

SDN Community Contribution

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Applies To:

WAS 6.40

Summary

Code sample for emailing ABAP report list output as HTML email. Note this doesn't support ALV GRID reports. This has been implemented as a Function Module interface.

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The CODE

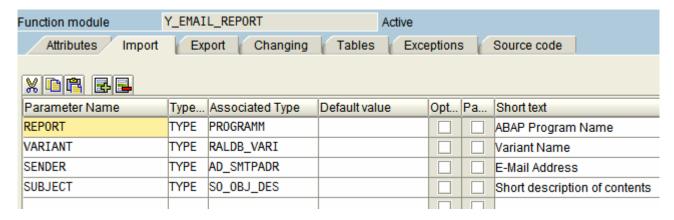
- As a first step, create a Function group (if you are not familiar with creating function modules and function groups check this link http://help.sap.com/saphelp_nw04/helpdata/en/26/64f623fa8911d386e70000e82011b8/frameset.htm)
- 2. Copy paste the following code in the top include (global data) of the function group

```
TYPE REF TO c1_bcs.
DATA: send_request
 DATA: text
                          TYPE bcsy_text.
 DATA: document
                          TYPE REF TO cl_document_bcs.
 DATA: sender_id
                             TYPE REF TO if_sender_bcs.
 DATA: recipient
                          TYPE REF TO if_recipient_bcs.
 DATA: bcs_exception
                          TYPE REF TO cx_bcs.
 DATA: sent_to_all
                          TYPE os_boolean.
 DATA: conlength TYPE i ,
       conlengths TYPE so_obj_len ,
       result_content TYPE string .
                                w3param-cont_len ,
 DATA: content_length
                          TYPE
       content_type
                          TYPE
                                w3param-cont_type,
       return_code TYPE w3param-ret_code .
 DATA: listobject TYPE TABLE OF abaplist.
 DATA: html_wa TYPE w3html.
 DATA: html TYPE STANDARD TABLE OF w3html .
 DATA: wa_rec TYPE ad_smtpadr .
 DATA: bcs_message TYPE string .
 DATA: tmp_str TYPE string .
 DATA: prog TYPE programm,
       var TYPE raldb vari .
```

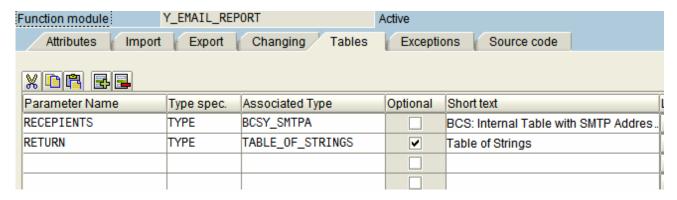


3. Create the Function Module with parameters as shown in the following screen shots.

Import parameters:



Tables:





4. Copy paste the following code in the Source code section of the Function Module.

```
FUNCTION y_email_report.
*"*"Local Interface:
*" IMPORTING
       REFERENCE(REPORT) TYPE PROGRAMM
       REFERENCE(VARIANT) TYPE RALDB_VARI
REFERENCE(SENDER) TYPE AD_SMTPADR
*" REFERENCE (SENDER) TYPE SO_OBJ_DES
* "
    RECEPIENTS TYPE BCSY_SMTPA
RETURN TYPE TABLE_OF_STRINGS OPTIONAL
* "
  IF NOT recepients[] IS INITIAL .
    CLEAR: var, prog .
    MOVE: report TO prog ,
          variant TO var
    TRANSLATE prog TO UPPER CASE .
    TRANSLATE var TO UPPER CASE .
    SUBMIT (prog) USING SELECTION-SET var EXPORTING LIST TO MEMORY AND RETURN.
    CLEAR: listobject , html .
    REFRESH : listobject, html .
    CALL FUNCTION 'LIST_FROM_MEMORY'
      TABLES
        listobject = listobject.
    CALL FUNCTION 'WWW_HTML_FROM_LISTOBJECT'
      EXPORTING
        report_name = prog
      TABLES
                    = html
        html
        listobject = listobject.
    CLEAR tmp_str .
    CLEAR : html_wa .
```



```
LOOP AT html INTO html_wa .
  CONCATENATE tmp_str html_wa INTO tmp_str.
ENDLOOP .
CLEAR: conlength, conlengths .
conlength = STRLEN( tmp_str ) .
conlengths = conlength .
TRY.
    CLEAR send_request .
    send_request = cl_bcs=>create_persistent( ).
    CLEAR document .
    document = cl_document_bcs=>create_document(
                    i_type = 'HTM'
                    i_text = html
i_length = conlengths
                    i_subject = subject ).
  add document to send request
    CALL METHOD send_request->set_document( document ).
    CLEAR sender_id .
    sender_id = cl_cam_address_bcs=>create_internet_address( sender ).
    CALL METHOD send_request->set_sender
      EXPORTING
        i_sender = sender_id.
    CLEAR wa_rec .
    LOOP AT recepients INTO wa_rec .
      CLEAR recipient .
      recipient = cl_cam_address_bcs=>create_internet_address(
  add recipient with its respective attributes to send request
      CALL METHOD send_request->add_recipient
        EXPORTING
          i_recipient = recipient
          i_{express} = 'X'.
```



```
ENDLOOP .
     CALL METHOD send_request->set_status_attributes
       EXPORTING
         i_requested_status = 'E'
         i_status_mail = 'E'.
     CALL METHOD send_request->set_send_immediately('X').
    ----- send document
     CALL METHOD send_request->send(
       EXPORTING
         i_with_error_screen = 'X'
       RECEIVING
         result
                           = sent_to_all ).
     IF sent_to_all = 'X'.
       APPEND 'Mail sent successfully ' TO return .
     ENDIF.
     COMMIT WORK.
   CATCH cx_bcs INTO bcs_exception.
     bcs_message = bcs_exception->get_text( ).
     APPEND bcs_message TO return .
     EXIT.
 ENDTRY.
ELSE .
 APPEND 'Specify email address for sending' TO return .
ENDIF .
```

ENDFUNCTION.



5. Tips on passing parameters:

Import Parameters:

Import parameters	Value
REPORT	yfr0101a
VARIANT	testvar
SENDER	raja@xxxx.com
SUBJECT	test

Tables parameter:

Receipients table:



Author Bio

Durairaj Athavan Raja works as Business System Analyst with Atos Origin Middle East and has been involved in SAP development for over 8 years. He is a big fan of SDN.