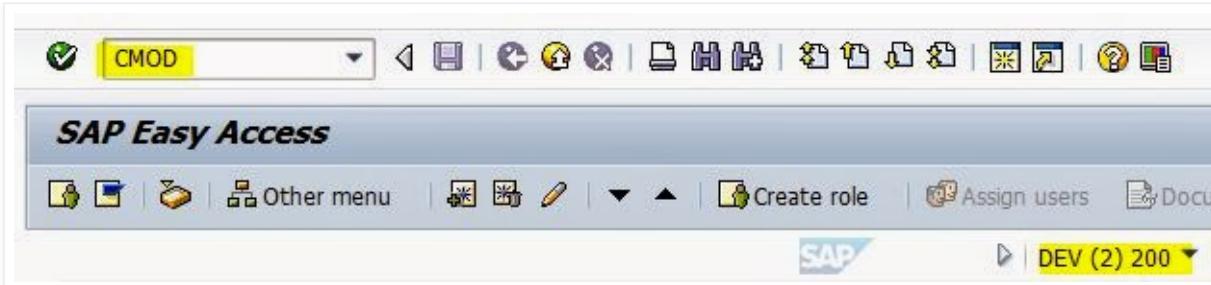
Step48. The enhancement 'ALE00001' is available for the material IDoc extension. Click on the Display button.



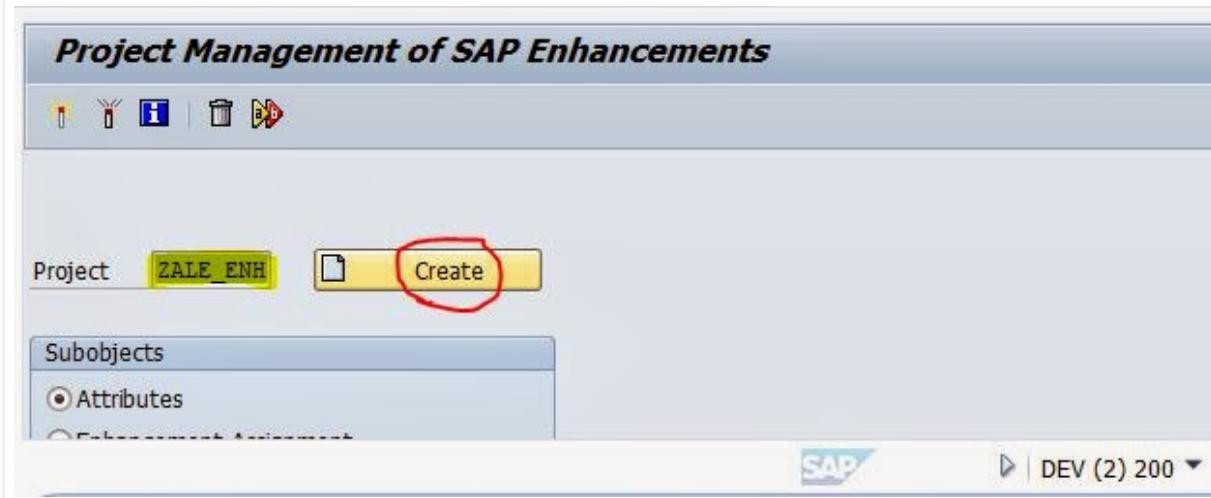
Step49. The function module is available.



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

SAP DEV (2) 200

Step53. Provide the enhancement name and click on Components.

**SAP Enhancements in Enhancement Project ZALE\_ENH**

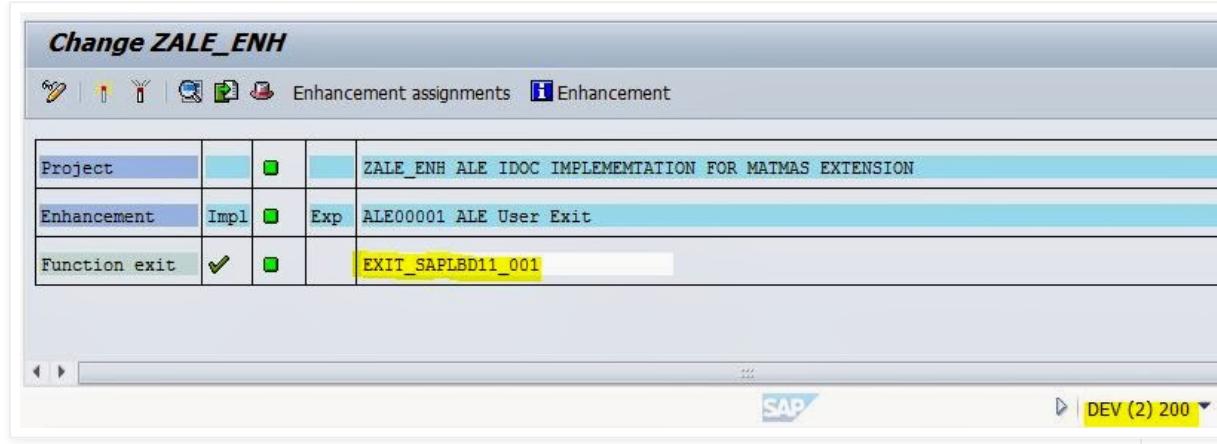
Enhancement Components

Enhancement Text

ALE00001	ALE User Exit

SAP DEV (2) 200

Step54. Now double click on the Function Module name.



Step55. Double click on the Include to implement it.

The screenshot shows the SAP Function Builder interface for the function module EXIT\_SAPLBD11\_001. The "Source code" tab is selected. The code editor displays the following code:

```
13: - *"
14:
15: INCLUDE zxsbdu01.
16:
17:
18: ENDFUNCTION.
```

The line "INCLUDE zxsbdu01." is highlighted with a red box. The SAP logo and the system context "DEV (2) 200" are at the bottom right.

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

**ABAP Editor: Change Include ZXSDU01**

```

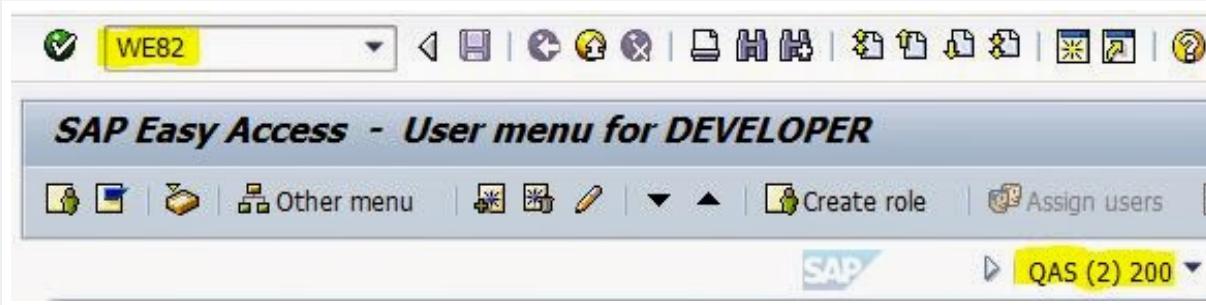
Include ZXSDU01 Active
4  DATA : ls_eimaram TYPE eimaram,
5    ls_zmara_ext TYPE zmara_ext,
6    idx TYPE i.
7  CASE idoc_control_in-direct.
8    WHEN '1'.
9      IF idoc_control_in-mestyp = 'MATMAS'.
10     LOOP AT idoc_data.
11       CASE idoc_data-segnam.
12         WHEN 'EIMARAM'.
13           ls_eimaram = idoc_data-sdata.
14           idx = sy-tabix.
15           SELECT SINGLE zzrating zzhazardous FROM mara INTO
16             (ls_zmara_ext-zzrating, ls_zmara_ext-zzhazardous)
17             WHERE matnr = ls_eimaram-matnr.
18         ENDCASE.
19       ENDLOOP.
20       idx = idx + 1.
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 | DEV (2) 200

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.

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

The screenshot shows the SAP GUI interface for displaying output types and assignments. The title bar reads "Display View 'Output Types and Assignment to IDoc Types': Overview". Below the title bar is a toolbar with several icons. The main area contains a table titled "Output Types and Assignment to IDoc Types" with four columns: Message Type, Basic type, Extension, and Release. There are four entries listed in the table. At the bottom of the screen, there is a navigation bar with icons for "Position...", "Entry 1 of 2.176", the SAP logo, and a dropdown menu set to "QAS (2) 200".

Message Type	Basic type	Extension	Release
/BEV1/NEMAT	/BEV1/NEMATMAS05		701
/CWM/MBGMCR	/CWM/MBGMCR01		620
/CWM/SHP_IBDLV_...	/CWM/SHP_IBDLV_...		640
/CWM/SHP_IBDLV_...	/CWM/SHP_IBDLV_...		620

Step59. Click on the New Entries Button.

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

The screenshot shows the SAP GUI interface for changing output types and assignments. The title bar reads "Change View 'Output Types and Assignment to IDoc Types': Overview". Below the title bar is a toolbar with several icons. The main area contains a table titled "Output Types and Assignment to IDoc Types" with four columns: Message Type, Basic type, Extension, and Release. There are seven entries listed in the table. The "New Entries" button in the toolbar is highlighted with a red box. At the bottom of the screen, there is a navigation bar with icons for "Position...", "Entry 1 of 2.176", the SAP logo, and a dropdown menu set to "QAS (2) 200".

Message Type	Basic type	Extension	Release
/BEV1/NEMAT	/BEV1/NEMATMAS05		701
/CWM/MBGMCR	/CWM/MBGMCR01		620
/CWM/SHP_IBDLV_...	/CWM/SHP_IBDLV_...		640
/CWM/SHP_IBDLV_...	/CWM/SHP_IBDLV_...		620
/CWM/SHP_IBDLV_...	/CWM/SHP_IBDLV_...		620
/CWM/SHP_OBDLV_...	/CWM/SHP_OBDLV_...		640
/CWM/SHP_OBDLV_...	/CWM/SHP_OBDLV_...		620

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

New Entries: Overview of Added Entries

Message Type	Basic type	Extension	Release
MATMAS	MATMAS05	MATMAS05_EXT01	701

Data was saved

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

SAP Easy Access - User menu for DEVELOPER

WE57

Other menu | Create role | Assign users

QAS (2) 200

Step62. Click on the Edit button

IDoc: Assignment of FM to Log. Message and IDoc Type": O									
IDoc: Assignment of FM to Log. Message and IDoc Type									
FM Name	F.. BasicType	Enhanc.	Messg. Type	V...	Fct.	Obje...	+	Descriptn	
/DSD/ME_IDOC_I...	▼ /DSD/HH_C...		/DSD/HH_CO...				.▼	DSD Control Out	
/DSD/ME_IDOC_I...	▼ /DSD/HH_C...		/DSD/HH CU...				.▼	DSD Customer M	
/DSD/ME_IDOC_I...	▼ /DSD/HH_M...		/DSD/HH_MA...				.▼	DSD Material Mas	▲
/DSD/ME_IDOC_I...	▼ /DSD/HH_P...		/DSD/HH_PA...				.▼	DSD Payment Te	

Position... Entry 1 of 2.084

SAP QAS (2) 200 ▾

Step63. Click on the New Entries Buton

Change View "IDoc: Assignment of FM to Log. Message and IDoc Type": Ov									
IDoc: Assignment of FM to Log. Message and IDoc Type									
FM Name	F.. BasicType	Enhanc.	Messg. Type	V...	Fct.	Obje...	+	Descriptn	
/DSD/ME_IDOC_I...	▼ /DSD/HH_C...		/DSD/HH_CO...				.▼	DSD Control Out	
/DSD/ME_IDOC_I...	▼ /DSD/HH_C...		/DSD/HH CU...				.▼	DSD Customer M	
/DSD/ME_IDOC_I...	▼ /DSD/HH_M...		/DSD/HH_MA...				.▼	DSD Material Mas	▲
/DSD/ME_IDOC_I...	▼ /DSD/HH_P...		/DSD/HH_PA...				.▼	DSD Payment Te	

Position... Entry 1 of 2.084

SAP QAS (2) 200 ▾

Step64. Provide the function module name 'IDOC\_INPUT\_MATMAS01', basic Idoc tpe, 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.

New Entries: Details of Added Entries

Function module: IDOC\_INPUT\_MATMAS01

Function type: F Function module

Basic type: MATMAS05

Extension: MATMAS05\_EXT01

Message Type: MATMAS

Message Variant:

Mess. function:

Object Type:

IDoc: Assignment of FM to Log. Message and IDoc Type

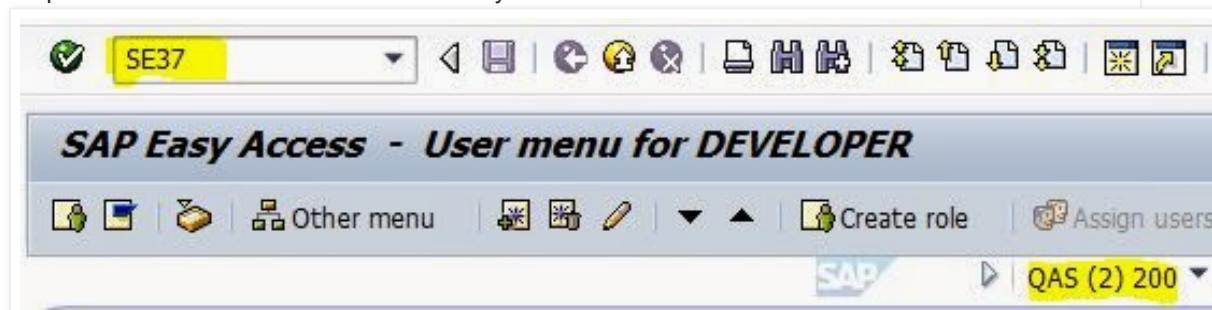
Direction: 2 Inbound

Description: Material master

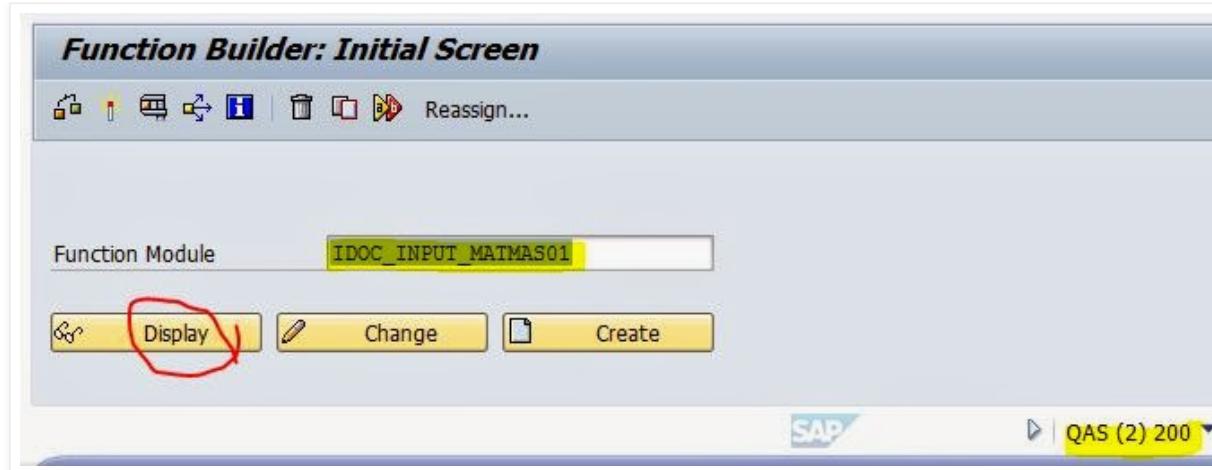
Name:

Data was saved

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 * //br zu 3.0f :
41 *   - ab sofort sind mehrere Kundensegmente pro Segment möglich
42 *   - der Exit EXIT_SAPLMV02_002 hat eine Exception bekommen
43 * //br zu 3.1g :
44 *   - bisher konnten Kundeneigene Felder nicht zurückgesetzt werden
45 *   -> neuer Parameter Tabelle RES_FIELDS am Exit EXIT_SAPLMV02_002
46 *   -> vor Aufruf des Exits wird SY-SUBRC = 0 gesetzt
47 *
```

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

**Function Builder: Display IDOC\_INPUT\_MATMAS01**

```

730      PERFORM CHECK_USER_EXIT TABLES T_EDIDD      " zu 3.iH
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 '002'
737              EXPORTING
738                  MESSAGE_TYPE      = IDOC CONTRL-MESTYP
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.

```

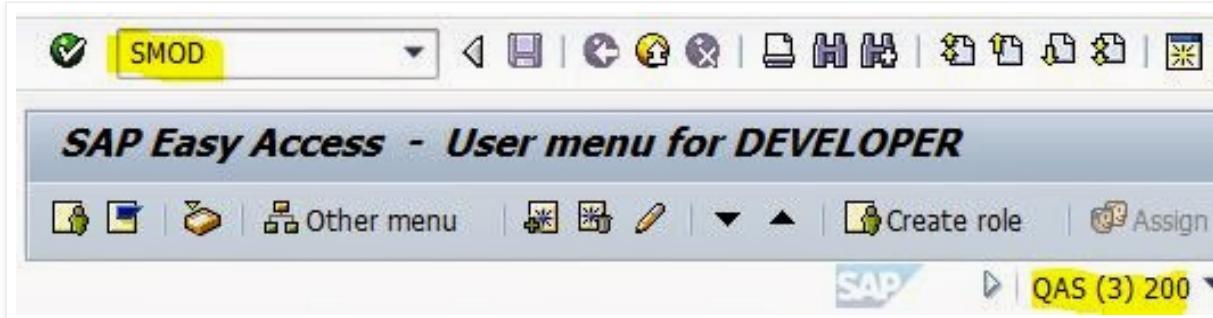
Step69. From the Attributes tab get the package name.

**Function Builder: Display IDOC\_INPUT\_MATMAS01**

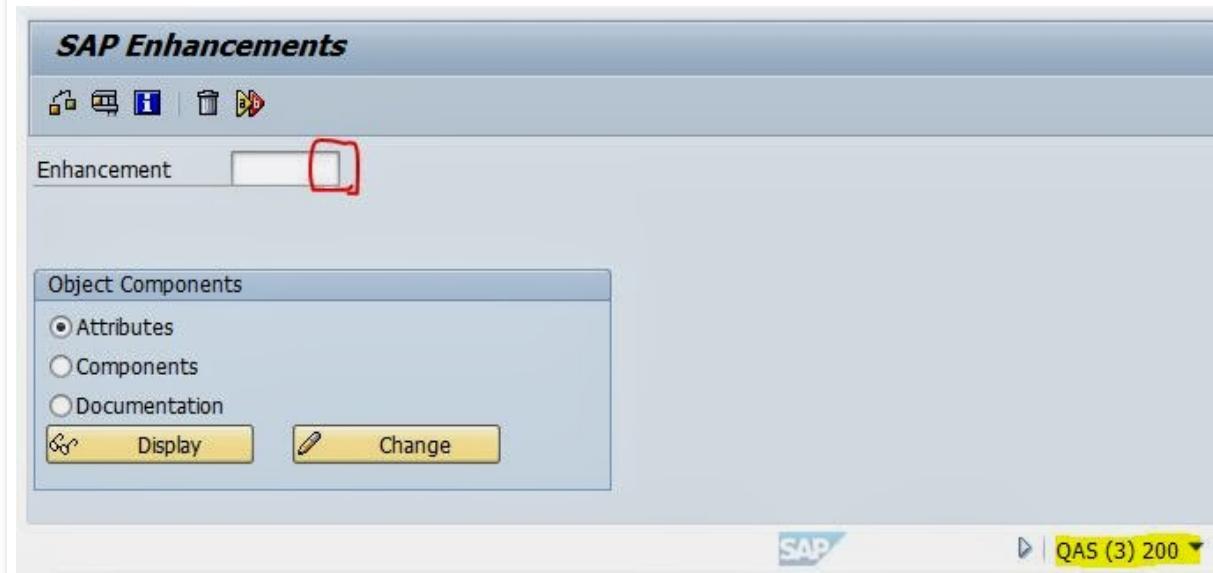
Classification	General Data
Function Group MV02 IDoc input material master	Person Responsible SAP
Short Text Einbuchen Materialstamm IDOC	Last Changed By SAP
Processing Type	Changed on 07.04.2012
<input type="radio"/> Normal Function Module <input checked="" type="radio"/> Remote-Enabled Module <input type="radio"/> Update Module <input type="radio"/> Start immed. <input type="radio"/> Immediate Start, No Restart <input type="radio"/> Start Delayed <input type="radio"/> Coll.run	<input type="checkbox"/> BasXML supported
	Package <b>MGV</b>
	Program Name SAPLMV02
	INCLUDE Name LMV02U03
	Original Language DE

SAP | QAS (2) 200

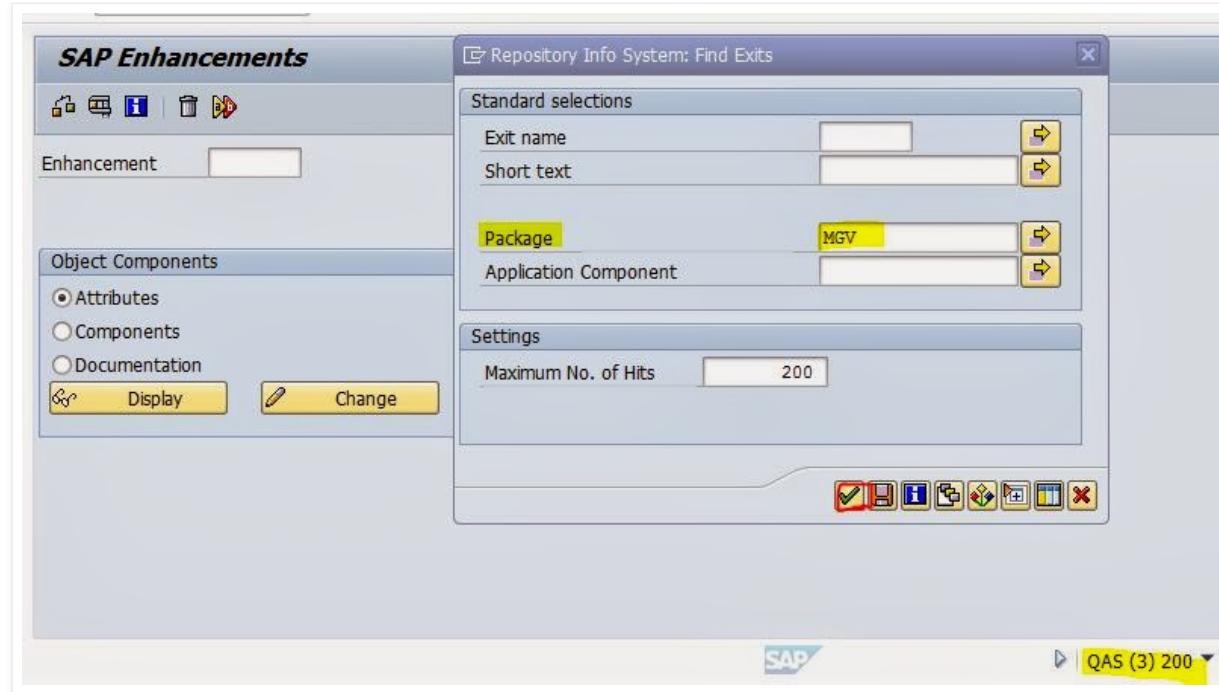
Step70. Go to SMOD transaction in the receiver system .



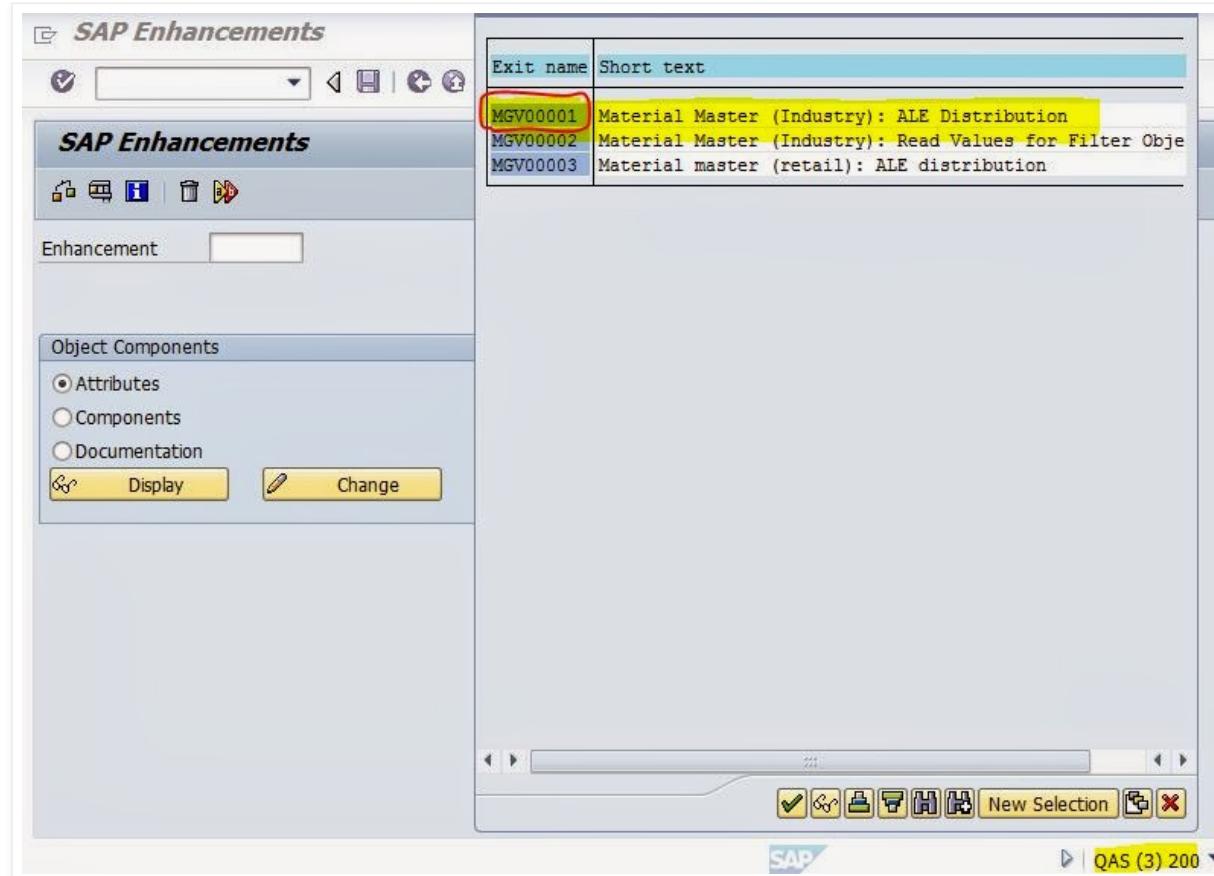
Step71. Click on F4 button.



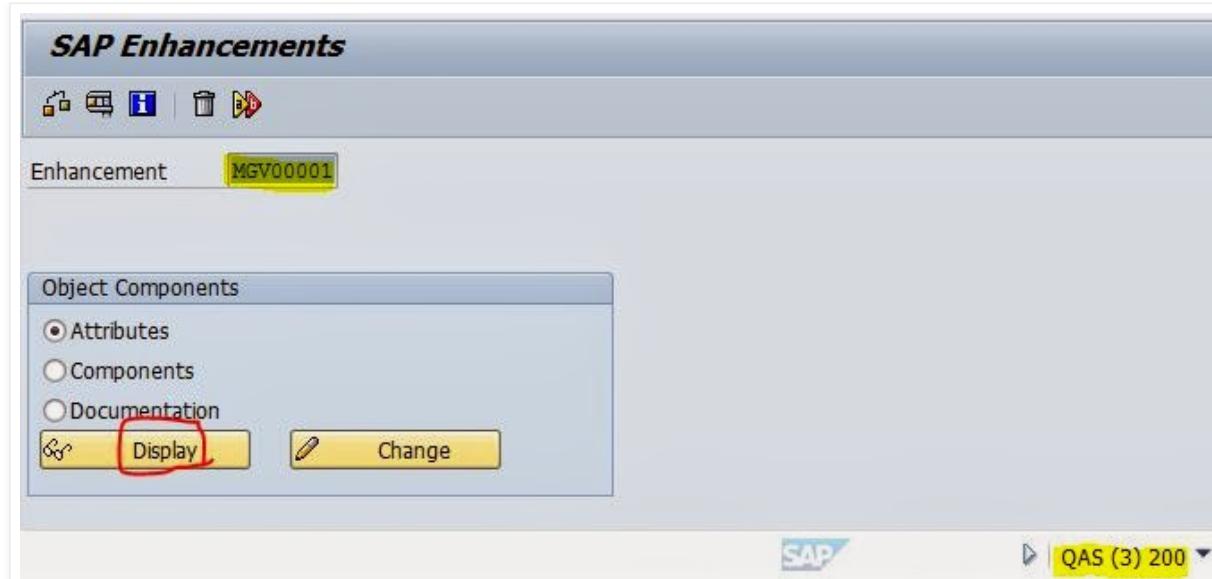
Step72. Provide the package Name and click on continue button



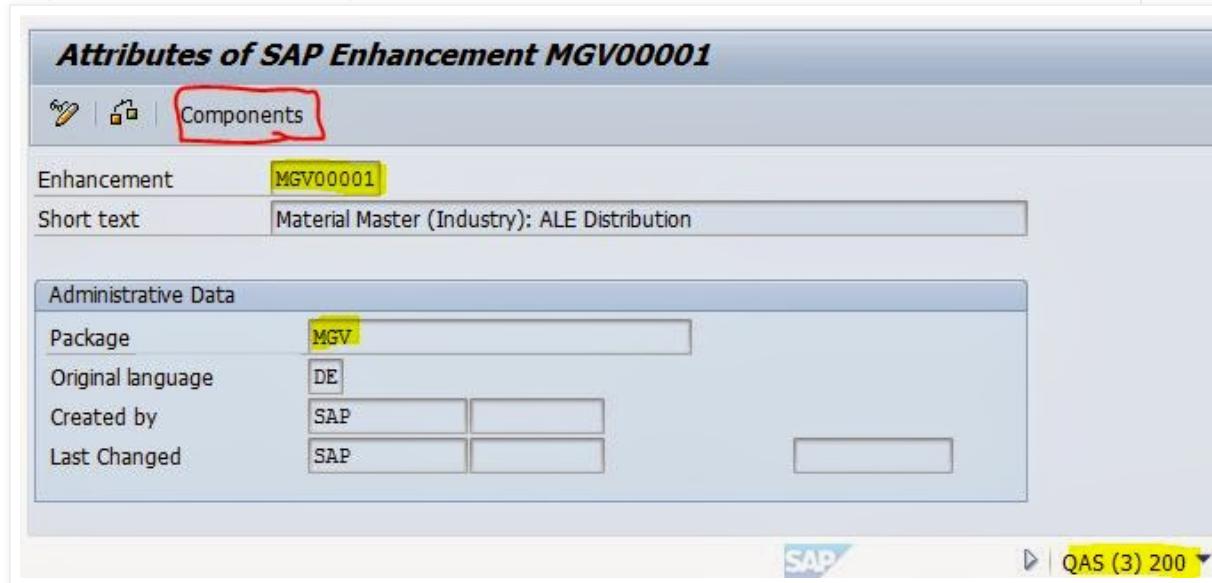
Step73. The enhancement 'MGV00001' is available. Select the first one.



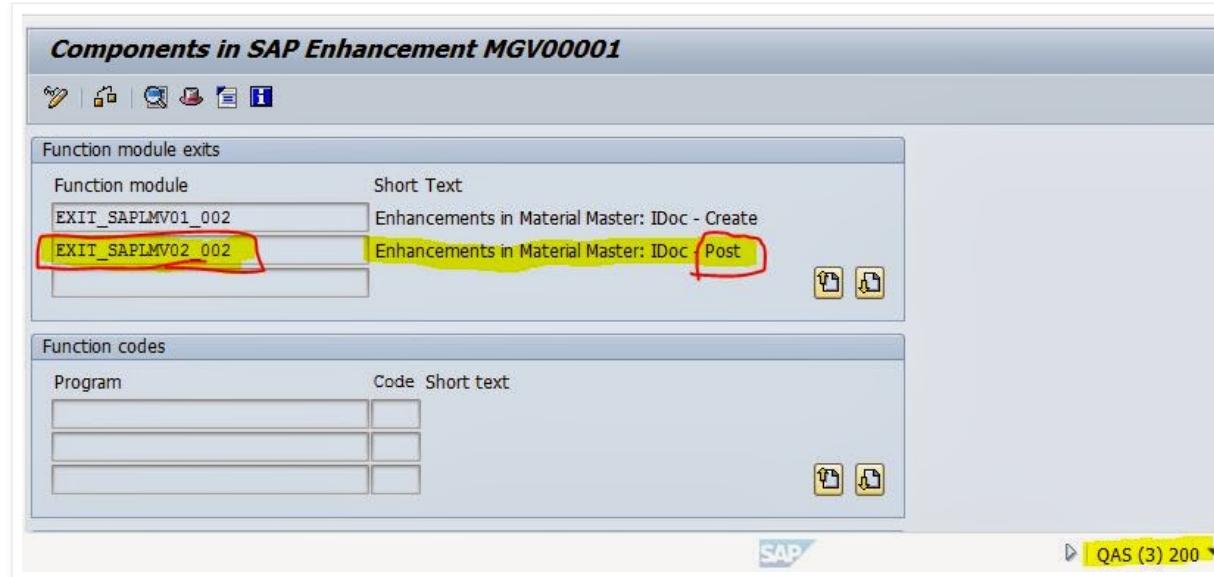
Step74. Click on the Display Button.



Step75. Now Click on the Components .



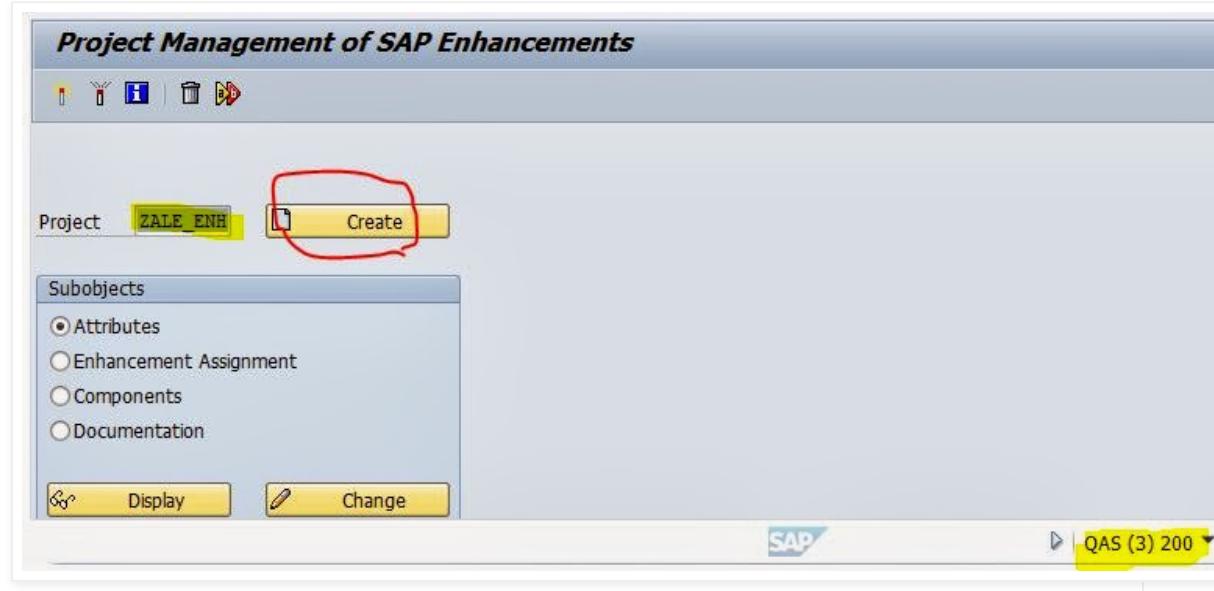
Step76. The FM 'EXIT\_SAPLMV02\_002' is available to Post the IDoc with additional information.



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



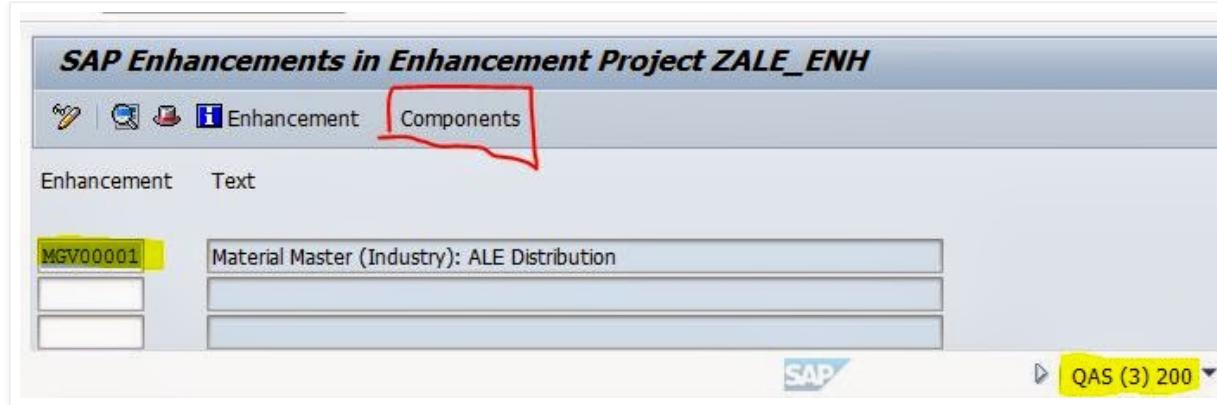
Step78. Provide a project Name and click on Create Button.



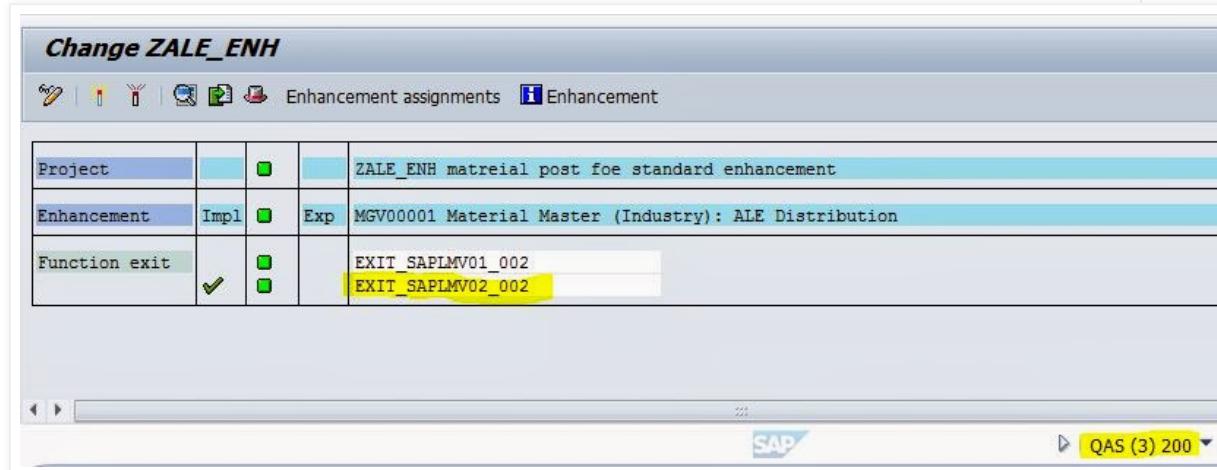
Step79. Provide the description and click on Enhc. Assignment button.



Step80. Provide the Enhancement Name and click on Components button



Step81. Now double click on Fm 'EXIT\_SAPLMV02\_002' to implement it.



Step82. Double click on the Include to implement it.

**Function Builder: Display EXIT\_SAPLMV02\_002**

```
46
47 INCLUDE ZXMGVU04.
48
49
50 ENDFUNCTION.
51
```

SAP QAS (3) 200

Step83. Provide the below code and activate the project.

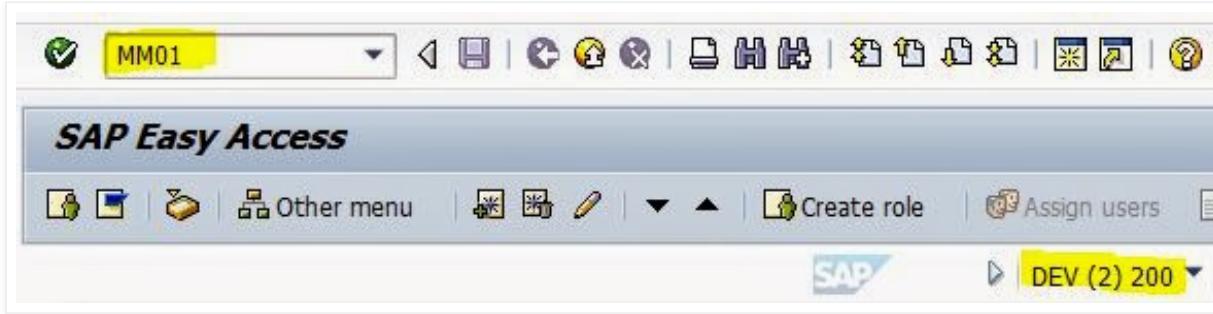
**ABAP Editor: Display Include ZXMGVU04**

```
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.
```

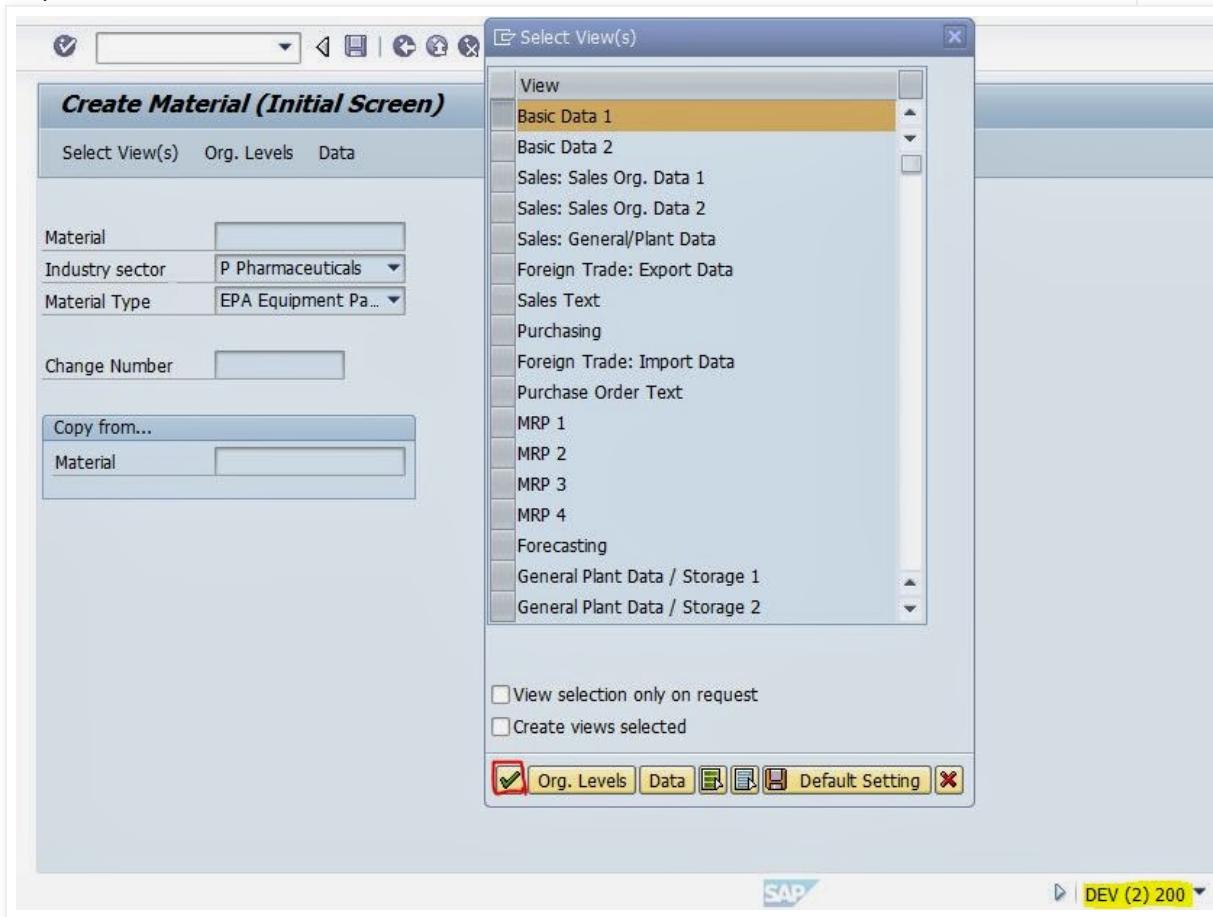
ABAP | Ln 1

SAP QAS (3) 200

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.

**Create Material (Initial Screen)**

Select View(s) Org. Levels Data

Material

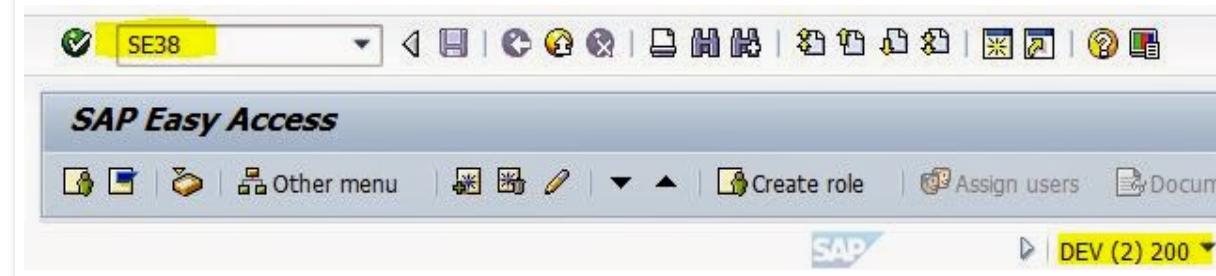
Industry sector P Pharmaceuticals

Material Type EPA Equipment Pa...

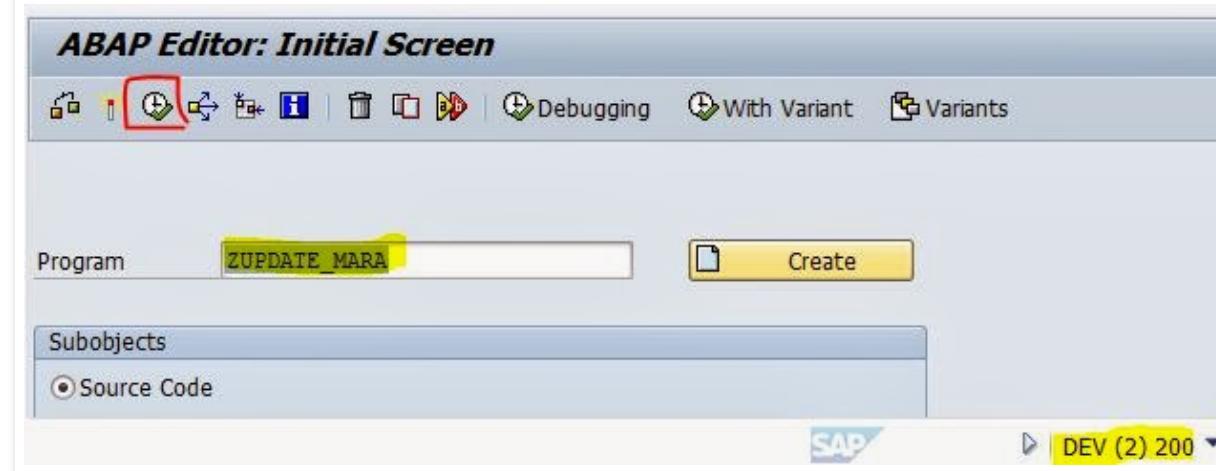
Change Number

Material 4150 created SAP DEV (2) 200

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.



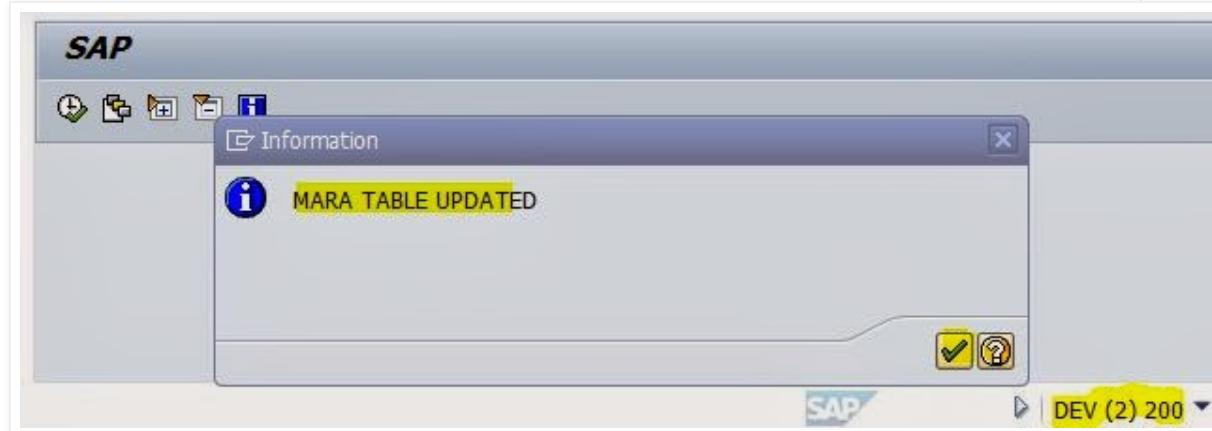
Step89. Provide the previously created Material Name and provide the Additional Information and execute it.

**UPDATING MARA TABLE**

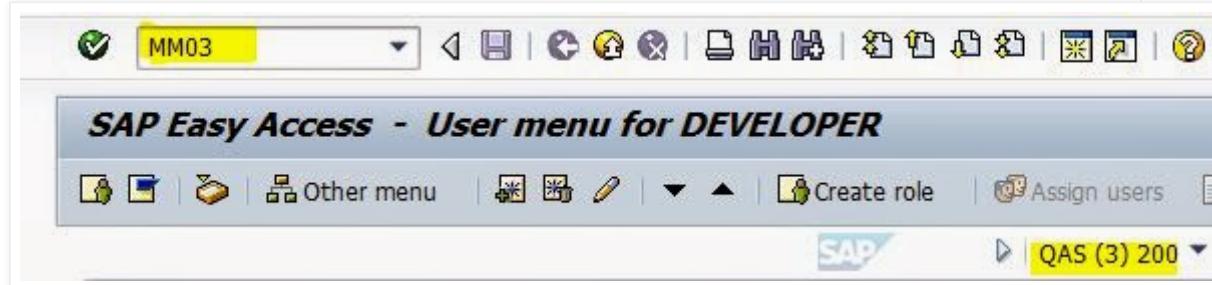
P_MATNR	4150
P_RATNG	2
P_HAZAD	b
<input checked="" type="checkbox"/> CH	

SAP DEV (2) 200

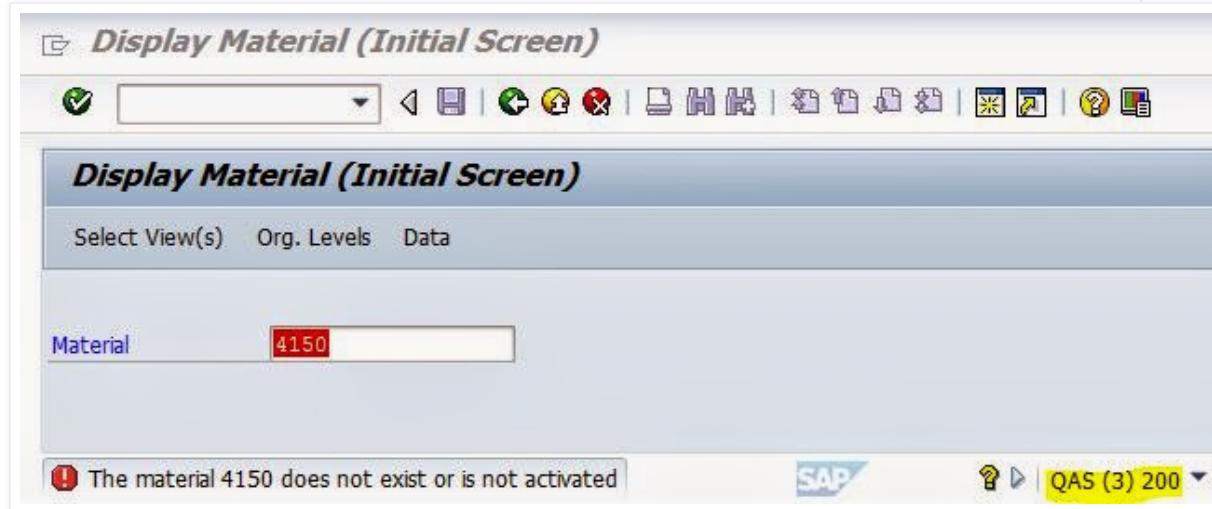
Step90. The material '4150' is updated with additional information in the Sender System.



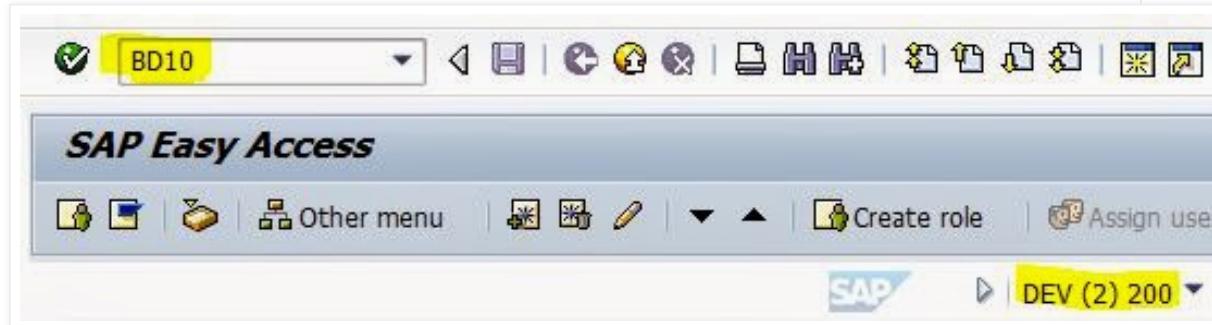
Step91. Go to Tcode- MM03 in the receiver system to check in the material is available or not.



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.

**Send Material**

Material 4150 to

Class

Message Type (Standard) MATMAS

Logical system CNT\_QAS200

Send material in full

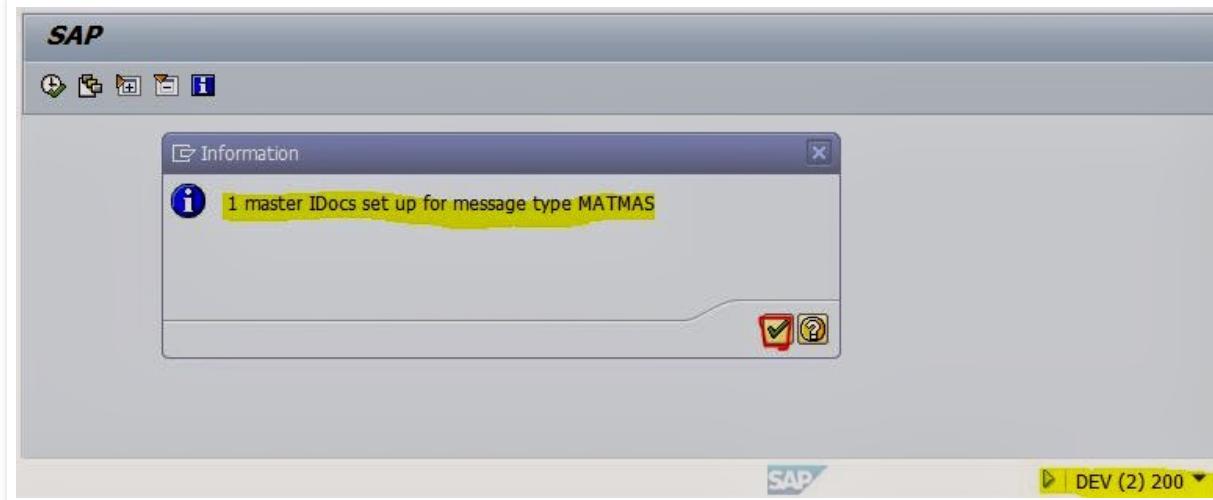
Parallel processing

Server group

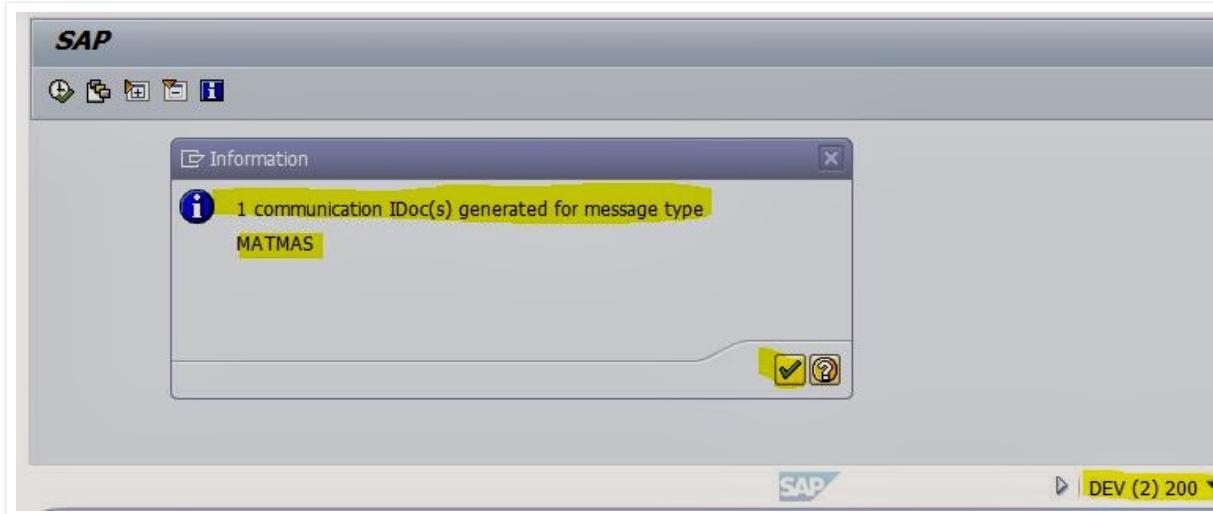
Number of materials per proces 20

SAP DEV (2) 200

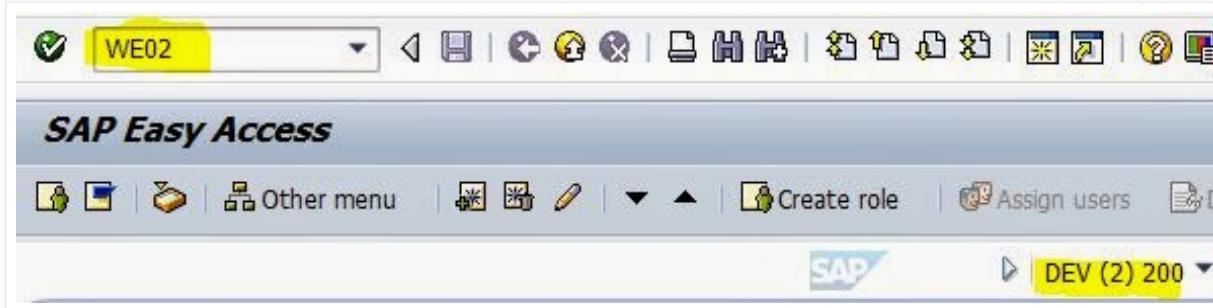
Step95. One master Idoc is generated.



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.

**IDoc List**

Default Additional EDI

Created At	00:00:00	to	23:59:59	
Created On	16.11.2013	to	16.11.2013	
Last Changed at	13:00:00	to	23:59:59	
Last Changed on		to		
Direction	<input type="checkbox"/>			
IDoc Number		to		
Current Status	<input type="checkbox"/>	to	<input type="checkbox"/>	
Basic Type	MATMAS05	to		
Enhancement	MATMAS05_EXT01	to		
Logical Message	MATMAS	to		
Message Variant	<input type="checkbox"/>	to	<input type="checkbox"/>	
Message Function	<input type="checkbox"/>	to	<input type="checkbox"/>	

SAP DEV (2) 200

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

**IDoc Display: 0000000000204023**

IDoc display	
IDoc 0000000000204023	
Control Rec.	
Data records	Total number: 000004
E1MARAM	Segment 000001
ZMARA_EXT	Segment 000002
E1MARA1	Segment 000003
E1MAKTM	Segment 000004
Status records	
03	Data passed to port OK
30	IDoc ready for dispatch (ALE service)
01	IDoc generated

**Technical short info**

Direction	1	Outbox
Current status	03	OO
Basic type	MATMAS05	
Extension	MATMAS05_EXT01	
Message type	MATMAS	
Partner No.	CNT_QAS200	
Partn.Type	LS	
Port	A000000038	

**Content of selected segment**

Fld name	Fld cont.
MSGFN	005
MATNR	00000000000004150
ERSDA	20131116
ERNAM	DEVELOPER
LAEDA	00000000
PSTAT	K
MTART	FPI

SAP DEV (2) 200

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

**IDoc Display: 0000000000204023**

IDoc display	
IDoc 0000000000204023	
Control Rec.	
Data records	Total number: 00004
E1MARAM	Segment 00001
ZMARA_EXT	Segment 00002
E1MARA1	Segment 00003
E1MAKTM	Segment 00004
Status records	
03	Data passed to port OK
30	IDoc ready for dispatch (ALE service)
01	IDoc generated

**Technical short info**

Direction	1	Outbox
Current status	03	OK
Basic type	MATMAS05	
Extension	MATMAS05_EXT01	
Message type	MATMAS	
Partner No.	CNT_QAS200	
Partn.Type	LS	
Port	A000000038	

**Content of selected segment**

Fld name	Fld cont.
ZZRATING	2
ZZHAZARDOUS	B

SAP DEV (2) 200

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

WE02

**SAP Easy Access - User menu for DEVELOPER**

Other menu Create role Assign users Document

SAP QAS (3) 200

Step102. Provide the details and click on execute button.

**IDoc List**

The screenshot shows the SAP IDoc List interface. At the top, there are three tabs: Default (selected), Additional, and EDI. Below the tabs, there are several search fields with placeholder text and yellow highlighted input fields:

- Created At: 00:00:00 to 23:59:59
- Created On: 16.11.2013 to 16.11.2013
- Last Changed at: 13:00:00 to 23:59:59
- Last Changed on: [empty] to [empty]
- Direction: [empty]
- IDoc Number: [empty] to [empty]
- Current Status: [empty] to [empty]
- Basic Type: MATMAS05 to [empty]
- Enhancement: MATMAS05\_EXT01 to [empty]
- Logical Message: MATMAS to [empty]

At the bottom right, there is a status bar showing "SAP" and "QAS (3) 200".

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

**IDoc Display: 0000000000200023**

The screenshot shows the SAP IDoc Display interface. On the left, a tree view displays the IDoc structure:

- IDoc 0000000000200023
  - Control Rec.
  - Data records
    - E1MARAM Segment 00001
      - ZMARA\_EXT Segment 00002
      - E1MARA1 Segment 00003
      - E1MAKTM Segment 00004
  - 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 OOB
Basic type	MATMAS05
Extension	MATMAS05_EXT01
Message type	MATMAS
Partner No.	CNT_DEV200
Partn.Type	LS
Port	SAPDEV

Content of selected segment

Fld name	Fld cont.
MSGFN	005
MATNR	0000000000004150
ERSDA	20131116
ERNAM	DEVELOPER
LAEDA	0000000
PSTAT	K

QAS (3) 200

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

The screenshot shows the SAP IDoc Display interface. The title bar says "IDoc Display: 0000000000200023". The left pane is a tree view of the IDoc structure:

- IDoc 0000000000200023
  - Control Rec.
  - Data records
    - EIMARAM
      - ZMARA\_EXT
      - EIMARA1
      - EIMAKTM
    - Segment 00001
    - Segment 00002
    - Segment 00003
    - Segment 00004
  - Status records
    - 53 Application document posted
    - 62 IDoc passed to application
    - 64 IDoc ready to be transferred to application
    - 50 IDoc added

The right pane displays "Technical short info" for the selected segment:

Direction	2	Inbox
Current status	53	OO
Basic type	MATMAS05	
Extension	MATMAS05_EXT01	
Message type	MATMAS	
Partner No.	CNT_DEV200	
Partn.Type	LS	
Port	SAPDEV	

Below this is a section titled "Content of selected segment" with a table:

Fld name	Fld cont.
ZZRATING	2
ZZHAZARDOUS	B

SAP and QAS (3) 200 icons are at the bottom.

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

The screenshot shows the SAP Easy Access interface. The top bar has a checked checkbox and the text "MM03". The menu bar includes "File", "Edit", "View", "Insert", "Format", "Tools", "Help", and "SAP Help". Below the menu is a toolbar with various icons. The main title is "SAP Easy Access - User menu for DEVELOPER". The sub-menu bar includes "Other menu", "Create role", "Assign users", and "Docum". SAP and QAS (3) 200 icons are at the bottom.

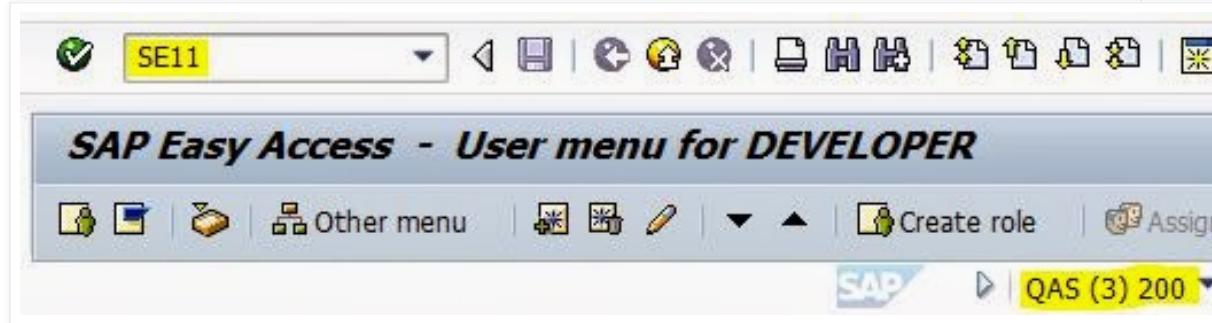
Step106. provide teh material number 4150 and hit enter button.

The screenshot shows the "Display Material (Initial Screen)". The title bar says "Display Material (Initial Screen)". The main area has buttons for "Select View(s)", "Org. Levels", and "Data". Below is a "Material" field containing "4150". SAP and QAS (3) 200 icons are at the bottom.

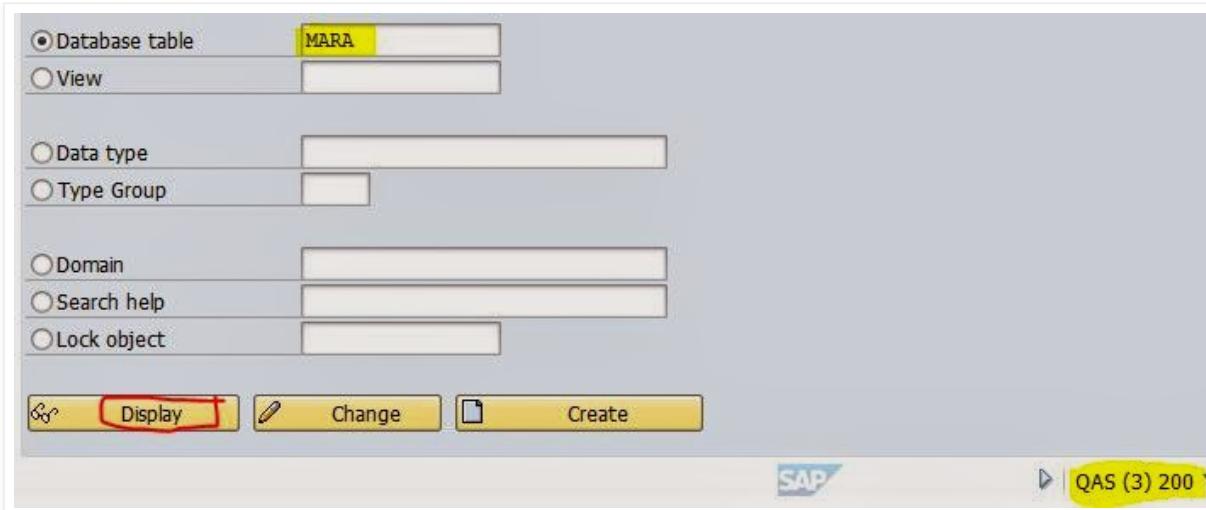
Step107. The material is created in the receiver system..



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



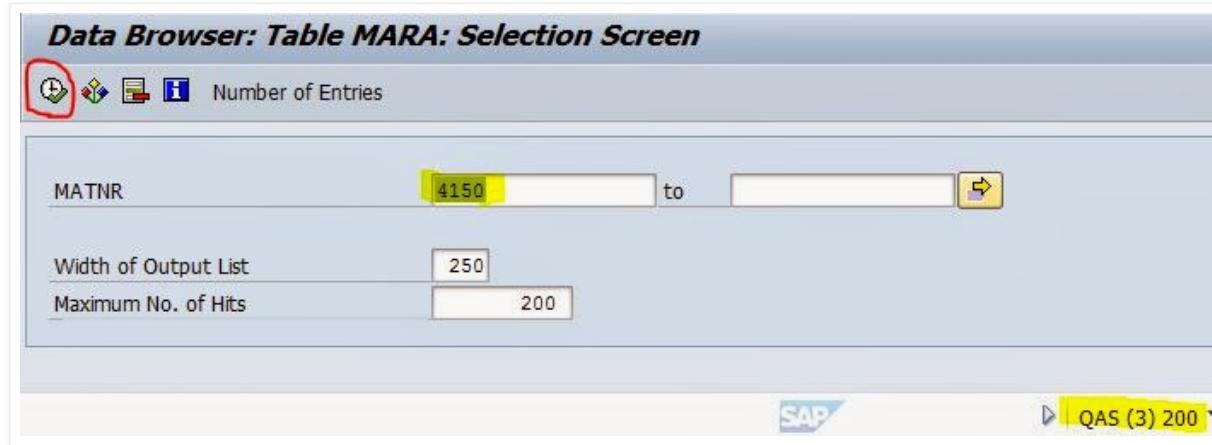
Step109. Provide the table name and click on Display button.



Step110. Click on the Show Contents Button.

Dictionary: Display Table																																						
<a href="#">Transp. Table</a>		MARA		Active		<a href="#">Technical Settings</a>																																
Short Description		General Material Data																																				
<a href="#">Attributes</a> <a href="#">Delivery and Maintenance</a> <a href="#">Fields</a> <a href="#">Entry help/check</a> <a href="#">Currency/Quantity Fields</a>																																						
<a href="#"></a> <a href="#">Srch Help</a> <a href="#">Predefined Type</a>																																						
<table border="1"><thead><tr><th>Field</th><th>Key</th><th>Ini...</th><th>Data element</th><th>Data Type</th><th>Length</th><th>Deci...</th><th>Short Description</th></tr></thead><tbody><tr><td>MANDT</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>MANDT</td><td>CLNT</td><td>3</td><td>0</td><td>Client</td></tr><tr><td>MATNR</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>MATNR</td><td>CHAD</td><td>10</td><td>0</td><td>Material Number</td></tr></tbody></table>															Field	Key	Ini...	Data element	Data Type	Length	Deci...	Short Description	MANDT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MANDT	CLNT	3	0	Client	MATNR	<input type="checkbox"/>	<input type="checkbox"/>	MATNR	CHAD	10	0	Material Number
Field	Key	Ini...	Data element	Data Type	Length	Deci...	Short Description																															
MANDT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MANDT	CLNT	3	0	Client																															
MATNR	<input type="checkbox"/>	<input type="checkbox"/>	MATNR	CHAD	10	0	Material Number																															

Step111. Provide the material number 4150 and Execute it.



Step112. The additional fields values are available in the table.

Data Browser: Table MARA Select Entries 1				
Check Table...				
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