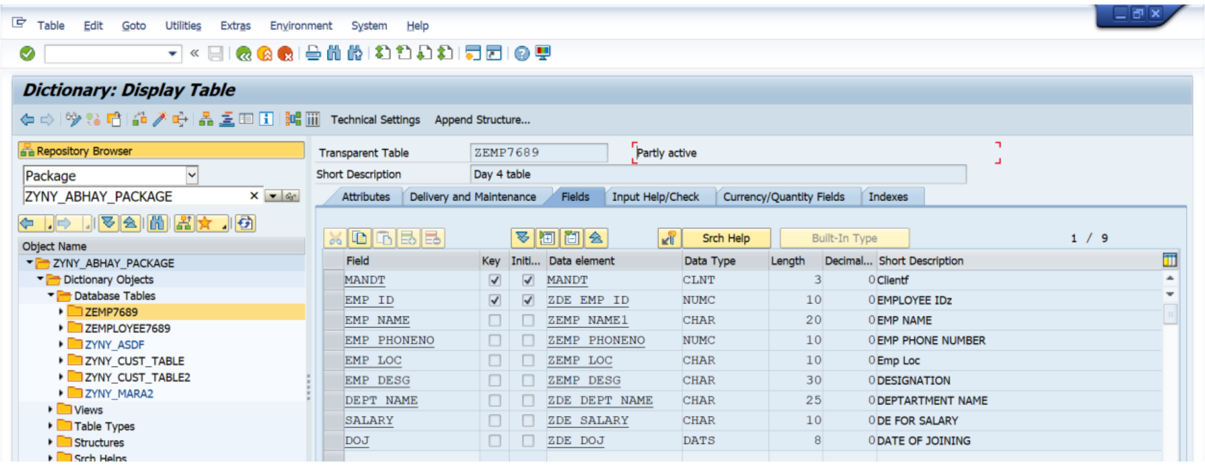
LIT TRAINING

Batch Name - SAP ABAP - 25 **DAY 8 ASSIGNMENT**
EMPLOYEE ID – 46247689

1. Create a custom Idoc whose fields refers to a custom table.

Create a Custom Segment, Idoc type, & Message Type in IDOC.(Tools Used we31,we30).

CUSTOM TABLE :



Dictionary: Display Table

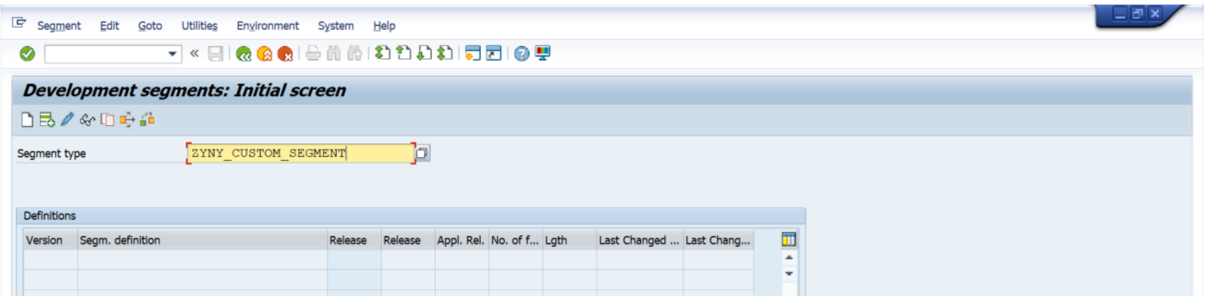
Package
ZYNY_ABHAY_PACKAGE

Object Name
- ZYNY_ABHAY_PACKAGE
  - Dictionary Objects
    - Database Tables
      - ZEMP7689
      - ZEMPLOYEE7689
      - ZYNY_ASDF
      - ZYNY_CUST_TABLE
      - ZYNY_CUST_TABLE2
      - ZYNY_MARA2
    - Views
    - Table Types
    - Structures
    - Srch Helps

Transparent Table: ZEMP7689 Partly active
Short Description: Day 4 table

Field	Key	Initi...	Data element	Data Type	Length	Decimal...	Short Description
MANDT	☑	☑	MANDT	CLNT	3	0	Clientf
EMP_ID	☑	☑	ZDE_EMP_ID	NUMC	10	0	EMPLOYEE IDz
EMP_NAME	□	□	ZEMP_NAME1	CHAR	20	0	EMP NAME
EMP_PHONENO	□	□	ZEMP_PHONENO	NUMC	10	0	EMP PHONE NUMBER
EMP_LOC	□	□	ZEMP_LOC	CHAR	10	0	Emp Loc
EMP_DESG	□	□	ZEMP_DESG	CHAR	30	0	DESIGNATION
DEPT_NAME	□	□	ZDE_DEPT_NAME	CHAR	25	0	DEPTARTMENT NAME
SALARY	□	□	ZDE_SALARY	CHAR	10	0	DE FOR SALARY
DOJ	□	□	ZDE_DOJ	DATS	8	0	DATE OF JOINING

Creation of IDOC Segment (WE31):

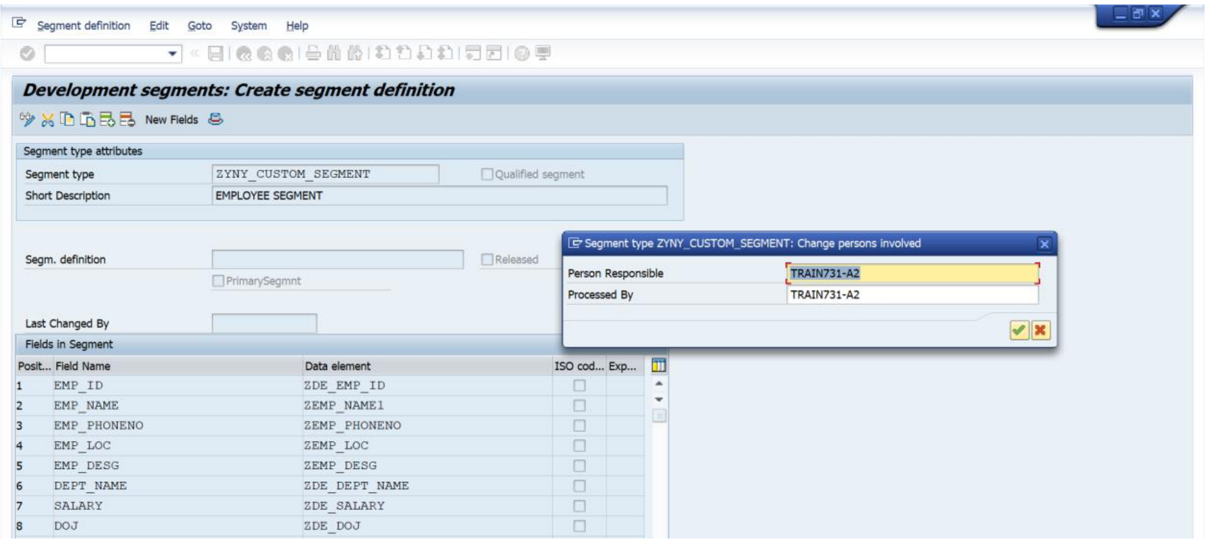


Development segments: Initial screen

Segment type: ZYNY_CUSTOM_SEGMENT

Version	Segm. definition	Release	Release	Appl. Rel.	No. of f...	Lgth	Last Changed ...	Last Chang...

Enter the names of variables and the data elements



Development segments: Create segment definition

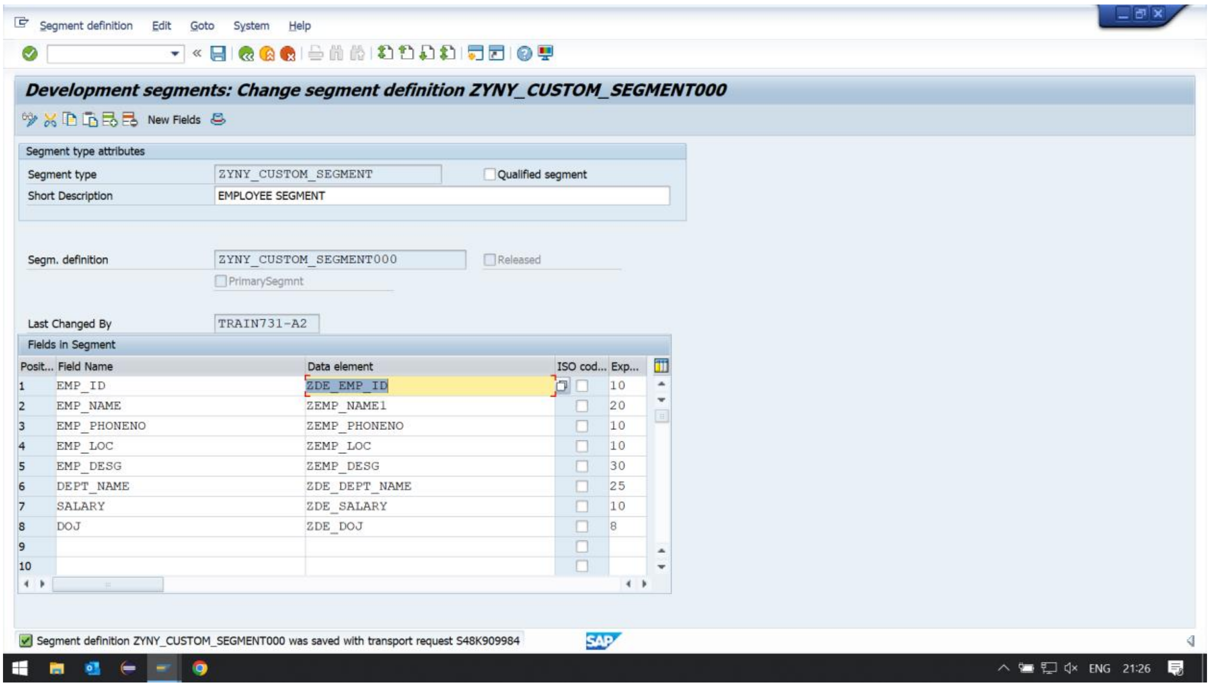
Segment type: ZYNY_CUSTOM_SEGMENT □Qualified segment
Short Description: EMPLOYEE SEGMENT

Segm. definition: □Released
□PrimarySegmnt

Last Changed By:

Segment type ZYNY_CUSTOM_SEGMENT: Change persons involved
Person Responsible: TRAIN731-A2
Processed By: TRAIN731-A2

Posit...	Field Name	Data element	ISO cod...	Exp...
1	EMP_ID	ZDE_EMP_ID	□	
2	EMP_NAME	ZEMP_NAME1	□	
3	EMP_PHONENO	ZEMP_PHONENO	□	
4	EMP_LOC	ZEMP_LOC	□	
5	EMP_DESG	ZEMP_DESG	□	
6	DEPT_NAME	ZDE_DEPT_NAME	□	
7	SALARY	ZDE_SALARY	□	
8	DOJ	ZDE_DOJ	□	



Development segments: Change segment definition ZYNY_CUSTOM_SEGMENT000

Segment type attributes

Segment type	ZYNY_CUSTOM_SEGMENT
Short Description	EMPLOYEE SEGMENT

□ Qualified segment

Segm. definition	ZYNY_CUSTOM_SEGMENT000

□ Released

□ PrimarySegmnt

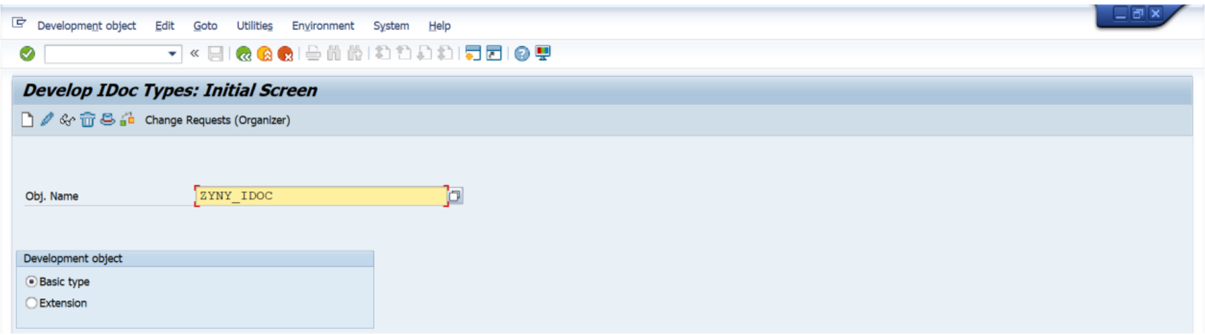
Last Changed By	TRAIN731-A2

Fields in Segment

Posit...	Field Name	Data element	ISO cod...	Exp...
1	EMP_ID	ZDE_EMP_ID	□	10
2	EMP_NAME	ZEMP_NAME1	□	20
3	EMP_PHONENO	ZEMP_PHONENO	□	10
4	EMP_LOC	ZEMP_LOC	□	10
5	EMP_DESG	ZEMP_DESG	□	30
6	DEPT_NAME	ZDE_DEPT_NAME	□	25
7	SALARY	ZDE_SALARY	□	10
8	DOJ	ZDE_DOJ	□	8
9			□	
10			□	

Segment definition ZYNY_CUSTOM_SEGMENT000 was saved with transport request S48K909984

Creation of IDoc Type (WE30):



Develop IDoc Types: Initial Screen

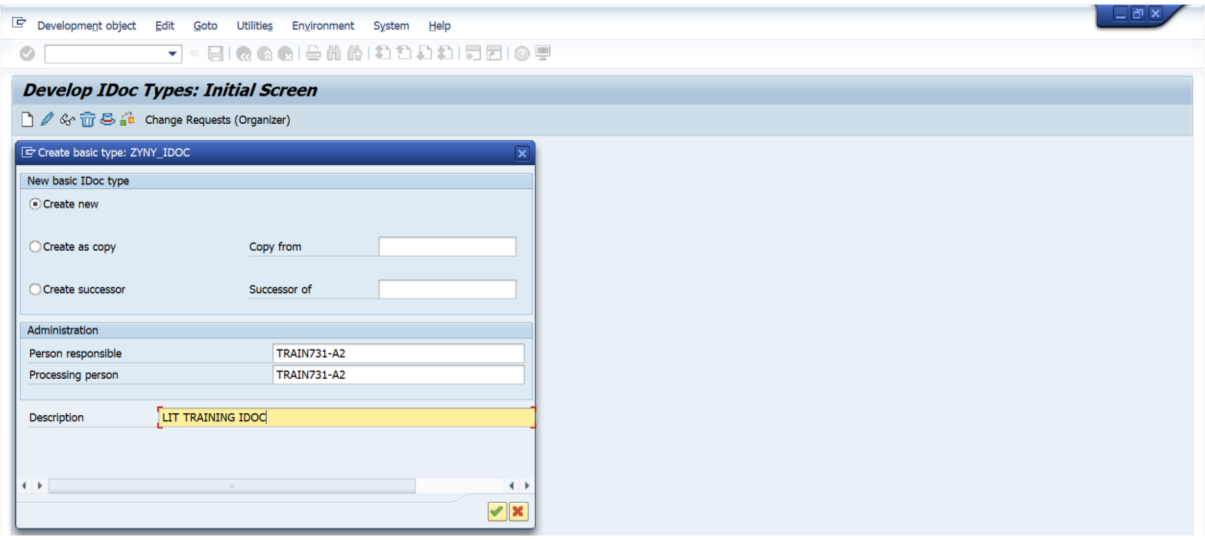
Obj. Name	ZYNY_IDOC

Development object

● Basic type

○ Extension

The system prompts you to enter a type of segment and its attributes.



Develop IDoc Types: Initial Screen

Create basic type: ZYNY_IDOC

New basic IDoc type

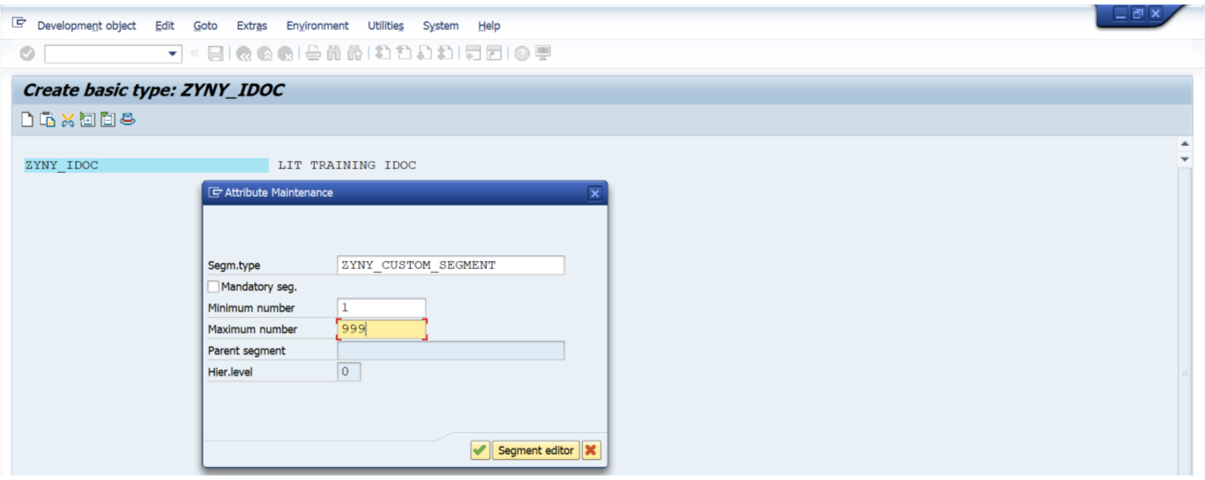
● Create new

○ Create as copy   Copy from

○ Create successor   Successor of

Administration

Person responsible	TRAIN731-A2
Processing person	TRAIN731-A2
Description	LIT TRAINING IDOC

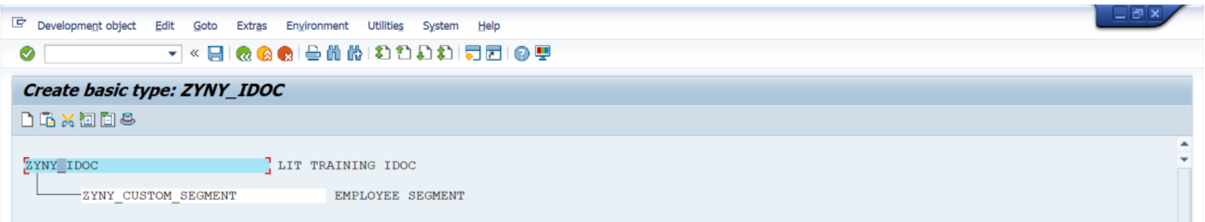


Create basic type: ZYNY_IDOC

ZYNY_IDOC LIT TRAINING IDOC

Attribute Maintenance

Segm.type	ZYNY_CUSTOM_SEGMENT
□ Mandatory seg.	
Minimum number	1
Maximum number	999
Parent segment	
Hier.level	0



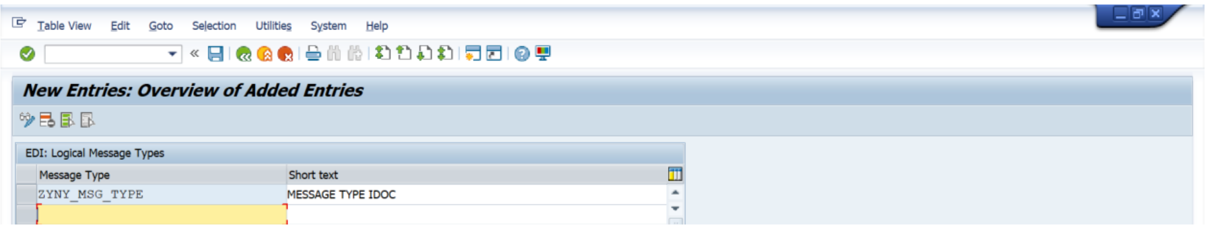
Create basic type: ZYNY_IDOC

ZYNY_IDOC LIT TRAINING IDOC

ZYNY_CUSTOM_SEGMENT EMPLOYEE SEGMENT

GO TO WE81

SWITCH TO CHANGE



New Entries: Overview of Added Entries

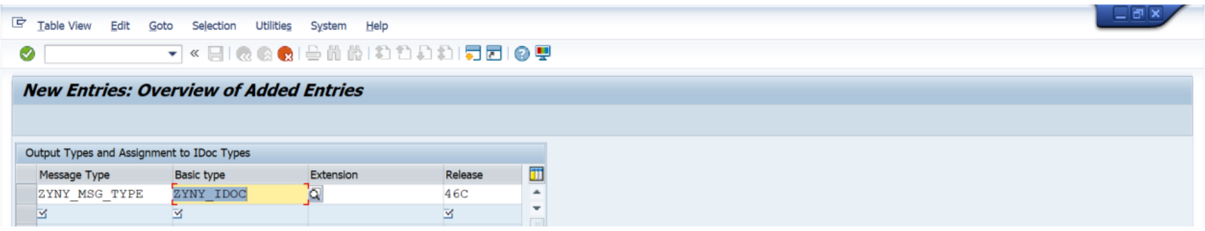
EDI: Logical Message Types

Message Type	Short text
ZYNY_MSG_TYPE	MESSAGE TYPE IDOC

Assign message type Idoc type in we82.

GO TO WE82

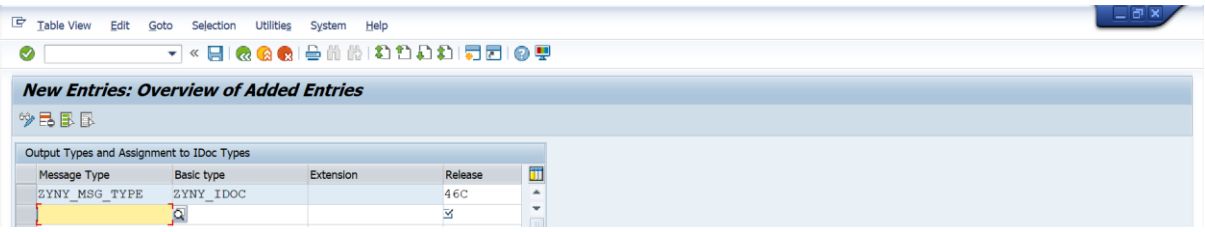
SWITCH TO CHANGE



New Entries: Overview of Added Entries

Output Types and Assignment to IDoc Types

Message Type	Basic type	Extension	Release
ZYNY_MSG_TYPE	ZYNY_IDOC		46C



New Entries: Overview of Added Entries

Output Types and Assignment to IDoc Types

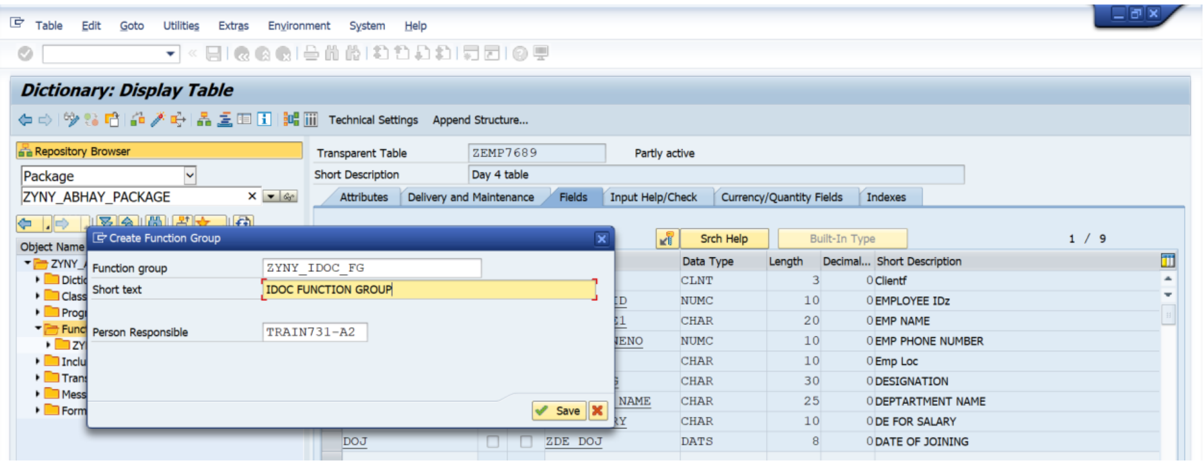
Message Type	Basic type	Extension	Release
ZYNY_MSG_TYPE	ZYNY_IDOC		46C

2. Create an inbound function module to update the data in a custom table.

Below input output fields needed:

```
*"*"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-UPDATETASK
*"     REFERENCE(CALL_TRANSACTION_DONE) LIKE  BDWFAP_PAR-CALLTRANS
*"  TABLES
*"      IDOC_CONTRL STRUCTURE  EDIDC
*"      IDOC_DATA STRUCTURE  EDIDD
*"      IDOC_STATUS STRUCTURE  BDIDOCSTAT
*"      RETURN_VARIABLES STRUCTURE  BDWFRETVAR
*"      SERIALIZATION_INFO STRUCTURE  BDI_SER
*"  EXCEPTIONS
*"      WRONG_FUNCTION_CALLED
```

STEP 1: FUNCTION GROUP CREATION (SE80).



Dictionary: Display Table

Package: ZYNY_ABHAY_PACKAGE

Transparent Table: ZEMP7689 Partly active

Short Description: Day 4 table

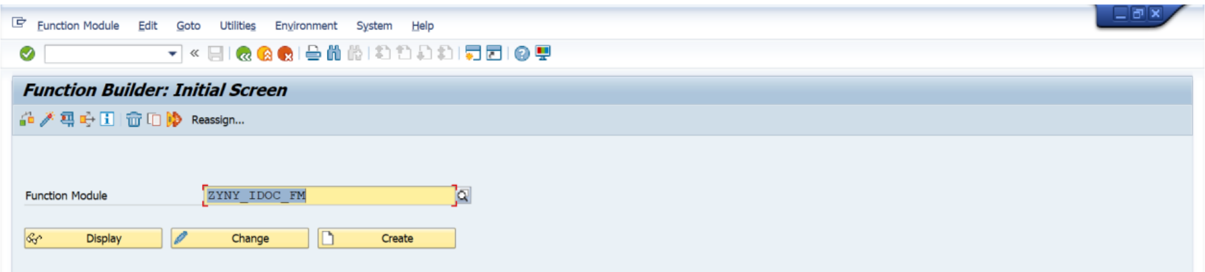
Create Function Group

Function group	ZYNY_IDOC_FG
Short text	IDOC FUNCTION GROUP
Person Responsible	TRAIN731-A2

1 / 9

		Data Type	Length	Decimal...	Short Description
		CLNT	3	0	Clientf
		NUMC	10	0	EMPLOYEE IDz
		CHAR	20	0	EMP NAME
		NUMC	10	0	EMP PHONE NUMBER
		CHAR	10	0	Emp Loc
		CHAR	30	0	DESIGNATION
		CHAR	25	0	DEPTARTMENT NAME
		CHAR	10	0	DE FOR SALARY
DOJ	ZDE_DOJ	DATS	8	0	DATE OF JOINING

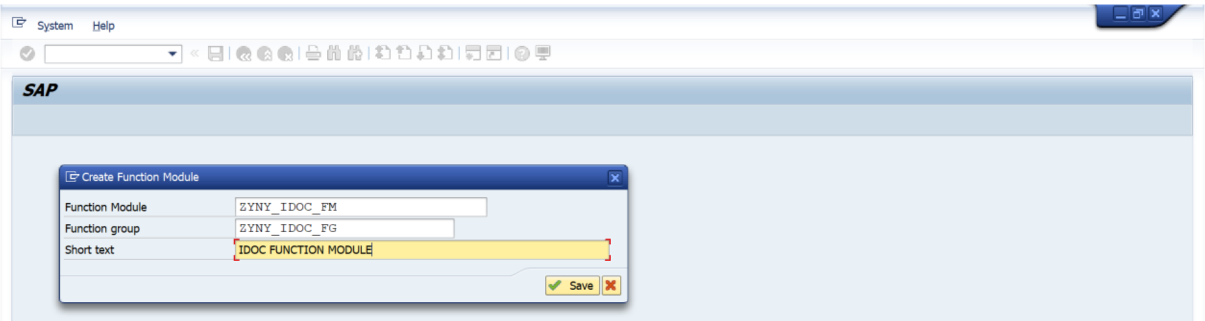
FUNCTION MODULE(SE37):



Function Builder: Initial Screen

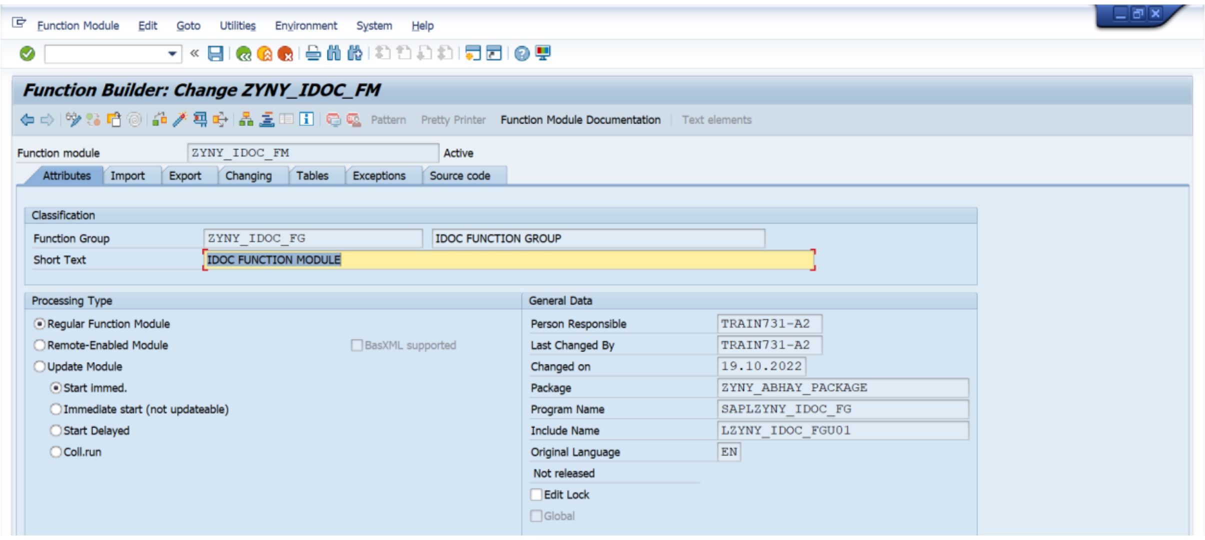
Function Module: ZYNY_IDOC_FM

Function module import, export and table parameters:



Create Function Module

Function Module	ZYNY_IDOC_FM
Function group	ZYNY_IDOC_FG
Short text	IDOC FUNCTION MODULE



Function Builder: Change ZYNY_IDOC_FM

Function module: ZYNY_IDOC_FM Active

Classification

Function Group	ZYNY_IDOC_FG	IDOC FUNCTION GROUP
Short Text	IDOC FUNCTION MODULE	

Processing Type

- ● Regular Function Module
- ○ Remote-Enabled Module □ BasXML supported
- ○ Update Module
  - ● Start immed.
  - ○ Immediate start (not updateable)
  - ○ Start Delayed
  - ○ Coll.run

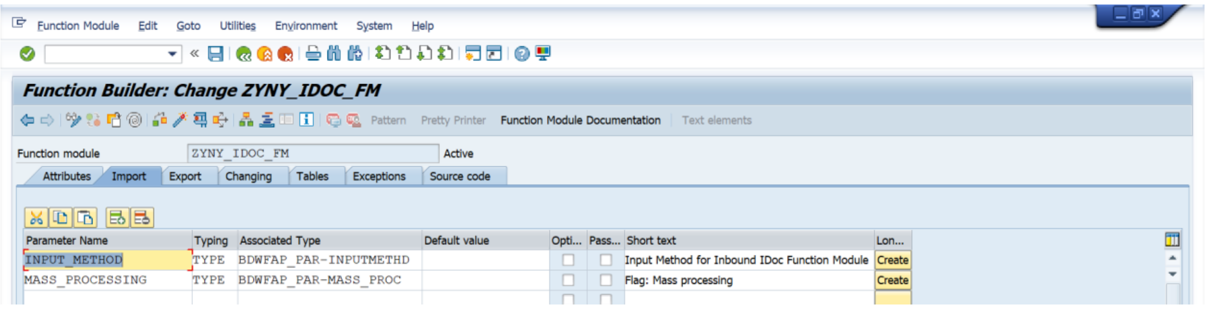
General Data

Person Responsible	TRAIN731-A2
Last Changed By	TRAIN731-A2
Changed on	19.10.2022
Package	ZYNY_ABHAY_PACKAGE
Program Name	SAPLZYNY_IDOC_FG
Include Name	LZYNY_IDOC_FGU01
Original Language	EN

Not released

□ Edit Lock

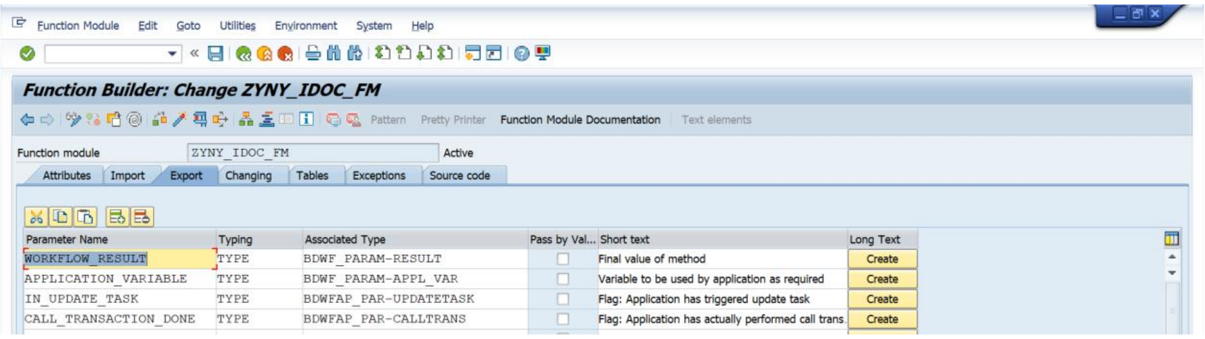
□ Global



Function Builder: Change ZYNY_IDOC_FM

Function module: ZYNY_IDOC_FM Active

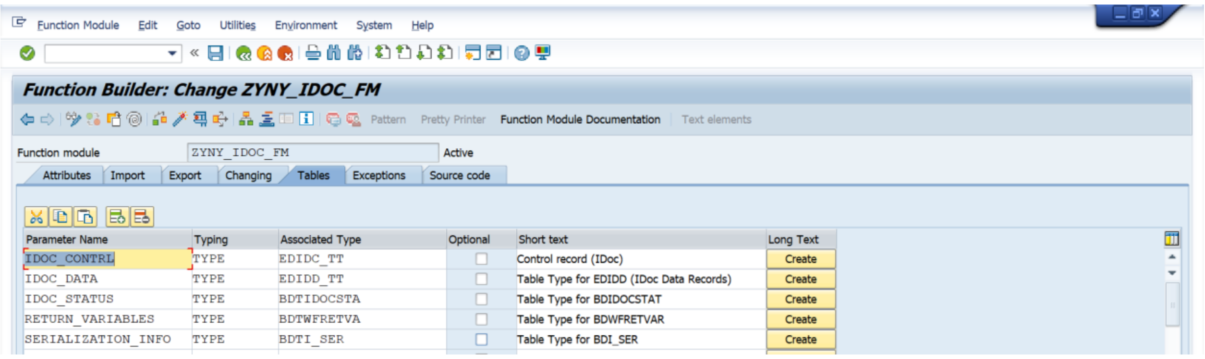
Parameter Name	Typing	Associated Type	Default value	Opti...	Pass...	Short text	Lon...
INPUT_METHOD	TYPE	BDWFAP_PAR-INPUTMETHD		□	□	Input Method for Inbound IDoc Function Module	Create
MASS_PROCESSING	TYPE	BDWFAP_PAR-MASS_PROC		□	□	Flag: Mass processing	Create


Function Module Edit Goto Utilities Environment System Help
Pattern Pretty Printer Function Module Documentation Text elements
Attributes Import Export Changing Tables Exceptions Source code

Function Builder: Change ZYNY_IDOC_FM

Function module ZYNY_IDOC_FM Active

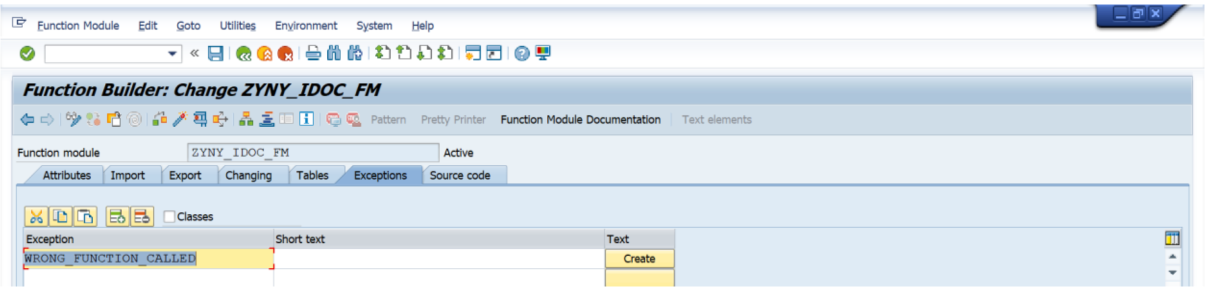
Parameter Name	Typing	Associated Type	Pass by Val...	Short text	Long Text
WORKFLOW_RESULT	TYPE	BDWF_PARAM-RESULT	□	Final value of method	Create
APPLICATION_VARIABLE	TYPE	BDWF_PARAM-APPL_VAR	□	Variable to be used by application as required	Create
IN_UPDATE_TASK	TYPE	BDWFAP_PAR-UPDATETASK	□	Flag: Application has triggered update task	Create
CALL_TRANSACTION_DONE	TYPE	BDWFAP_PAR-CALLTRANS	□	Flag: Application has actually performed call trans.	Create


Function Module Edit Goto Utilities Environment System Help
Pattern Pretty Printer Function Module Documentation Text elements
Attributes Import Export Changing Tables Exceptions Source code

Function Builder: Change ZYNY_IDOC_FM

Function module ZYNY_IDOC_FM Active

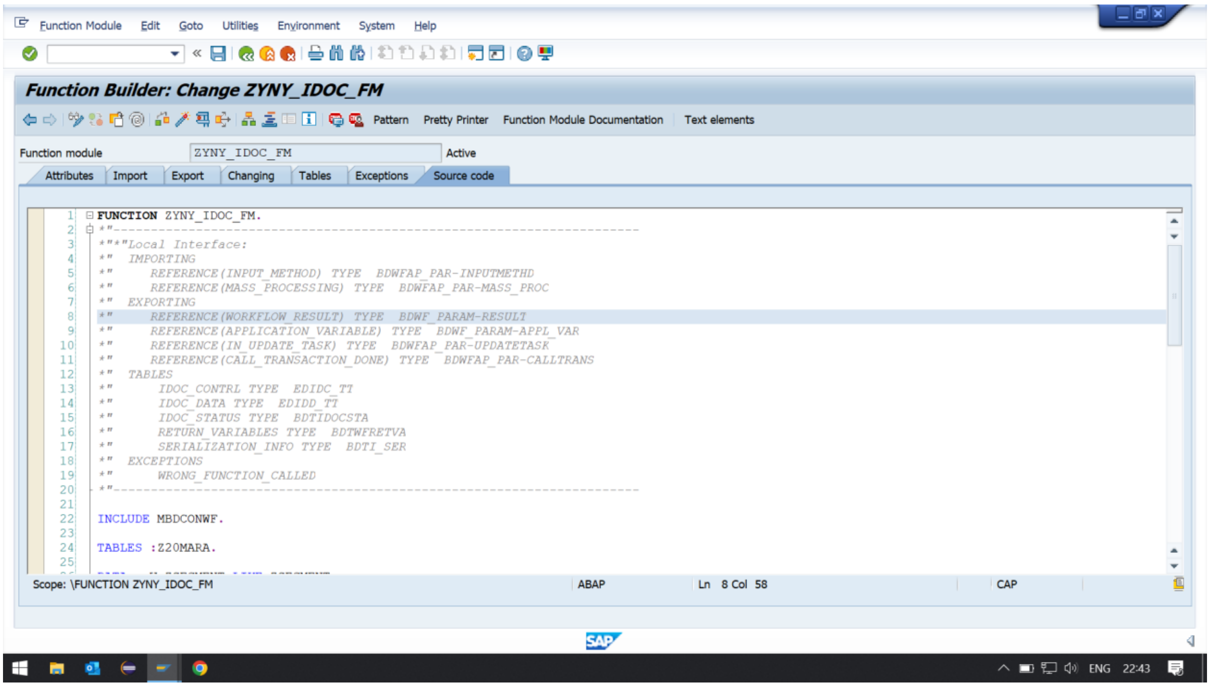
Parameter Name	Typing	Associated Type	Optional	Short text	Long Text
IDOC_CONTRL	TYPE	EDIDC_TT	□	Control record (IDoc)	Create
IDOC_DATA	TYPE	EDIDD_TT	□	Table Type for EDIDD (IDoc Data Records)	Create
IDOC_STATUS	TYPE	BDTIDOCSTA	□	Table Type for BDIDOCSTAT	Create
RETURN_VARIABLES	TYPE	BDTWFRETVA	□	Table Type for BDWFRETVAR	Create
SERIALIZATION_INFO	TYPE	BDTI_SER	□	Table Type for BDI_SER	Create


Function Module Edit Goto Utilities Environment System Help
Pattern Pretty Printer Function Module Documentation Text elements
Attributes Import Export Changing Tables Exceptions Source code
□ Classes

Function Builder: Change ZYNY_IDOC_FM

Function module ZYNY_IDOC_FM Active

Exception	Short text	Text
WRONG_FUNCTION_CALLED		Create


Function Module Edit Goto Utilities Environment System Help
Pattern Pretty Printer Function Module Documentation Text elements
Attributes Import Export Changing Tables Exceptions Source code
SAP
ENG 22:43

Function Builder: Change ZYNY_IDOC_FM

Function module ZYNY_IDOC_FM Active

```
FUNCTION ZYNY_IDOC_FM.
*"----------------------------------------------------------------------
*"*"Local Interface:
*"  IMPORTING
*"     REFERENCE(INPUT_METHOD) TYPE  BDWFAP_PAR-INPUTMETHD
*"     REFERENCE(MASS_PROCESSING) TYPE  BDWFAP_PAR-MASS_PROC
*"  EXPORTING
*"     REFERENCE(WORKFLOW_RESULT) TYPE  BDWF_PARAM-RESULT
*"     REFERENCE(APPLICATION_VARIABLE) TYPE  BDWF_PARAM-APPL_VAR
*"     REFERENCE(IN_UPDATE_TASK) TYPE  BDWFAP_PAR-UPDATETASK
*"     REFERENCE(CALL_TRANSACTION_DONE) TYPE  BDWFAP_PAR-CALLTRANS
*"  TABLES
*"      IDOC_CONTRL TYPE  EDIDC_TT
*"      IDOC_DATA TYPE  EDIDD_TT
*"      IDOC_STATUS TYPE  BDTIDOCSTA
*"      RETURN_VARIABLES TYPE  BDTWFRETVA
*"      SERIALIZATION_INFO TYPE  BDTI_SER
*"  EXCEPTIONS
*"      WRONG_FUNCTION_CALLED
*"----------------------------------------------------------------------

INCLUDE MBDCONWF.

TABLES :Z20MARA.

```

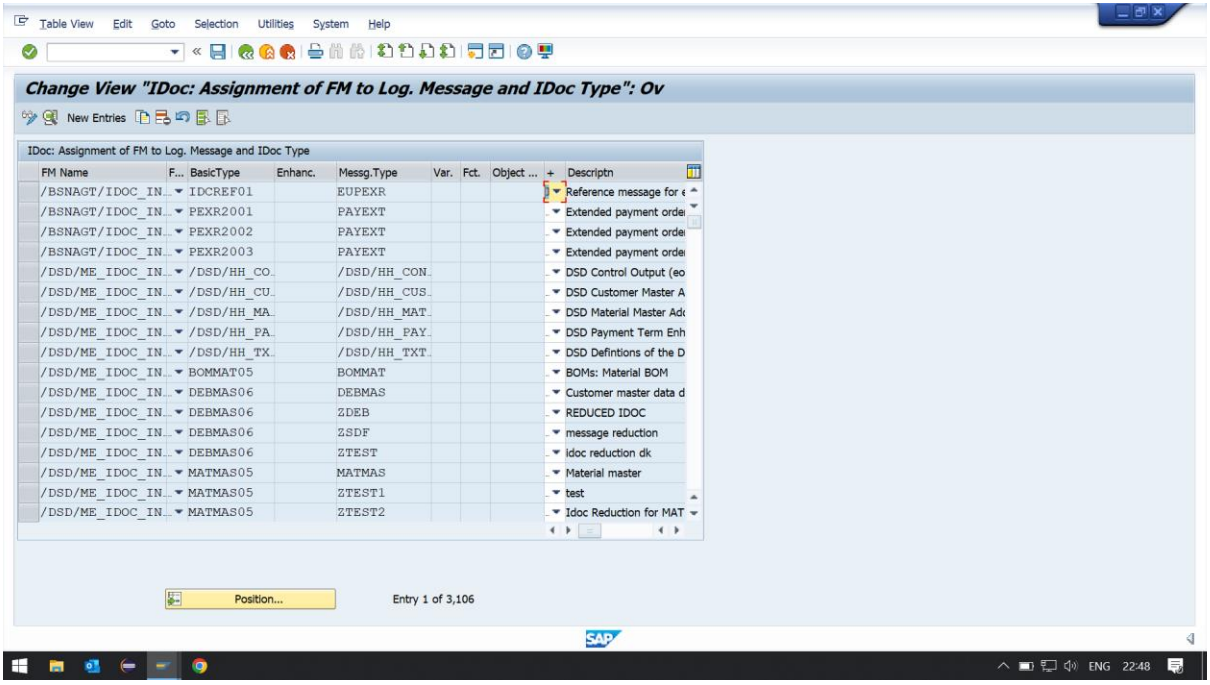
Scope: \FUNCTION ZYNY_IDOC_FM ABAP Ln 8 Col 58 CAP

```
FUNCTION ZYNY_IDOC_FM.
*"----------------------------------------------------------------------
*"*"Local Interface:
```

```
*"  IMPORTING
*"     REFERENCE(INPUT_METHOD) TYPE  BDWFAP_PAR-INPUTMETHD
*"     REFERENCE(MASS_PROCESSING) TYPE  BDWFAP_PAR-MASS_PROC
*"  EXPORTING
*"     REFERENCE(WORKFLOW_RESULT) TYPE  BDWF_PARAM-RESULT
*"     REFERENCE(APPLICATION_VARIABLE) TYPE  BDWF_PARAM-APPL_VAR
*"     REFERENCE(IN_UPDATE_TASK) TYPE  BDWFAP_PAR-UPDATETASK
*"     REFERENCE(CALL_TRANSACTION_DONE) TYPE  BDWFAP_PAR-CALLTRANS
*"  TABLES
*"      IDOC_CONTRL TYPE  EDIDC_TT
*"      IDOC_DATA TYPE  EDIDD_TT
*"      IDOC_STATUS TYPE  BDTIDOCSTA
*"      RETURN_VARIABLES TYPE  BDTWFRETVA
*"      SERIALIZATION_INFO TYPE  BDTI_SER
*"  EXCEPTIONS
*"      WRONG_FUNCTION_CALLED
*"----------------------------------------------------------------------

INCLUDE MBDCONWF.

TABLES :Z20MARA.

DATA : W_ZSEGMENT LIKE ZSEGMENT.

DATA : T_zdemo_material LIKE z20mara OCCURS 0 WITH HEADER LINE.
WORKFLOW_RESULT = C_WF_RESULT_OK.

LOOP AT IDOC_CONTRL.
IF IDOC_CONTRL-MESTYP NE 'ZYNY_MSG_TYPE'.
RAISE WRONG_FUNCTION_CALLED.
ENDIF.

*  Before reading a new entry, clear application buffer
LOOP AT IDOC_DATA WHERE DOCNUM EQ IDOC_CONTRL-DOCNUM.
W_ZSEGMENT = IDOC_DATA-SDATA.
MOVE-CORRESPONDING W_ZSEGMENT TO T_zdemo_material.
INSERT INTO z20mara VALUES T_zdemo_material.
ENDLOOP.

UPDATE z20mara FROM T_zdemo_material.

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_zdemo_material-MANDT.
APPEND IDOC_STATUS.
CLEAR IDOC_STATUS.
ELSE.
IDOC_STATUS-DOCNUM = IDOC_CONTRL-DOCNUM.
IDOC_STATUS-STATUS = '51'.
IDOC_STATUS-MSGTY = 'E'.
IDOC_STATUS-MSGID = 'YM'.
IDOC_STATUS-MSGNO = '005'.
IDOC_STATUS-MSGV1 = T_zdemo_material-MANDT.
```

```
APPEND IDOC_STATUS.
CLEAR IDOC_STATUS.

WORKFLOW_RESULT = C_WF_RESULT_ERROR.
RETURN_VARIABLES-WF_PARAM = 'Error_Idocs'.
RETURN_VARIABLES-DOC_NUMBER = IDOC_CONTRL-DOCNUM.
APPEND RETURN_VARIABLES.
CLEAR RETURN_VARIABLES.
ENDIF.
ENDLOOP.

ENDFUNCTION.
```

Assign FM(Function Module) to IDoc Type and Message Type(WE57).

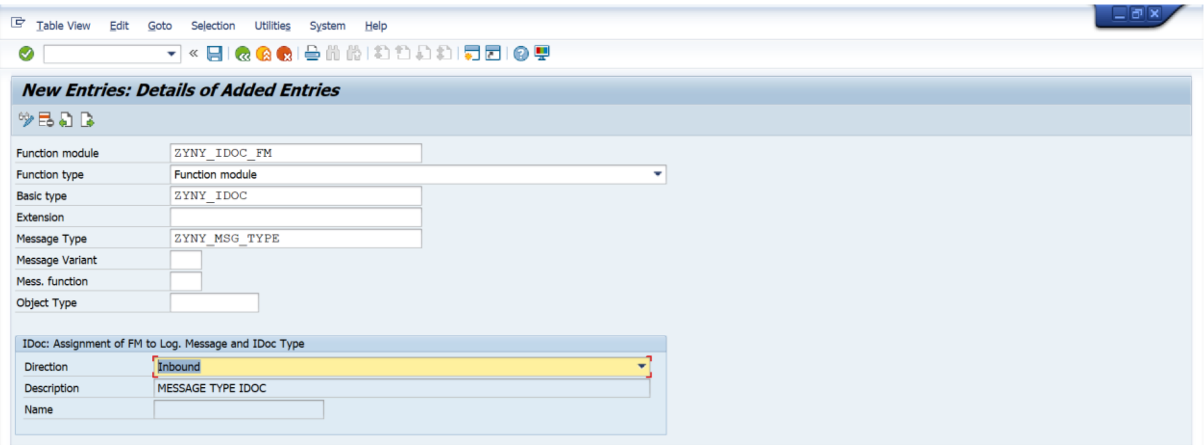


Change View "IDoc: Assignment of FM to Log. Message and IDoc Type": Ov

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

FM Name	F...	BasicType	Enhanc.	Messg.Type	Var.	Fct.	Object ...	+	Descriptn
/BSNAGT/IDOC_IN...		IDCREF01		EUPEXR					Reference message for e
/BSNAGT/IDOC_IN...		PEXR2001		PAYEXT					Extended payment orde
/BSNAGT/IDOC_IN...		PEXR2002		PAYEXT					Extended payment orde
/BSNAGT/IDOC_IN...		PEXR2003		PAYEXT					Extended payment orde
/DSD/ME_IDOC_IN...		/DSD/HH_CO...		/DSD/HH_CON...					DSD Control Output (eo
/DSD/ME_IDOC_IN...		/DSD/HH_CU...		/DSD/HH_CUS...					DSD Customer Master A
/DSD/ME_IDOC_IN...		/DSD/HH_MA...		/DSD/HH_MAT...					DSD Material Master Adc
/DSD/ME_IDOC_IN...		/DSD/HH_PA...		/DSD/HH_PAY...					DSD Payment Term Enh
/DSD/ME_IDOC_IN...		/DSD/HH_TX...		/DSD/HH_TXT...					DSD Defintions of the D
/DSD/ME_IDOC_IN...		BOMMAT05		BOMMAT					BOMs: Material BOM
/DSD/ME_IDOC_IN...		DEBMAS06		DEBMAS					Customer master data d
/DSD/ME_IDOC_IN...		DEBMAS06		ZDEB					REDUCED IDOC
/DSD/ME_IDOC_IN...		DEBMAS06		ZSDF					message reduction
/DSD/ME_IDOC_IN...		DEBMAS06		ZTEST					idoc reduction dk
/DSD/ME_IDOC_IN...		MATMAS05		MATMAS					Material master
/DSD/ME_IDOC_IN...		MATMAS05		ZTEST1					test
/DSD/ME_IDOC_IN...		MATMAS05		ZTEST2					Idoc Reduction for MAT

Entry 1 of 3,106



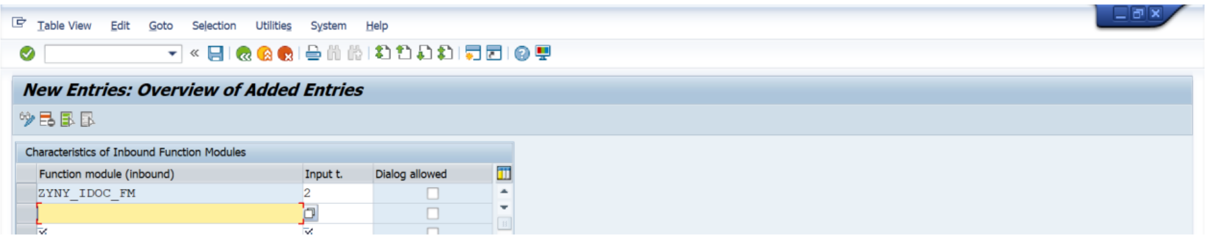
New Entries: Details of Added Entries

Function module	ZYNY_IDOC_FM
Function type	Function module
Basic type	ZYNY_IDOC
Extension	
Message Type	ZYNY_MSG_TYPE
Message Variant	
Mess. function	
Object Type	

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

Direction	Inbound
Description	MESSAGE TYPE IDOC
Name	

- **Define Inbound FM Characteristics (BD51):**
  - **Take transaction code BD51**
  - **Click New Entries to create a new type of message**



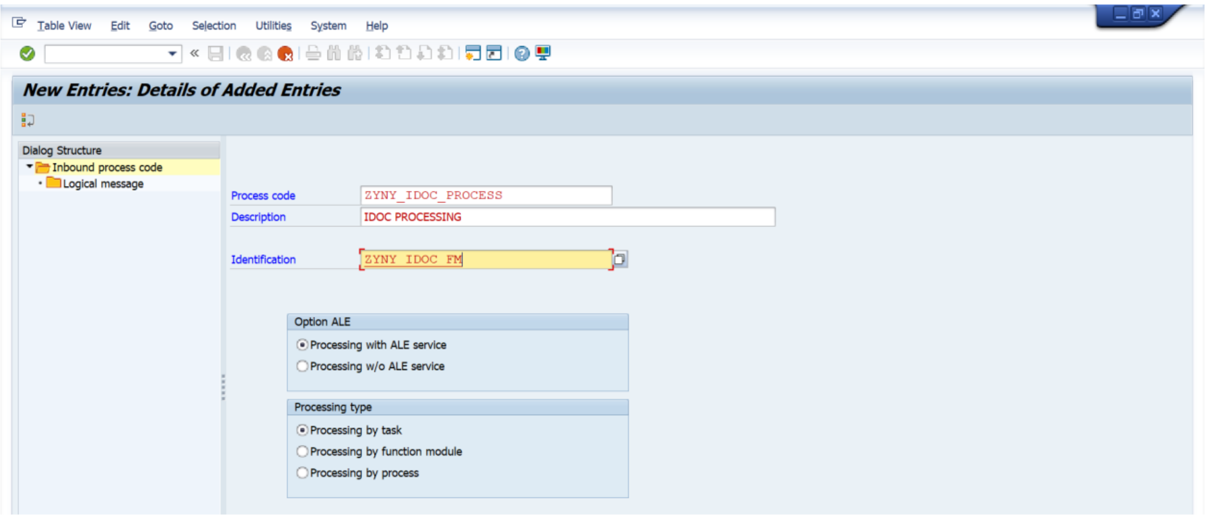
New Entries: Overview of Added Entries

Characteristics of Inbound Function Modules

Function module (inbound)	Input t.	Dialog allowed
ZYNY_IDOC_FM	2	□
		□

Create Inbound process code (WE42):

- Go to the WE42 transaction code
- Click the New Entries button to create a new Inbound process code.
- Fill in details
- Save it and go back there.



New Entries: Details of Added Entries

Process code: ZYNY_IDOC_PROCESS

Description: IDOC PROCESSING

Identification: ZYNY_IDOC_FM

Option ALE

- ● Processing with ALE service
- ○ Processing w/o ALE service

Processing type

- ● Processing by task
- ○ Processing by function module
- ○ Processing by process

3. Create a testing Scenario where we can upload data using Standard IDOC.(MATMAS, CREMAS etc)

Check in the system after updatation.