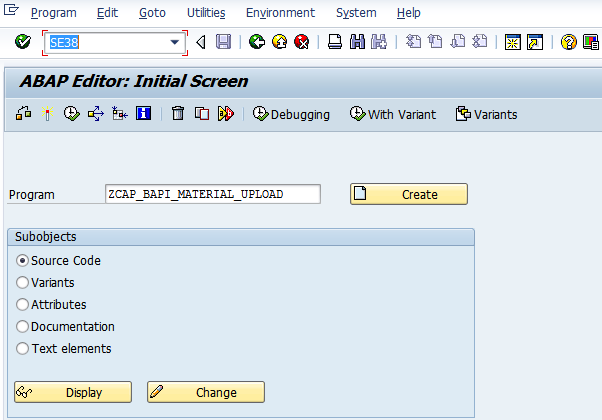
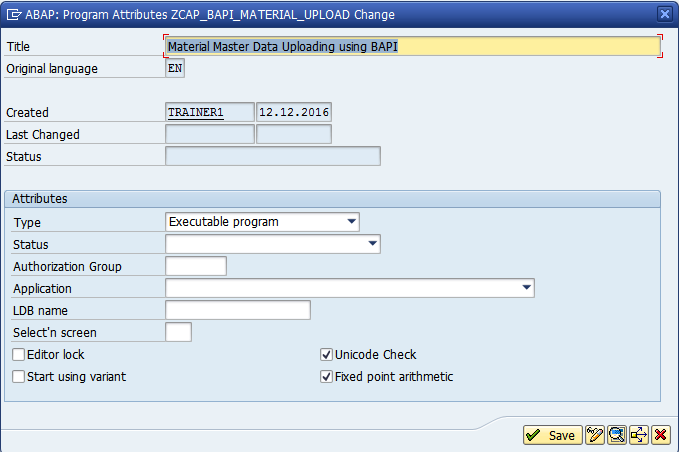
**BAPI Material Master Upload Demo Program # 2.**

***Program theme:*** *In this demo program you u can learn how to Create/Change (t-code MM01 and change MM02) the Material Master Data by sing the BAPI (Business Application Programming Interface) RFC Function Module* **BAPI\_MATERIAL\_SAVE\_DATA.**

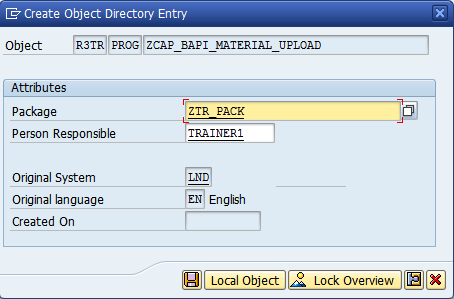
**Step # 1:** Go to transaction code SE38 and create the executable program.



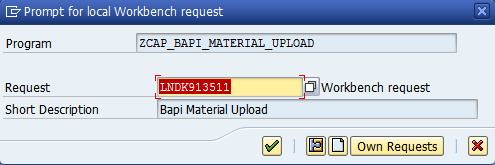
**Step # 2:** Provide the description click on save.



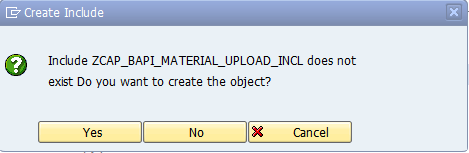
**Step # 3:** Save it in a package.

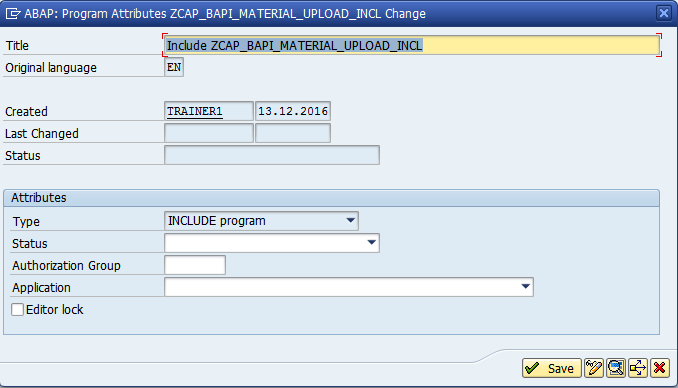


**Step # 4:** Provide the short description for change request.



**Step # 5:** Provide the ZInclude program name in the executable program and double click on it and click on yes to create the Include program.



**Step # 6:** Provide the title and click on save.

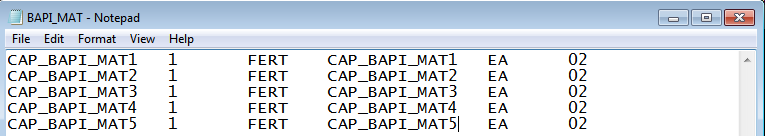
**Step # 7:** Declare all the Structures and internal tables and work areas and global variables etc.

*\*&---------------------------------------------------------------------\**  
*\*&  Include           ZCAP\_BAPI\_MATERIAL\_UPLOAD\_INCL*  
*\*&---------------------------------------------------------------------\**  
  
TABLES: BAPIMATHEAD,  *" Header Segment with Control Information*  
        BAPI\_MARA,    *" Material Data at Client Level*  
        BAPI\_MARAX,   *" Checkbox Structure for BAPI\_MARA*  
        BAPI\_MARC,    *" Material Data at Plant Level*  
        BAPI\_MARCX,   *" Checkbox Structure for BAPI\_MARC*  
        BAPI\_MAKT,    *" Material Descriptions*  
        BAPIRET2.     *" Return Parameter*  
  
TYPES : BEGIN OF TY\_TAB1,  *" Structure type*  
        MATNR(18),     *" Material Number*  
        MBRSH(1),      *" Industry sector*  
        MTART(4),      *" Material type*  
        MAKTX(40),     *" Material description*  
        MEINS(3),      *" Base Unit of Measure*  
        MATKL(9),      *" Material Group*  
        END OF TY\_TAB1.  
DATA :IT\_TAB1 TYPE STANDARD TABLE OF TY\_TAB1,  *" Main Internal table*  
      WA\_TAB1 TYPE TY\_TAB1.                    *" Main Work area*  
  
TYPES : BEGIN OF TY\_TAB2,  *" Structure type*  
        LANGU(1),      *" Language Key*  
        LANGU\_ISO(2),  *" 2-Character SAP Language Code*  
        MATL\_DESC(40), *" Material description*  
        DEL\_FLAG(1),   *" Delete Data Record*  
        END OF TY\_TAB2.  
  
DATA :IT\_TAB2 TYPE STANDARD TABLE OF TY\_TAB2, *" Material Description Internal table*  
      WA\_TAB2 TYPE TY\_TAB2.                   *" Work area*  
  
DATA : BEGIN OF IT\_RETURN OCCURS 0.  
  
       INCLUDE STRUCTURE BAPIRET2. *" Return Parameter Structure*  
  
DATA: END OF IT\_RETURN.

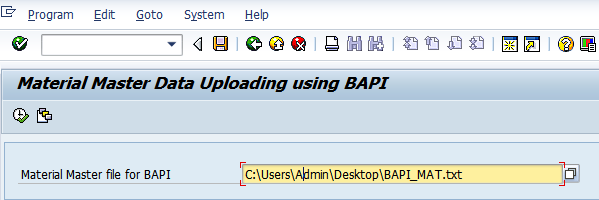
**Step # 8:** write the code logic in a main executable program and save it and activate both the Include and main program and execute the main BAPI program (F8).

\*&---------------------------------------------------------------------\*  
\*& Report ZCAP\_BAPI\_MATERIAL\_UPLOAD  
\*&---------------------------------------------------------------------\*  
\*&  
\*&---------------------------------------------------------------------\*  
REPORT ZCAP\_BAPI\_MATERIAL\_UPLOAD LINE-SIZE 800.  
  
INCLUDE ZCAP\_BAPI\_MATERIAL\_UPLOAD\_INCL.  " Include Program  
  
SELECTION-SCREEN BEGIN OF BLOCK B1 WITH FRAME TITLE TEXT-001.  
  
PARAMETERS P\_FILE TYPE RLGRAP-FILENAME. "Local file for upload  
  
SELECTION-SCREEN END OF BLOCK B1.  
  
AT SELECTION-SCREEN ON VALUE-REQUEST FOR P\_FILE.  " validation for Value Request  
  
  CALL FUNCTION 'F4\_FILENAME'  
    EXPORTING  
      PROGRAM\_NAME  = SYST-CPROG  
      DYNPRO\_NUMBER = SYST-DYNNR  
    IMPORTING  
      FILE\_NAME     = P\_FILE.  
  
START-OF-SELECTION.  
DATA  P\_FILE1 TYPE STRING.  
      P\_FILE1 = P\_FILE.  
  
  CALL FUNCTION 'GUI\_UPLOAD'   " Upload for Data Provider  
    EXPORTING  
      FILENAME            = P\_FILE1  
      FILETYPE            = 'ASC'  
      HAS\_FIELD\_SEPARATOR = 'X'  
    TABLES  
      DATA\_TAB            = IT\_TAB1.  
  
  LOOP AT IT\_TAB1 INTO WA\_TAB1.  
  
    BAPIMATHEAD-MATERIAL    = WA\_TAB1-MATNR.  
    BAPIMATHEAD-IND\_SECTOR  = WA\_TAB1-MBRSH.  
    BAPIMATHEAD-MATL\_TYPE   = WA\_TAB1-MTART.  
    BAPIMATHEAD-BASIC\_VIEW  = 'X'.  
  
    BAPI\_MARA-MATL\_GROUP    = WA\_TAB1-MATKL.  
    BAPI\_MARA-BASE\_UOM      = WA\_TAB1-MEINS.  
  
    BAPI\_MARAX-MATL\_GROUP   = 'X'.  
    BAPI\_MARAX-BASE\_UOM     = 'X'.  
  
    WA\_TAB2-LANGU     = 'E'.  
    WA\_TAB2-MATL\_DESC = WA\_TAB1-MAKTX.  
    APPEND WA\_TAB2 TO IT\_TAB2.  
  
    CALL FUNCTION 'BAPI\_MATERIAL\_SAVEDATA' " Calling RFC Function Module for Create and Change  
                                           " Material Master Data for MM01 and MM02 T-codes.  
      EXPORTING  
        HEADDATA            = BAPIMATHEAD  
        CLIENTDATA          = BAPI\_MARA  
        CLIENTDATAX         = BAPI\_MARAX  
        PLANTDATA           = BAPI\_MARC  
        PLANTDATAX          = BAPI\_MARCX  
      IMPORTING  
        RETURN              = IT\_RETURN  
      TABLES  
        MATERIALDESCRIPTION = IT\_TAB2.  
  
    WRITE : / IT\_RETURN-TYPE,             " Return Parameters displayed for BAPI Status  
            3  IT\_RETURN-ID,  
            23 IT\_RETURN-NUMBER,  
            25 IT\_RETURN-MESSAGE,  
               IT\_RETURN-LOG\_NO,  
               IT\_RETURN-MESSAGE\_V1,  
               IT\_RETURN-MESSAGE\_V2,  
               IT\_RETURN-MESSAGE\_V3,  
               IT\_RETURN-MESSAGE\_V4,  
               IT\_RETURN-PARAMETER,  
               IT\_RETURN-ROW,  
               IT\_RETURN-FIELD.  
  ENDLOOP.

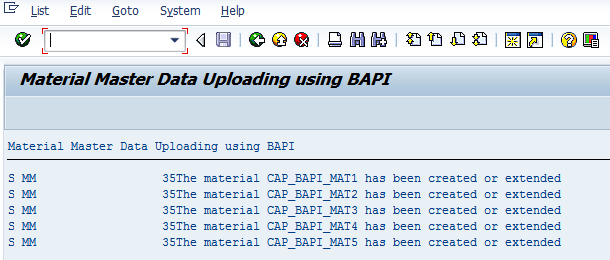
**Step # 9:** Prepare the flat file (.txt notepad format with tabulator space for each field) for new material master data upload.



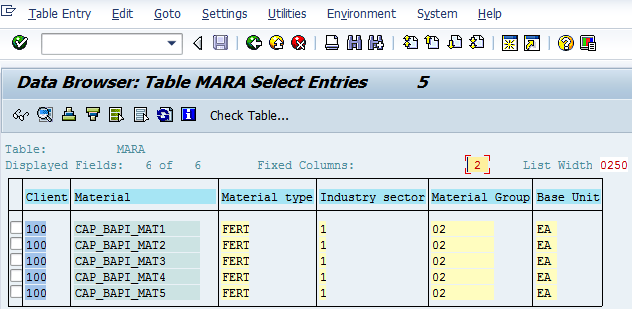
**Step # 10:** Execute the Main Program and select the flat file and press the execute button (F8) to upload the material mater data.



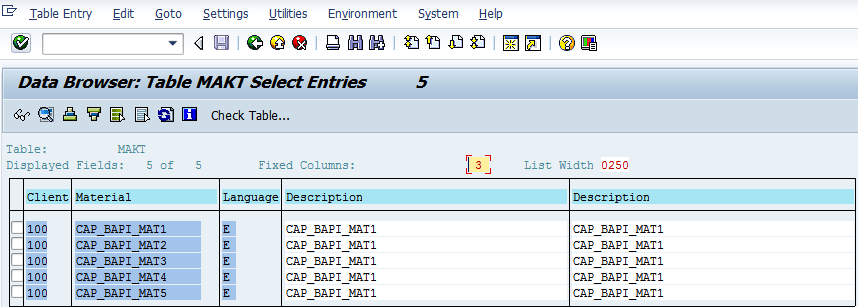
**Step # 11:** After successfully uploaded the materials you will get the below message, material has been created or extended for each record.



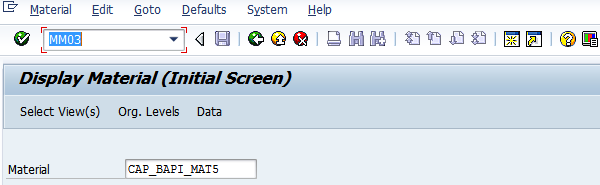
**Step # 12:** Go to SE11 and provide the MARA table name and cross check the content for materials has been posted or not?.



**Step # 13:** Go to SE11 provide the MAKT table and cross check the materials descriptions are posted or not.



**Step # 14:** Go to t-code MM03 (Display Material) and provide the latest material number from the flat file to check the material master info at application level.



**Step # 15:** Check the complete material info in the **Basic data1**tab.

*Successfully uploaded the material master data by suing the BAPI*

