

Program to Upload Documents for Metadata, Master Data & Info-Provider Data in BI System



Applies to:

SAP BI 7.0 system

Summary

Single program to upload documents for Meta data, Master data and Info Provider data in BI system

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Introduction

Single program to upload documents for Meta data, Master data and Info Provider data in BI system

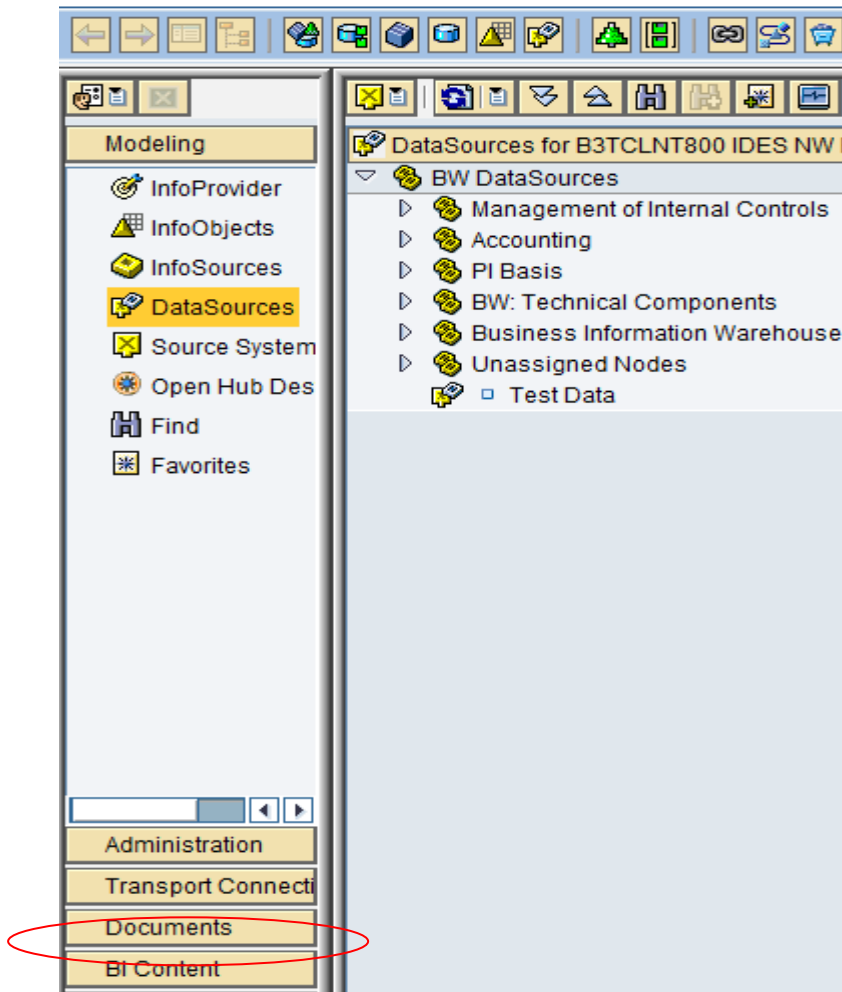
Goal

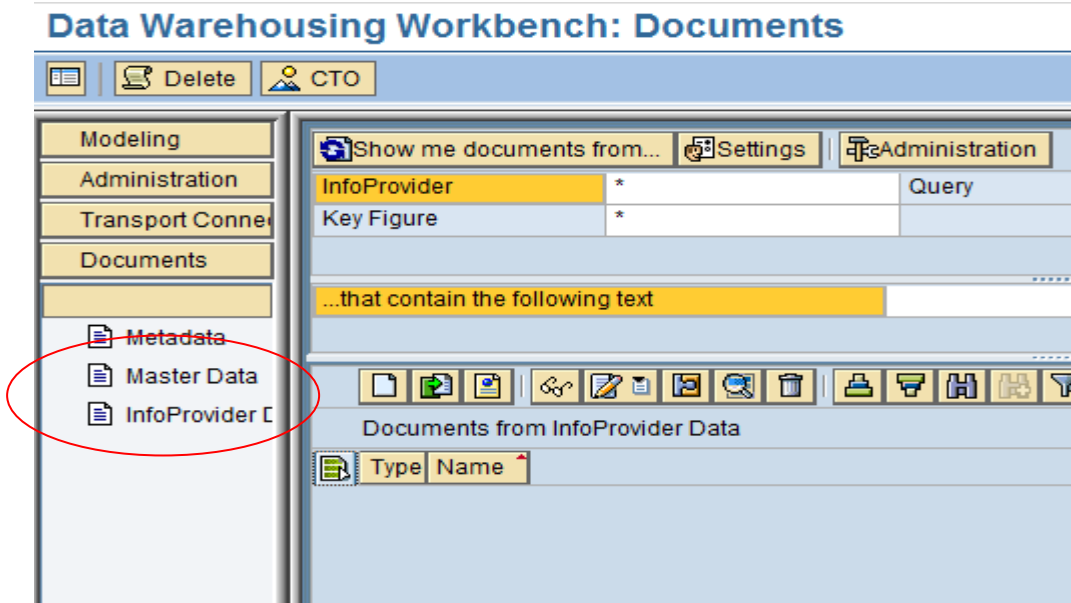
Often inside a BI system, we would require help documents for various types of data related to particular objects. These documents are to be uploaded manually inside the BI system, under the tab Documents in the DWB. This document describes how to upload various types of documents related to Meta data, Master data and Info Provider data into the BI system automatically using a single program

Graphical view

Documents Tab in DWB

Data Warehousing Workbench: Modeling





From the above screen, we can see the three different types of help documents that can be uploaded

- 1) Metadata
- 2) Master Data
- 3) InfoProvider Data

Program

The program **ZDOCUMENTS_UPLOAD** can be used as a single interface to upload documents of various types for the above mentioned three options. This program would provide a single selection screen, where the type of the object (infoobject, dso etc), the type (doc or pdf) of the document to be loaded and the path where the document is located can be selected. On executing the program after giving the required inputs in the selection screen, the documents available in the mentioned path would be uploaded inside the BI system for the particular object. The program will also display a success or failure message accordingly.

Note: The code for this program is provided at the end of the document

Executing the program

Go to the T-code se38, provide the program name and click on the execute (or F8) button

ABAP Editor: Initial Screen

Program

Subobjects

Source Code
 Variants
 Attributes
 Documentation
 Text elements

The selection appears,

ZDOCUMENTS_UPLOAD

Upload Documents

Master Data
Info-Object

Transaction Data
Info Provider
Query
Key figure

Meta Data
Object Type
Object Name

File Path & Type

File Path
 .DOC
 .PDF

Provide the necessary inputs and click on the small window in the selection window for “file Path”. This would open the browse for folder window on your PC. From here choose the folder where the documents to be uploaded are located

In this document as an example the radio button for master data document upload is selected. Similarly, the other two radio buttons Meta data and transaction data can be selected for uploading corresponding documents

In this example a help document is uploaded for the master data info-object 0MATERIAL. And the radio button .Doc is selected as the document is of type .doc

ZDOCUMENTS_UPLOAD

Upload Documents

Master Data
 Info-Object:

Transaction Data
 Info Provider:
 Query:
 Key figure:

Meta Data
 Object Type:
 Object Name:

File Path & Type

File Path:

.DOC
 .PDF

ZDOCUMENTS_UPLOAD

Upload Documents

Master Data
 Info-Object:

Transaction Data
 Info Provider:
 Query:
 Key figure:

Meta Data
 Object Type:
 Object Name:

File Path & Type

File Path:

.DOC
 .PDF

Browse For Folder

- Desktop
- ⊕ R, Premkumar
- ⊕ Public
- ⊖ BLRN50083264A
 - ⊕ Local Disk (C:)
 - ⊕ New Volume (D:)
 - ⊕ DVD RW Drive (E:)
- ⊕ Network
 - BO
 - F&O
 - New Folder
 - Programs

ZDOCUMENTS_UPLOAD

Upload Documents

Master Data
 Info-Object: 0MATERIAL

Transaction Data
 Info Provider:
 Query:
 Key figure:

Meta Data
 Object Type:
 Object Name:

File Path & Type

File Path: C:\Users\I034016\Desktop\New Folder

.DOC
 .PDF

On executing this program the document named “mat.doc” placed under the folder “New Folder” is uploaded into the system for the info-object 0MATERIAL

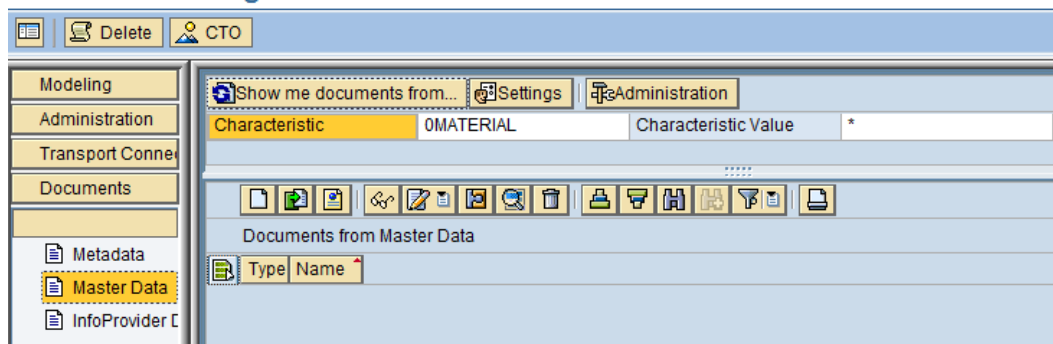
If the document was uploaded successfully the program gives a success message

SAP



The document can be viewed for the respective info-object under the tab documents in the DWB

Data Warehousing Workbench: Documents



Data Warehousing Workbench: Documents

Modeling Administration Transport Connections Documents

Metadata Master Data InfoProvider Data

Show me documents from... Settings Administration

Characteristic OMATERIAL Characteristic

Documents from Material 'All' (1)

Type	Name	Doc.Type	Agent	Title	Changed at
Doc	MAT.DOC				12.02.2009 11:43:42

View

File Edit View Insert Format Tools Table Window Help

100%

1 2 3

This is Material no. from table MARA in R/3 system

BI Content

Similar to the above example help documents for Meta data and infoprovider data can be uploaded and viewed.

Code

At the beginning of the program the text-messages used are provided, please create a text elements and copy the messages, refer screen shot below

ABAP Text Elements: Display Text Symbols Language English

Sy	Text	dLen	mL
T01	Upload Documents	16	16
T02	Master Data	11	11
T03	Info-Object	11	11
T04	Transaction Data	16	16
T05	Info Provider	13	13
T06	Query	5	5
T07	Key figure	10	10
T08	Meta Data	9	9
T09	Object Type	11	11
T10	Object Name	11	11
T11	File Path & Type	16	16
T12	File Path	9	9
T13	.DOC	4	4
T14	.PDF	4	4
T15	Error in uploading File	23	23
T16	Error Loading Document	22	22
T17	Successfully Loaded	18	18

```

*&-----*
*& Report  ZDOCUMENTS_UPLOAD
*&
*&-----*
*&
*&
*&-----*
*T01      Upload Documents
*T02      Master Data
*T03      Info-Object
*T04      Transaction Data
*T05      Info Provider
*T06      Query
*T07      Key figure
*T08      Meta Data
*T09      Object Type
*T10      Object Name
*T11      File Path & Type
*T12      File Path
*T13      .DOC
*T14      .PDF
    
```

```
*T15      Error in uploading File
*T16      Error Loading Document
*T17      Successfully Loaded
REPORT   ZDOCUMENTS_UPLOAD.
SELECTION-SCREEN BEGIN OF BLOCK BLK1 WITH FRAME TITLE TEXT-T01.
SELECTION-SCREEN BEGIN OF LINE.
SELECTION-SCREEN POSITION 5.
PARAMETERS R1 RADIOBUTTON GROUP RAD1.
SELECTION-SCREEN COMMENT 8(20) TEXT-T02.
SELECTION-SCREEN END OF LINE.
SELECTION-SCREEN BEGIN OF LINE.
SELECTION-SCREEN POSITION 5.
SELECTION-SCREEN COMMENT 8(13) TEXT-T03.
PARAMETERS: INF_OBJ(30).
SELECTION-SCREEN END OF LINE.
SELECTION-SCREEN BEGIN OF LINE.
SELECTION-SCREEN POSITION 5.
PARAMETERS R2 RADIOBUTTON GROUP RAD1.
SELECTION-SCREEN COMMENT 8(20) TEXT-T04.
SELECTION-SCREEN END OF LINE.
SELECTION-SCREEN BEGIN OF LINE.
SELECTION-SCREEN POSITION 5.
SELECTION-SCREEN COMMENT 8(13) TEXT-T05.
PARAMETERS: INF_PRIV(30).
SELECTION-SCREEN END OF LINE.
SELECTION-SCREEN BEGIN OF LINE.
SELECTION-SCREEN POSITION 5.
SELECTION-SCREEN COMMENT 8(13) TEXT-T06.
PARAMETERS: INF_QUERY(30).
SELECTION-SCREEN END OF LINE.
SELECTION-SCREEN BEGIN OF LINE.
SELECTION-SCREEN POSITION 5.
SELECTION-SCREEN COMMENT 8(13) TEXT-T07.
PARAMETERS: KYF_FIG(30).
SELECTION-SCREEN END OF LINE.
SELECTION-SCREEN BEGIN OF LINE.
SELECTION-SCREEN POSITION 5.
PARAMETERS R3 RADIOBUTTON GROUP RAD1.
SELECTION-SCREEN COMMENT 8(20) TEXT-T08.
SELECTION-SCREEN END OF LINE.
SELECTION-SCREEN BEGIN OF LINE.
SELECTION-SCREEN POSITION 5.
SELECTION-SCREEN COMMENT 8(13) TEXT-T09.
PARAMETERS: OBJ_TYP(4).
SELECTION-SCREEN END OF LINE.
SELECTION-SCREEN BEGIN OF LINE.
SELECTION-SCREEN POSITION 5.
SELECTION-SCREEN COMMENT 8(13) TEXT-T10.
PARAMETERS: OBJ_NAM(40).
SELECTION-SCREEN END OF LINE.
SELECTION-SCREEN END OF BLOCK BLK1.
SELECTION-SCREEN BEGIN OF BLOCK BLK2 WITH FRAME TITLE TEXT-T11.
SELECTION-SCREEN BEGIN OF LINE.
SELECTION-SCREEN POSITION 5.
SELECTION-SCREEN COMMENT 8(13) TEXT-T12.
PARAMETER P_PATH(40) OBLIGATORY DEFAULT 'C:\'.
```

```

SELECTION-SCREEN END OF LINE.
SELECTION-SCREEN BEGIN OF LINE.
SELECTION-SCREEN POSITION 22.
PARAMETERS R4 RADIOBUTTON GROUP RAD2.
SELECTION-SCREEN COMMENT 24(30) TEXT-T13.
SELECTION-SCREEN END OF LINE.
SELECTION-SCREEN BEGIN OF LINE.
SELECTION-SCREEN POSITION 22.
PARAMETERS R5 RADIOBUTTON GROUP RAD2.
SELECTION-SCREEN COMMENT 24(30) TEXT-T14.
SELECTION-SCREEN END OF LINE.
SELECTION-SCREEN END OF BLOCK BLK2.
DATA: L_S_CHAVL TYPE RSOD_S_CHANM_CHAVL.
DATA: L_T_CHAVL TYPE TABLE OF RSOD_S_CHANM_CHAVL.
DATA: L_S_EXCPT(5) TYPE C.
DATA: L_T_DATA_TAB_ASC TYPE SDOKCNTASCS.
DATA: L_T_DATA_TAB_BIN TYPE SDOKCNTBINS.
DATA: RC TYPE SY-SUBRC.
DATA: WA_DIR(100). " like file_info.
DATA: DAY(2) TYPE C.
DATA: L_S_CONTENT_INFO TYPE RSOD_S_CONTENT_INFO.
DATA: DIR_TAB TYPE STANDARD TABLE OF FILE_INFO.
DATA: DIR_ENTRY(100).
*DATA: p_path(40) type C .
DATA: L_S_PERI LIKE T009B-POPER.
DATA: L_S_PER(2) TYPE C.
TYPES: BEGIN OF FILEINFOSTRUC,
MATERIAL(18),
END OF FILEINFOSTRUC.
TYPES: DATE TYPE SY-DATUM.
DATA: L_S_YEAR LIKE T009B-BDATJ.
DATA: FILEINFO TYPE FILEINFOSTRUC.
DATA: DATE TYPE DATE.
DATA: COUNT TYPE I.
DATA: LEN TYPE I.
DATA: OFFSET TYPE I.
DATA: ID TYPE I.
DATA: FILENAME TYPE STRING.
DATA: THEMA TYPE STRING.
DATA: PFAD TYPE C.
DATA: DIR TYPE STRING.
DATA: DESCR TYPE SDOK_DESCR.
DATA: NAME TYPE SKWF_URLP.
DATA: L_T_RETURN TYPE BAPIRET2.
DATA: L_FILELENGTH TYPE I.
DATA: FILE_TAB TYPE FILETABLE,
SINGLE_FILE TYPE FILETABLE.
DATA: FILE_LINE LIKE LINE OF FILE_TAB.
DATA: LS_PATH TYPE STRING.
DATA: L_TYP(4).
*INTERFACE IF_RSOD_CONST LOAD.
*PARAMETER P_PATH(40) OBLIGATORY DEFAULT 'C:\'.
* Display file selection dialog
AT SELECTION-SCREEN ON VALUE-REQUEST FOR P_PATH.
    PERFORM GET_FILES.
START-OF-SELECTION.

```

```

IF R1 = 'X' AND R4 = 'X'.
  IF INF_OBJ = ' '.
    MESSAGE 'SPECIFY INFO-OBJECT NAME' TYPE 'E'.
  ENDIF.
  LOOP AT DIR_TAB INTO DIR_ENTRY.
    LEN = STRLEN( DIR_ENTRY ).
    LEN = LEN - 4.
    L_TYP = DIR_ENTRY+LEN(4).
    CLEAR LEN.
    IF L_TYP = '.doc'.
* Build filename
      TRANSLATE DIR_ENTRY TO UPPER CASE.
      CLEAR: FILENAME.
      CONCATENATE P_PATH '\\' DIR_ENTRY INTO FILENAME.
* call upload
      CALL FUNCTION 'GUI_UPLOAD'
        EXPORTING
          FILENAME           = FILENAME
          FILETYPE            = 'BIN'
* HAS_FIELD_SEPARATOR      = ' '
* HEADER_LENGTH            = 0
* READ_BY_LINE             = 'X'
* DAT_MODE                  = ' '
        IMPORTING
          FILELENGTH          = L_FILELENGTH
        TABLES
          DATA_TAB           = L_T_DATA_TAB_BIN
        EXCEPTIONS
          FILE_OPEN_ERROR     = 1
          FILE_READ_ERROR     = 2
          NO_BATCH             = 3
          GUI_REFUSE_FILETRANSFER = 4
          INVALID_TYPE        = 5
          NO_AUTHORITY        = 6
          UNKNOWN_ERROR       = 7
          BAD_DATA_FORMAT     = 8
          HEADER_NOT_ALLOWED  = 9
          SEPARATOR_NOT_ALLOWED = 10
          HEADER_TOO_LONG    = 11
          UNKNOWN_DP_ERROR    = 12
          ACCESS_DENIED       = 13
          DP_OUT_OF_MEMORY    = 14
          DISK_FULL           = 15
          DP_TIMEOUT          = 16
          OTHERS              = 17.
      IF SY-SUBRC <> 0.
        WRITE: / TEXT-T15, SY-SUBRC, DIR_ENTRY. "Error in uploading File
        EXIT.
      ENDIF.
* fill assignments for material
      LEN = STRLEN( DIR_ENTRY ) - 4.
      REFRESH L_T_CHAVL.
      L_S_CHAVL-CHANM = INF_OBJ.      "'0MATERIAL'.
      L_S_CHAVL-CHAVL = DIR_ENTRY+0(LEN).
      CALL FUNCTION 'CONVERSION_EXIT_MATN1_INPUT'
        EXPORTING

```

```

        INPUT          = L_S_CHAVL-CHAVL
        IMPORTING
        OUTPUT        = L_S_CHAVL-CHAVL
        EXCEPTIONS
            LENGTH_ERROR = 1
            OTHERS       = 2.
        APPEND L_S_CHAVL TO L_T_CHAVL.
* set mime-type
        L_S_CONTENT_INFO-MIMETYPE = 'application/msword'.
        L_S_CONTENT_INFO-FILE_NAME = DIR_ENTRY.
        L_S_CONTENT_INFO-FILE_SIZE = L_FILELENGTH.
* set name and title
        NAME = DIR_ENTRY.
        CLEAR L_T_RETURN.
* upload document
        CALL FUNCTION 'RSOD_DOC_MAST_CHANGE'
            EXPORTING
                I_CHANM          = L_S_CHAVL-CHANM
                I_CHAVL          = L_S_CHAVL-CHAVL
*            I_DOC_TYPE          =
                I_DESCRIPTION     = DESCR
                I_NAME           = NAME
*            I_LANGU            = SY-LANGU
                I_OVERWRITE_MODE = IF_RSOD_CONST=>MODE_REPLACE_PHIO
                I_WITH_CONTENT   = 'X'
                I_S_CONTENT_INFO = L_S_CONTENT_INFO
*            I_WITH_URL        =
*            I_URL             =
*            I_COPY_URL_CONTENT =
            IMPORTING
*            E_NAME            =
                E_S_RETURN       = L_T_RETURN
            TABLES
                I_T_FILE_CONTENT_ASCII = L_T_DATA_TAB_ASC
                I_T_FILE_CONTENT_BINARY = L_T_DATA_TAB_BIN.
        IF L_T_RETURN-TYPE = 'E' OR
           L_T_RETURN-TYPE = 'W' OR
           L_T_RETURN-TYPE = 'A'.
* error
        WRITE: / DIR_ENTRY(25), TEXT-T16. " L_T_RETURN-TYPE, L_T_RETURN-ID,
L_T_RETURN-NUMBER.
        ELSE.
* successfully loaded
        WRITE: / DIR_ENTRY(25), TEXT-T17.
        ENDIF.
    ENDIF.
ENDLOOP.
ENDIF.
IF R1 = 'X' AND R5 = 'X'.
    IF INF_OBJ = ' '.
        MESSAGE 'SPECIFY INFO-OBJECT NAME' TYPE 'E'.
    ENDIF.
    LOOP AT DIR_TAB INTO DIR_ENTRY.
        LEN = STRLEN( DIR_ENTRY ).
        LEN = LEN - 4.
        L_TYP = DIR_ENTRY+LEN(4).

```

```

CLEAR LEN.
IF L_TYP = '.pdf'.
* Build filename
  TRANSLATE DIR_ENTRY TO UPPER CASE.
  CLEAR: FILENAME.
  CONCATENATE P_PATH '\ ' DIR_ENTRY INTO FILENAME.
* call upload
  CALL FUNCTION 'GUI_UPLOAD'
    EXPORTING
      FILENAME           = FILENAME
      FILETYPE           = 'BIN'
*   HAS_FIELD_SEPARATOR = ' '
*   HEADER_LENGTH       = 0
*   READ_BY_LINE        = 'X'
*   DAT_MODE            = ' '
    IMPORTING
      FILELENGTH         = L_FILELENGTH
    TABLES
      DATA_TAB          = L_T_DATA_TAB_BIN
    EXCEPTIONS
      FILE_OPEN_ERROR    = 1
      FILE_READ_ERROR    = 2
      NO_BATCH           = 3
      GUI_REFUSE_FILETRANSFER = 4
      INVALID_TYPE       = 5
      NO_AUTHORITY       = 6
      UNKNOWN_ERROR      = 7
      BAD_DATA_FORMAT    = 8
      HEADER_NOT_ALLOWED = 9
      SEPARATOR_NOT_ALLOWED = 10
      HEADER_TOO_LONG    = 11
      UNKNOWN_DP_ERROR   = 12
      ACCESS_DENIED      = 13
      DP_OUT_OF_MEMORY   = 14
      DISK_FULL          = 15
      DP_TIMEOUT         = 16
      OTHERS              = 17.
  IF SY-SUBRC <> 0.
    WRITE: / TEXT-T15, SY-SUBRC, DIR_ENTRY. "Error in uploading File
    EXIT.
  ENDIF.
* fill assignments for material
  LEN = STRLEN( DIR_ENTRY ) - 4.
  REFRESH L_T_CHAVL.
  L_S_CHAVL-CHANM = INF_OBJ.      "'0MATERIAL'.
  L_S_CHAVL-CHAVL = DIR_ENTRY+0(LEN).
  CALL FUNCTION 'CONVERSION_EXIT_MATN1_INPUT'
    EXPORTING
      INPUT           = L_S_CHAVL-CHAVL
    IMPORTING
      OUTPUT          = L_S_CHAVL-CHAVL
    EXCEPTIONS
      LENGTH_ERROR    = 1
      OTHERS          = 2.
  APPEND L_S_CHAVL TO L_T_CHAVL.
* set mime-type

```

```

L_S_CONTENT_INFO-MIMETYPE = 'application/pdf'.
L_S_CONTENT_INFO-FILE_NAME = DIR_ENTRY.
L_S_CONTENT_INFO-FILE_SIZE = L_FILELENGTH.
* set name and title
  NAME = DIR_ENTRY.
  CLEAR L_T_RETURN.
* upload document
  CALL FUNCTION 'RSOD_DOC_MAST_CHANGE'
    EXPORTING
      I_CHANM           = L_S_CHAVL-CHANM
      I_CHAVL          = L_S_CHAVL-CHAVL
*      I_DOC_TYPE       =
      I_DESCRIPTION    = DESCR
      I_NAME           = NAME
*      I_LANGU         = SY-LANGU
      I_OVERWRITE_MODE = IF_RSOD_CONST=>MODE_REPLACE_PHIO
      I_WITH_CONTENT   = 'X'
      I_S_CONTENT_INFO = L_S_CONTENT_INFO
*      I_WITH_URL      =
*      I_URL           =
*      I_COPY_URL_CONTENT =
    IMPORTING
*      E_NAME          =
      E_S_RETURN       = L_T_RETURN
    TABLES
      I_T_FILE_CONTENT_ASCII = L_T_DATA_TAB_ASC
      I_T_FILE_CONTENT_BINARY = L_T_DATA_TAB_BIN.
  IF L_T_RETURN-TYPE = 'E' OR
  L_T_RETURN-TYPE = 'W' OR
  L_T_RETURN-TYPE = 'A'.
* error
  WRITE: / DIR_ENTRY(25), TEXT-T16. " L_T_RETURN-TYPE, L_T_RETURN-ID,
L_T_RETURN-NUMBER.
  ELSE.
* successfully loaded
  WRITE: / DIR_ENTRY(25), TEXT-T17.
  ENDIF.
ENDIF.
ENDLOOP.
ENDIF.
*&-----*
*&      Form get_files
*&-----*
*      text
*-----*
FORM GET_FILES.
  DIR = P_PATH.
  DATA: FOLDER TYPE STRING.
  CALL METHOD CL_GUI_FRONTEND_SERVICES=>DIRECTORY_BROWSE
    EXPORTING
*      WINDOW_TITLE   =
      INITIAL_FOLDER  = 'C:\'
    CHANGING
      SELECTED_FOLDER = FOLDER.
* EXCEPTION
* CNTL_ERROR = 1

```

```

* ERROR_NO_GUI = 2
* NOT_SUPPORTED_BY_GUI = 3
* others = 4
IF SY-SUBRC <> 0.
* add your error message here
* MESSAGE ID SY-MSGID TYPE SY-MSGTY NUMBER SY-MSGNO
* WITH SY-MSGV1 SY-MSGV2 SY-MSGV3 SY-MSGV4.
ENDIF.
P_PATH = FOLDER.
*fetch all files from directory, use *.doc as mask
CALL METHOD CL_GUI_FRONTEND_SERVICES=>DIRECTORY_LIST_FILES
  EXPORTING
    DIRECTORY          = FOLDER
*    FILTER            = '*.doc'
    FILES_ONLY        = 'X'
*    DIRECTORIES_ONLY =
  CHANGING
    FILE_TABLE        = DIR_TAB
    COUNT             = COUNT
  EXCEPTIONS
    CNTL_ERROR        = 1
    DIRECTORY_LIST_FILES_FAILED = 2
    WRONG_PARAMETER   = 3
    ERROR_NO_GUI      = 4
    NOT_SUPPORTED_BY_GUI = 5
    OTHERS            = 6.
ENDFORM. "get_files
*-----
--
*-----PROGRAM FOR TRANSACTION DATA-----
--
*-----
--
*AT SELECTION-SCREEN ON VALUE-REQUEST FOR P_PATH.
* PERFORM GET_FILES.
START-OF-SELECTION.
IF R2 = 'X' AND R4 = 'X'.
  IF INF_PRV = ' ' AND INF_QURY = ' ' AND KYF_FIG = ''.
    MESSAGE 'Specify an info-provider or query or keyfigure name' TYPE 'E'.
  ENDIF.
  LOOP AT DIR_TAB INTO DIR_ENTRY.
    LEN = STRLEN( DIR_ENTRY ).
    LEN = LEN - 4.
    L_TYP = DIR_ENTRY+LEN(4).
    CLEAR LEN.
    IF L_TYP = '.doc'.
* build filename
      TRANSLATE DIR_ENTRY TO UPPER CASE.
      CLEAR: FILENAME.
      CONCATENATE P_PATH '\ ' DIR_ENTRY INTO FILENAME.
* call upload
      CALL FUNCTION 'GUI_UPLOAD'
        EXPORTING
          FILENAME          = FILENAME
          FILETYPE          = 'BIN'
*          HAS_FIELD_SEPARATOR = ' '

```



```

*      HEADER_LENGTH          = 0
*      READ_BY_LINE          = 'X'
*      DAT_MODE              = ' '
      IMPORTING
      FILELENGTH              = L_FILELENGTH
      TABLES
      DATA_TAB                = L_T_DATA_TAB_BIN
      EXCEPTIONS
      FILE_OPEN_ERROR         = 1
      FILE_READ_ERROR         = 2
      NO_BATCH                 = 3
      GUI_REFUSE_FILETRANSFER = 4
      INVALID_TYPE            = 5
      NO_AUTHORITY            = 6
      UNKNOWN_ERROR           = 7
      BAD_DATA_FORMAT         = 8
      HEADER_NOT_ALLOWED      = 9
      SEPARATOR_NOT_ALLOWED   = 10
      HEADER_TOO_LONG         = 11
      UNKNOWN_DP_ERROR        = 12
      ACCESS_DENIED           = 13
      DP_OUT_OF_MEMORY        = 14
      DISK_FULL                = 15
      DP_TIMEOUT               = 16
      OTHERS                   = 17.
      IF SY-SUBRC <> 0.
        WRITE: / TEXT-002, SY-SUBRC, DIR_ENTRY."Error in uploading File
        EXIT.
      ENDIF.
* fill assignments for country, calmonth
*      REFRESH L_T_CHAVL.
*      L_S_CHAVL-CHANM = '0MATERIAL'.
*      L_S_CHAVL-CHAVL = DIR_ENTRY+0(2).
*      APPEND L_S_CHAVL TO L_T_CHAVL.
**     L_S_CHAVL-CHANM = '0CALMONTH'.
**     L_S_CHAVL-CHAVL = DIR_ENTRY+3(6).
**     APPEND L_S_CHAVL TO L_T_CHAVL.
* set mime-type
      L_S_CONTENT_INFO-MIMETYPE = 'application/msword'.
      L_S_CONTENT_INFO-FILE_NAME = FILENAME.
      L_S_CONTENT_INFO-FILE_SIZE = L_FILELENGTH.
* set name and title
      NAME = DIR_ENTRY.
      CLEAR L_T_RETURN.
* upload document
      CALL FUNCTION 'RSOD_DOC_TRAN_CHANGE'
      EXPORTING
      I_INFOPROV              = INF_PRV
      I_QUERY                 = INF_QURY
      I_KYFNM                 = KYF_FIG
      I_DESCRIPTION           = DESCR
      I_NAME                   = NAME
*      I_LANGU                 = SY-LANGU
      I_OVERWRITE_MODE        = IF_RSOD_CONST=>MODE_REPLACE_PHIO
"IF_RSOD_CONST=>mode_new_phio
      I_WITH_CONTENT          = 'X'

```

```

        I_S_CONTENT_INFO      = L_S_CONTENT_INFO
*       I_WITH_URL            =
*       I_URL                 =
*       I_COPY_URL_CONTENT    =
        IMPORTING
*       E_NAME                =
        E_S_RETURN            = L_T_RETURN
        TABLES
*       I_T_CHAVL             = L_T_CHAVL
        I_T_FILE_CONTENT_ASCII = L_T_DATA_TAB_ASC
        I_T_FILE_CONTENT_BINARY = L_T_DATA_TAB_BIN.
        IF L_T_RETURN-TYPE = 'E' OR
        L_T_RETURN-TYPE = 'W' OR
        L_T_RETURN-TYPE = 'A'.
* error
        WRITE: / DIR_ENTRY(25), TEXT-T16.  " L_T_RETURN-TYPE,L_T_RETURN-
ID,L_T_RETURN-NUMBER.
        ELSE.
* successfully loaded
        WRITE: / DIR_ENTRY(25), TEXT-T17.
        ENDIF.
        ENDIF.
        ENDLOOP.
    ENDIF.
    IF R2 = 'X' AND R5 = 'X'.
        IF INF_PRV = ' ' AND INF_QURY = ' ' AND KYF_FIG = ''.
            MESSAGE 'Specify an info-provider or query or keyfigure name' TYPE 'E'.
        ENDIF.
        LOOP AT DIR_TAB INTO DIR_ENTRY.
            LEN = STRLEN( DIR_ENTRY ).
            LEN = LEN - 4.
            L_TYP = DIR_ENTRY+LEN(4).
            CLEAR LEN.
            IF L_TYP = '.pdf'.
* build filename
                TRANSLATE DIR_ENTRY TO UPPER CASE.
                CLEAR: FILENAME.
                CONCATENATE P_PATH '\ ' DIR_ENTRY INTO FILENAME.
* call upload
                CALL FUNCTION 'GUI_UPLOAD'
                    EXPORTING
                        FILENAME      = FILENAME
                        FILETYPE       = 'BIN'
*             HAS_FIELD_SEPARATOR    = ' '
*             HEADER_LENGTH         = 0
*             READ_BY_LINE          = 'X'
*             DAT_MODE              = ' '
                    IMPORTING
                        FILELENGTH    = L_FILELENGTH
                    TABLES
                        DATA_TAB     = L_T_DATA_TAB_BIN
                    EXCEPTIONS
                        FILE_OPEN_ERROR    = 1
                        FILE_READ_ERROR    = 2
                        NO_BATCH           = 3
                        GUI_REFUSE_FILETRANSFER = 4
            ENDIF.
        ENDLOOP.
    ENDIF.

```

```

INVALID_TYPE           = 5
NO_AUTHORITY          = 6
UNKNOWN_ERROR         = 7
BAD_DATA_FORMAT       = 8
HEADER_NOT_ALLOWED    = 9
SEPARATOR_NOT_ALLOWED = 10
HEADER_TOO_LONG       = 11
UNKNOWN_DP_ERROR      = 12
ACCESS_DENIED         = 13
DP_OUT_OF_MEMORY      = 14
DISK_FULL             = 15
DP_TIMEOUT            = 16
OTHERS                = 17.

IF SY-SUBRC <> 0.
  WRITE: / TEXT-002, SY-SUBRC, DIR_ENTRY."Error in uploading File
  EXIT.
ENDIF.

* fill assignments for country, calmonth
*   REFRESH L_T_CHAVL.
*   L_S_CHAVL-CHANM = '0MATERIAL'.
*   L_S_CHAVL-CHAVL = DIR_ENTRY+0(2).
*   APPEND L_S_CHAVL TO L_T_CHAVL.
**  L_S_CHAVL-CHANM = '0CALMONTH'.
**  L_S_CHAVL-CHAVL = DIR_ENTRY+3(6).
**  APPEND L_S_CHAVL TO L_T_CHAVL.
* set mime-type
  L_S_CONTENT_INFO-MIMETYPE = 'application/pdf'.
  L_S_CONTENT_INFO-FILE_NAME = FILENAME.
  L_S_CONTENT_INFO-FILE_SIZE = L_FILELENGTH.
* set name and title
  NAME = DIR_ENTRY.
  CLEAR L_T_RETURN.
* upload document
  CALL FUNCTION 'RSOD_DOC_TRAN_CHANGE'
    EXPORTING
      I_INFOPROV           = INF_PRV
      I_QUERY              = INF_QURY
      I_KYFNM              = KYF_FIG
      I_DESCRIPTION        = DESCR
      I_NAME               = NAME
      I_LANGU              = SY-LANGU
      I_OVERWRITE_MODE     = IF_RSOD_CONST=>MODE_REPLACE_PHIO
  "IF_RSOD_CONST=>mode_new_phio
      I_WITH_CONTENT      = 'X'
      I_S_CONTENT_INFO    = L_S_CONTENT_INFO
*   I_WITH_URL           =
*   I_URL                =
*   I_COPY_URL_CONTENT   =
  IMPORTING
      E_NAME              =
      E_S_RETURN          = L_T_RETURN
  TABLES
      I_T_CHAVL           = L_T_CHAVL
      I_T_FILE_CONTENT_ASCII = L_T_DATA_TAB_ASC
      I_T_FILE_CONTENT_BINARY = L_T_DATA_TAB_BIN.
  IF L_T_RETURN-TYPE = 'E' OR

```

```

L_T_RETURN-TYPE = 'W' OR
L_T_RETURN-TYPE = 'A'.
* error
WRITE: / DIR_ENTRY(25), TEXT-T16. " L_T_RETURN-TYPE,L_T_RETURN-
ID,L_T_RETURN-NUMBER.
ELSE.
* successfully loaded
WRITE: / DIR_ENTRY(25), TEXT-T17.
ENDIF.
ENDIF.
ENDLOOP.
ENDIF.
*-----
--
*-----PROGRAM FOR META DATA-----
*-----
--
START-OF-SELECTION.
IF R3 = 'X' AND R4 = 'X'.
IF OBJ_TYP = ' ' OR OBJ_NAM = ' ' .
MESSAGE 'Specify an object type & object name' TYPE 'E'.
ENDIF.
LOOP AT DIR_TAB INTO DIR_ENTRY.
LEN = STRLEN( DIR_ENTRY ).
LEN = LEN - 4.
L_TYP = DIR_ENTRY+LEN(4).
CLEAR LEN.
IF L_TYP = '.doc'.
* Build filename
TRANSLATE DIR_ENTRY TO UPPER CASE.
CLEAR: FILENAME.
CONCATENATE P_PATH '\ ' DIR_ENTRY INTO FILENAME.
* call upload
CALL FUNCTION 'GUI_UPLOAD'
EXPORTING
FILENAME = FILENAME
FILETYPE = 'BIN'
* HAS_FIELD_SEPARATOR = ' '
* HEADER_LENGTH = 0
* READ_BY_LINE = 'X'
* DAT_MODE = ' '
IMPORTING
FILELENGTH = L_FILELENGTH
TABLES
DATA_TAB = L_T_DATA_TAB_BIN
EXCEPTIONS
FILE_OPEN_ERROR = 1
FILE_READ_ERROR = 2
NO_BATCH = 3
GUI_REFUSE_FILETRANSFER = 4
INVALID_TYPE = 5
NO_AUTHORITY = 6
UNKNOWN_ERROR = 7
BAD_DATA_FORMAT = 8
HEADER_NOT_ALLOWED = 9
SEPARATOR_NOT_ALLOWED = 10

```

```

        HEADER_TOO_LONG           = 11
        UNKNOWN_DP_ERROR         = 12
        ACCESS_DENIED            = 13
        DP_OUT_OF_MEMORY         = 14
        DISK_FULL                 = 15
        DP_TIMEOUT                = 16
        OTHERS                    = 17.
    IF SY-SUBRC <> 0.
        WRITE: / TEXT-002, SY-SUBRC, DIR_ENTRY. "Error in uploading File
        EXIT.
    ENDIF.
* fill assignments for material
*   LEN = STRLEN( DIR_ENTRY ) - 4.
*   REFRESH L_T_CHAVL.
*   L_S_CHAVL-CHANM = '0MATERIAL'.
*   L_S_CHAVL-CHAVL = DIR_ENTRY+0(LEN).
*   CALL FUNCTION 'CONVERSION_EXIT_MATN1_INPUT'
*     EXPORTING
*       INPUT           = L_S_CHAVL-CHAVL
*     IMPORTING
*       OUTPUT          = L_S_CHAVL-CHAVL
*     EXCEPTIONS
*       LENGTH_ERROR = 1
*       OTHERS       = 2.
*   APPEND L_S_CHAVL TO L_T_CHAVL.
* set mime-type
*   L_S_CONTENT_INFO-MIMETYPE = 'application/msword'.
*   L_S_CONTENT_INFO-FILE_NAME = DIR_ENTRY.
*   L_S_CONTENT_INFO-FILE_SIZE = L_FILELENGTH.
* set name and title
*   NAME = DIR_ENTRY.
*   CLEAR L_T_RETURN.
* upload document
*   CALL FUNCTION 'RSOD_DOC_META_CHANGE'
*     EXPORTING
*       I_TLOGO           = OBJ_TYP
*       I_OBJNM           = OBJ_NAM           "L_OBJNM
*     "'0MATERIAL' "L_S_CHAVL-CHAVL
*     I_IS_DEFAULT       =
*     I_DATA_MODEL_TEXT  =
*       I_DESCRIPTION    = DESCR
*       I_NAME           = NAME
*       I_LANGU          = SY-LANGU
*       I_OVERWRITE_MODE = IF_RSOD_CONST=>MODE_REPLACE_PHIO
*       I_WITH_CONTENT   = 'X'
*       I_S_CONTENT_INFO = L_S_CONTENT_INFO
*     I_WITH_URL        =
*     I_URL              =
*     I_COPY_URL_CONTENT =
*     IMPORTING
*     E_NAME            =
*       E_S_RETURN      = L_T_RETURN
*     TABLES
*       I_T_FILE_CONTENT_ASCII = L_T_DATA_TAB_ASC
*       I_T_FILE_CONTENT_BINARY = L_T_DATA_TAB_BIN.
*   IF L_T_RETURN-TYPE = 'E' OR

```

```

L_T_RETURN-TYPE = 'W' OR
L_T_RETURN-TYPE = 'A'.
* error
WRITE: / DIR_ENTRY(25), TEXT-T16. "L_T_RETURN-TYPE, L_T_RETURN-ID,
L_T_RETURN-NUMBER.
ELSE.
* successfully loaded
WRITE: / DIR_ENTRY(25), TEXT-T17.
ENDIF.
ENDIF.
ENDLOOP.
ENDIF.
IF R3 = 'X' AND R5 = 'X'.
IF OBJ_TYP = ' ' OR OBJ_NAM = ' ' .
MESSAGE 'Specify an object type & object name' TYPE 'E'.
ENDIF.
LOOP AT DIR_TAB INTO DIR_ENTRY.
LEN = STRLEN( DIR_ENTRY ).
LEN = LEN - 4.
L_TYP = DIR_ENTRY+LEN(4).
CLEAR LEN.
IF L_TYP = '.pdf'.
* Build filename
TRANSLATE DIR_ENTRY TO UPPER CASE.
CLEAR: FILENAME.
CONCATENATE P_PATH '\ ' DIR_ENTRY INTO FILENAME.
* call upload
CALL FUNCTION 'GUI_UPLOAD'
EXPORTING
FILENAME = FILENAME
FILETYPE = 'BIN'
* HAS_FIELD_SEPARATOR = ' '
* HEADER_LENGTH = 0
* READ_BY_LINE = 'X'
* DAT_MODE = ' '
IMPORTING
FILELENGTH = L_FILELENGTH
TABLES
DATA_TAB = L_T_DATA_TAB_BIN
EXCEPTIONS
FILE_OPEN_ERROR = 1
FILE_READ_ERROR = 2
NO_BATCH = 3
GUI_REFUSE_FILETRANSFER = 4
INVALID_TYPE = 5
NO_AUTHORITY = 6
UNKNOWN_ERROR = 7
BAD_DATA_FORMAT = 8
HEADER_NOT_ALLOWED = 9
SEPARATOR_NOT_ALLOWED = 10
HEADER_TOO_LONG = 11
UNKNOWN_DP_ERROR = 12
ACCESS_DENIED = 13
DP_OUT_OF_MEMORY = 14
DISK_FULL = 15
DP_TIMEOUT = 16

```

```

        OTHERS                                = 17.
    IF SY-SUBRC <> 0.
        WRITE: / TEXT-002, SY-SUBRC, DIR_ENTRY. "Error in uploading File
        EXIT.
    ENDIF.
* fill assignments for material
*   LEN = STRLEN( DIR_ENTRY ) - 4.
*   REFRESH L_T_CHAVL.
*   L_S_CHAVL-CHANM = '0MATERIAL'.
*   L_S_CHAVL-CHAVL = DIR_ENTRY+0(LEN).
*   CALL FUNCTION 'CONVERSION_EXIT_MATN1_INPUT'
*     EXPORTING
*       INPUT          = L_S_CHAVL-CHAVL
*     IMPORTING
*       OUTPUT         = L_S_CHAVL-CHAVL
*     EXCEPTIONS
*       LENGTH_ERROR = 1
*       OTHERS        = 2.
*   APPEND L_S_CHAVL TO L_T_CHAVL.
* set mime-type
*   L_S_CONTENT_INFO-MIMETYPE = 'application/pdf'.
*   L_S_CONTENT_INFO-FILE_NAME = DIR_ENTRY.
*   L_S_CONTENT_INFO-FILE_SIZE = L_FILELENGTH.
* set name and title
*   NAME = DIR_ENTRY.
*   CLEAR L_T_RETURN.
* upload document
*   CALL FUNCTION 'RSOD_DOC_META_CHANGE'
*     EXPORTING
*       I_TLOGO                = OBJ_TYP
*       I_OBJNM                 = OBJ_NAM                "L_OBJNM
*       "'0MATERIAL' "L_S_CHAVL-CHAVL
*     I_IS_DEFAULT              =
*     I_DATA_MODEL_TEXT         =
*       I_DESCRIPTION           = DESCR
*       I_NAME                  = NAME
*       I_LANGU                 = SY-LANGU
*       I_OVERWRITE_MODE        = IF_RSOD_CONST=>MODE_REPLACE_PHIO
*       I_WITH_CONTENT          = 'X'
*       I_S_CONTENT_INFO        = L_S_CONTENT_INFO
*     I_WITH_URL                =
*     I_URL                     =
*     I_COPY_URL_CONTENT        =
*     IMPORTING
*       E_NAME                   =
*       E_S_RETURN               = L_T_RETURN
*     TABLES
*       I_T_FILE_CONTENT_ASCII   = L_T_DATA_TAB_ASC
*       I_T_FILE_CONTENT_BINARY  = L_T_DATA_TAB_BIN.
*     IF L_T_RETURN-TYPE = 'E' OR
*       L_T_RETURN-TYPE = 'W' OR
*       L_T_RETURN-TYPE = 'A'.
* error
*   WRITE: / DIR_ENTRY(25), TEXT-T16. "L_T_RETURN-TYPE, L_T_RETURN-ID,
*   L_T_RETURN-NUMBER.
*   ELSE.

```

```
* successfully loaded
  WRITE: / DIR_ENTRY(25), TEXT-T17.
  ENDIF.
ENDIF.
ENDLOOP.
ENDIF.
```


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