

Send External Mail with attachment

Created by Chidanand Chauhan, last modified by Matthew Billingham on Dec 17, 2014

Note: the method described here is now obsolete. To send mail the CL_BCS set of classes should be used.

Objective: Below Program will demonstrate how to send an external mail with attachment. It will automatically ask for the Receiver Email ID. Once the user enters the Receiver User Id it will send the attachment to the receiver email id.

Below is the code.

Error rendering macro 'code': Invalid value specified for parameter 'com.atlassian.confluence.ext.code.render.InvalidValueException'

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*&-----*
*& Report Z7CC_SEND_MAIL_IN_ALV_FORMAT
*&
*&-----*
*& Developer name: Chidanand Chauhan
*& Desc:Send external mail with attachment
*&-----*
REPORT Z7CC_SEND_MAIL_IN_ALV_FORMAT.
TABLES: EKKO.
PARAMETERS: P_EMAIL TYPE SOMLRECI1-RECEIVER
DEFAULT 'test@sapdev.co.uk'.
TYPES: BEGIN OF T_EKPO,
EBELN TYPE EKPO-EBELN,
EBELP TYPE EKPO-EBELP,
AEDAT TYPE EKPO-AEDAT,
MATNR TYPE EKPO-MATNR,
END OF T_EKPO.
DATA: IT_EKPO TYPE STANDARD TABLE OF T_EKPO INITIAL SIZE 0,
WA_EKPO TYPE T_EKPO.
TYPES: BEGIN OF T_CHAREKPO,
EBELN(10) TYPE C,
EBELP(5) TYPE C,
AEDAT(8) TYPE C,
MATNR(18) TYPE C,
END OF T_CHAREKPO.
DATA: WA_CHAREKPO TYPE T_CHAREKPO.
DATA: IT_MESSAGE TYPE STANDARD TABLE OF SOLISTI1 INITIAL SIZE 0
WITH HEADER LINE.
DATA: IT_ATTACH TYPE STANDARD TABLE OF SOLISTI1 INITIAL SIZE 0
WITH HEADER LINE.
DATA: T_PACKING_LIST LIKE SOPCKLSTI1 OCCURS 0 WITH HEADER LINE,
T_CONTENTS LIKE SOLISTI1 OCCURS 0 WITH HEADER LINE,
T_RECEIVERS LIKE SOMLRECI1 OCCURS 0 WITH HEADER LINE,
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T_ATTACHMENT LIKE SOLISTI1 OCCURS 0 WITH HEADER LINE,
T_OBJECT_HEADER LIKE SOLISTI1 OCCURS 0 WITH HEADER LINE,
W_CNT TYPE I,
W_SENT_ALL(1) TYPE C,
W_DOC_DATA LIKE SODOCCHGI1,
GD_ERROR TYPE SY-SUBRC,
GD_RECIEVER TYPE SY-SUBRC.
*****
*START_OF_SELECTION
START-OF-SELECTION.
* Retrieve sample data from table ekpo
  PERFORM DATA_RETRIEVAL.
* Populate table with details to be entered into .xls file
  PERFORM BUILD_XLS_DATA_TABLE.
*****
*END-OF-SELECTION
END-OF-SELECTION.
* Populate message body text
  PERFORM POPULATE_EMAIL_MESSAGE_BODY.
* Send file by email as .xls spreadsheet
  PERFORM SEND_FILE_AS_EMAIL_ATTACHMENT
    TABLES IT_MESSAGE
    IT_ATTACH
    USING P_EMAIL
    'Example .xls documnet attachment'
    'XLS'
    'filename'
    ,
    ,
    ,
    ,
    ,
    CHANGING GD_ERROR
    GD_RECIEVER.
* Instructs mail send program for SAPCONNECT to send email(rsconn01)
  PERFORM INITIATE_MAIL_EXECUTE_PROGRAM.
*&-----*
*& Form DATA_RETRIEVAL
*&-----*
* Retrieve data form EKPO table and populate itab it_ekko
*-----*
FORM DATA_RETRIEVAL.
  SELECT EBELN EBELP AEDAT MATNR
    UP TO 10 ROWS
    FROM EKPO
    INTO TABLE IT_EKPO.
ENDFORM. " DATA_RETRIEVAL
*&-----*
*& Form BUILD_XLS_DATA_TABLE
*&-----*
* Build data table for .xls document

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*-----*
FORM BUILD_XLS_DATA_TABLE.
  CONSTANTS: CON_CRET TYPE X VALUE '0D', "OK for non Unicode
             CON_TAB TYPE X VALUE '09'. "OK for non Unicode
*If you have Unicode check active in program attributes then you will
*need to declare constants as follows
*class cl_abap_char_utilities definition load.
*constants:
* con_tab type c value cl_abap_char_utilities=>HORIZONTAL_TAB,
* con_cret type c value cl_abap_char_utilities=>CR_LF.
  CONCATENATE 'EBELN' 'EBELP' 'AEDAT' 'MATNR'
  INTO IT_ATTACH SEPARATED BY ''.
  CONCATENATE '' IT_ATTACH INTO IT_ATTACH.
  APPEND IT_ATTACH.
  LOOP AT IT_EKPO INTO WA_CHAREKPO.
    CONCATENATE WA_CHAREKPO-EBELN WA_CHAREKPO-EBELP
    WA_CHAREKPO-AEDAT WA_CHAREKPO-MATNR
    INTO IT_ATTACH SEPARATED BY ''.
    CONCATENATE '' IT_ATTACH INTO IT_ATTACH.
    APPEND IT_ATTACH.
  ENDLOOP.
ENDFORM. " BUILD_XLS_DATA_TABLE
*&-----*
*& Form SEND_FILE_AS_EMAIL_ATTACHMENT
*&-----*
* Send email
*-----*
FORM SEND_FILE_AS_EMAIL_ATTACHMENT TABLES PIT_MESSAGE
PIT_ATTACH
USING P_EMAIL
P_MTITLE
P_FORMAT
P_FILENAME
P_ATTDESCRIPTION
P_SENDER_ADDRESS
P_SENDER_ADDRES_TYPE
CHANGING P_ERROR
P_RECIEVER.
  DATA: LD_ERROR TYPE SY-SUBRC,
         LD_RECIEVER TYPE SY-SUBRC,
         LD_MTITLE LIKE SODOCCHGI1-OBJ_DESCR,
         LD_EMAIL LIKE SOMLRECI1-RECEIVER,
         LD_FORMAT TYPE SO_OBJ_TP ,
         LD_ATTDESCRIPTION TYPE SO_OBJ_NAM ,
         LD_ATTFILENAME TYPE SO_OBJ_DES ,
         LD_SENDER_ADDRESS LIKE SOEXTRECI1-RECEIVER,
         LD_SENDER_ADDRESS_TYPE LIKE SOEXTRECI1-ADR_TYP,
         LD_RECEIVER LIKE SY-SUBRC.
  LD_EMAIL = P_EMAIL.

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LD_MTITLE = P_MTITLE.
LD_FORMAT = P_FORMAT.
LD_ATTDESCRIPTION = P_ATTDESCRIPTION.
LD_ATTFILENAME = P_FILENAME.
LD_SENDER_ADDRESS = P_SENDER_ADDRESS.
LD_SENDER_ADDRESS_TYPE = P_SENDER_ADDRES_TYPE.
* Fill the document data.
W_DOC_DATA-DOC_SIZE = 1.
* Populate the subject/generic message attributes
W_DOC_DATA-OBJ_LANGU = SY-LANGU.
W_DOC_DATA-OBJ_NAME = 'SAPRPT'.
W_DOC_DATA-OBJ_DESCR = LD_MTITLE .
W_DOC_DATA-SENSITIVITY = 'F'.
* Fill the document data and get size of attachment
CLEAR W_DOC_DATA.
READ TABLE IT_ATTACH INDEX W_CNT.
W_DOC_DATA-DOC_SIZE =
( W_CNT - 1 ) * 255 + STRLEN( IT_ATTACH ).
W_DOC_DATA-OBJ_LANGU = SY-LANGU.
W_DOC_DATA-OBJ_NAME = 'SAPRPT'.
W_DOC_DATA-OBJ_DESCR = LD_MTITLE.
W_DOC_DATA-SENSITIVITY = 'F'.
CLEAR T_ATTACHMENT.
REFRESH T_ATTACHMENT.
T_ATTACHMENT[] = PIT_ATTACH[].
* Describe the body of the message
CLEAR T_PACKING_LIST.
REFRESH T_PACKING_LIST.
T_PACKING_LIST-TRANSF_BIN = SPACE.
T_PACKING_LIST-HEAD_START = 1.
T_PACKING_LIST-HEAD_NUM = 0.
T_PACKING_LIST-BODY_START = 1.
DESCRIBE TABLE IT_MESSAGE LINES T_PACKING_LIST-BODY_NUM.
T_PACKING_LIST-DOC_TYPE = 'RAW'.
APPEND T_PACKING_LIST.
* Create attachment notification
T_PACKING_LIST-TRANSF_BIN = 'X'.
T_PACKING_LIST-HEAD_START = 1.
T_PACKING_LIST-HEAD_NUM = 1.
T_PACKING_LIST-BODY_START = 1.
DESCRIBE TABLE T_ATTACHMENT LINES T_PACKING_LIST-BODY_NUM.
T_PACKING_LIST-DOC_TYPE = LD_FORMAT.
T_PACKING_LIST-OBJ_DESCR = LD_ATTDESCRIPTION.
T_PACKING_LIST-OBJ_NAME = LD_ATTFILENAME.
T_PACKING_LIST-DOC_SIZE = T_PACKING_LIST-BODY_NUM * 255.
APPEND T_PACKING_LIST.
* Add the recipients email address
CLEAR T_RECEIVERS.
REFRESH T_RECEIVERS.

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T_RECEIVERS-RECEIVER = LD_EMAIL.
T_RECEIVERS-REC_TYPE = 'U'.
T_RECEIVERS-COM_TYPE = 'INT'.
T_RECEIVERS-NOTIF_DEL = 'X'.
T_RECEIVERS-NOTIF_NDEL = 'X'.
APPEND T_RECEIVERS.
CALL FUNCTION 'SO_DOCUMENT_SEND_API1'
  EXPORTING
    DOCUMENT_DATA          = W_DOC_DATA
    PUT_IN_OUTBOX          = 'X'
    SENDER_ADDRESS         = LD_SENDER_ADDRESS
    SENDER_ADDRESS_TYPE    = LD_SENDER_ADDRESS_TYPE
    COMMIT_WORK            = 'X'
  IMPORTING
    SENT_TO_ALL            = W_SENT_ALL
  TABLES
    PACKING_LIST           = T_PACKING_LIST
    CONTENTS_BIN           = T_ATTACHMENT
    CONTENTS_TXT           = IT_MESSAGE
    RECEIVERS              = T_RECEIVERS
  EXCEPTIONS
    TOO_MANY_RECEIVERS     = 1
    DOCUMENT_NOT_SENT      = 2
    DOCUMENT_TYPE_NOT_EXIST = 3
    OPERATION_NO_AUTHORIZATION = 4
    PARAMETER_ERROR        = 5
    X_ERROR                = 6
    ENQUEUE_ERROR          = 7
    OTHERS                  = 8.
* Populate zerror return code
LD_ERROR = SY-SUBRC.
* Populate zreceiver return code
LOOP AT T_RECEIVERS.
  LD_RECEIVER = T_RECEIVERS-RETRN_CODE.
ENDLOOP.
ENDFORM.                "SEND_FILE_AS_EMAIL_ATTACHMENT
*&-----*
*& Form INITIATE_MAIL_EXECUTE_PROGRAM
*&-----*
* Instructs mail send program for SAPCONNECT to send email.
*-----*
FORM INITIATE_MAIL_EXECUTE_PROGRAM.
  WAIT UP TO 2 SECONDS.
  SUBMIT RSCONN01 WITH MODE = 'INT'
  WITH OUTPUT = 'X'
  AND RETURN.
ENDFORM. " INITIATE_MAIL_EXECUTE_PROGRAM
*&-----*
*& Form POPULATE_EMAIL_MESSAGE_BODY

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*&-----*
* Populate message body text
*-----*
FORM POPULATE_EMAIL_MESSAGE_BODY.
  REFRESH IT_MESSAGE.
  IT_MESSAGE = 'Please find attached a list test ekpo records'.
  APPEND IT_MESSAGE.
ENDFORM. " POPULATE_EMAIL_MESSAGE_BODY
```

Below is the screenshot when the user execute this Program it will ask for the User inputs the receiver email ID.



No labels

1 Comment



Unknown User (ygyscar)

Hi chidanand,

thanks for posting this Information,

Can you please let us know what external files or documents are you reffering about, is it the files sored through DMS in Purchase order,
or only those files attached through GOS,

we have a requirement to mail PO to the Vendor and the documents attached to that PO (through DMS) should also go as an **Attachment** along with the PO to the Vendor.

thanks and regards

Priya