

SDN Community Contribution

(This is not an official SAP document.)

Disclaimer & Liability Notice

This document may discuss sample coding or other information that does not include SAP official interfaces and therefore is not supported by SAP. Changes made based on this information are not supported and can be overwritten during an upgrade.

SAP will not be held liable for any damages caused by using or misusing the information, code or methods suggested in this document, and anyone using these methods does so at his/her own risk.

SAP offers no guarantees and assumes no responsibility or liability of any type with respect to the content of this technical article or code sample, including any liability resulting from incompatibility between the content within this document and the materials and services offered by SAP. You agree that you will not hold, or seek to hold, SAP responsible or liable with respect to the content of this document.

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.

By: [Durai Raj Athavan Raja](#)

Company: Atos Origin Middle East

Date: 4th April 2006

The CODE

1. 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

```
DATA: send_request      TYPE REF TO c1_bcs.
DATA: text              TYPE bcsy_text.
DATA: document         TYPE REF TO c1_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 .
DATA: content_length  TYPE w3param-cont_len ,
      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:

Function module: Y_EMAIL_REPORT Active

Attributes Import Export Changing Tables Exceptions Source code

Parameter Name	Type...	Associated Type	Default value	Opt...	Pa...	Short text
REPORT	TYPE	PROGRAMM		<input type="checkbox"/>	<input type="checkbox"/>	ABAP Program Name
VARIANT	TYPE	RALDB_VARI		<input type="checkbox"/>	<input type="checkbox"/>	Variant Name
SENDER	TYPE	AD_SMTPADR		<input type="checkbox"/>	<input type="checkbox"/>	E-Mail Address
SUBJECT	TYPE	SO_OBJ_DES		<input type="checkbox"/>	<input type="checkbox"/>	Short description of contents

Tables:

Function module: Y_EMAIL_REPORT Active

Attributes Import Export Changing Tables Exceptions Source code

Parameter Name	Type spec.	Associated Type	Optional	Short text
RECEIPIENTS	TYPE	BCSY_SMTPA	<input type="checkbox"/>	BCS: Internal Table with SMTP Address..
RETURN	TYPE	TABLE_OF_STRINGS	<input checked="" type="checkbox"/>	Table of Strings
			<input type="checkbox"/>	
			<input type="checkbox"/>	

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(SUBJECT) TYPE  SO_OBJ_DES
*  TABLES
*    RECEIPTS TYPE  BCSY_SMTPA
*    RETURN TYPE  TABLE_OF_STRINGS OPTIONAL
*-----

IF NOT recipients[] 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 receipients INTO wa_rec .
    CLEAR recipient .

    recipient = cl_cam_address_bcs=>create_internet_address(
      wa_rec ).

*   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:

user3.google.com
user2@domain.com
user@domain.com

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.