

To Check the Files/Reports in Application Server and Trigger Mail Alerts



Applies to:

SAP BW 3.0b, SAP BW 3.5, Will also work on SAP BI 7

For more information, visit the [Business Intelligence homepage](#)

Summary

Sometimes we need to check the files in Application server and based on that you want to get the mail, i.e. if the files are not there in that folder/path then you wanted to get a mail alert.

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Scope of the Z_FILE_CHECK Program:

This is the custom program and it will check the give input files in the application server in particular folder/path and if the files are not found in that folder/path then you will get a mail, so based on that we will take further actions.

Why we need this

Eg: I have some reports in BW and using RSCRM_BAPI Tcode, I'm downloading the reports into one particular folder/path in BW application server. From there some other system will read that files/reports. So every day the job will run in background i.e. once RSCRM_BAPI completes, then this program will run, and if files/reports not found in that folder/path, then a mail notification will be sent to the mentioned mail id.

So it becomes easier to check whether the file/reports are executing and downloading in that folder/path. If I get a mail then I need to take further action.

Note: At the end of the day the files will be deleted in that Folder/Path using UNIX script. (My BW system is running on UNIX.). From BW application server folder/path, the SQL server will take/read the file/report, after that the file/report should be deleted using UNIX Script, else, the next day we will not be able to trace whether the file/report is downloaded using RSCRM_BAPI.

Note: The folder/path names may differ; here I create my own folder/path in BW application server.

Code

```
REPORT z_file_check.

TABLES:filepath,somlreci1.

TYPES:BEGIN OF ts_select,
       value TYPE pathintern,
       flag TYPE c,
       END OF ts_select.

TYPES:BEGIN OF ts_dirlist1,
       name TYPE epsfili-name,
       size TYPE epsfili-size,
       rc TYPE epsfili-rc,
       flag TYPE char1,
       END OF ts_dirlist1.

DATA:it_dirlist1 TYPE STANDARD TABLE OF ts_dirlist1,
     it_objtxt TYPE STANDARD TABLE OF solisti1,
     it_objpack TYPE STANDARD TABLE OF sopcklsti1,
     it_reclist TYPE STANDARD TABLE OF somlreci1,
     it_objbin TYPE STANDARD TABLE OF solisti1,
     it_dirlist TYPE STANDARD TABLE OF epsfili,
     it_select TYPE STANDARD TABLE OF ts_select.

DATA : is_doc_chng TYPE sodocchg1,
       is_objtxt TYPE solisti1,
       is_objpack TYPE sopcklsti1,
       is_objbin TYPE solisti1,
       is_reclist TYPE somlreci1,
       is_select TYPE ts_select,
       is_dirlist TYPE epsfili,
       is_dirlist1 TYPE ts_dirlist1.
```

```

DATA:w_tabix      TYPE sy-tabix,
      w_dirname   TYPE epsf-epsdirnam,
      w_filename  TYPE epsf-epsfilnam ,
      w_lines_tx  TYPE i,
      w_text      TYPE char255.

*&-----*
*&          S E L E C T I O N   S C R E E N                               *
*&-----*
SELECTION-SCREEN: BEGIN OF BLOCK b1 WITH FRAME TITLE text-001.
PARAMETERS:      p_file LIKE rlgrap-filename .
SELECT-OPTIONS: s_file FOR filepath-pathintern NO INTERVALS .
SELECT-OPTIONS:s_mail FOR somlreci1-receiver NO INTERVALS.
PARAMETERS:      p_date TYPE sy-datum.
SELECTION-SCREEN: END OF BLOCK b1.
AT SELECTION-SCREEN ON VALUE-REQUEST FOR p_file.
  PERFORM sub_get_filename_app1 USING p_file.
START-OF-SELECTION.
  PERFORM sub_populate_data.
*&-----*
*&          Form sub_populate_data                                       *
*&-----*
*          text
*-----*
* --> p1          text
* <-- p2          text
*-----*
FORM sub_populate_data .
  w_dirname = p_file.
  CALL FUNCTION 'EPS_GET_DIRECTORY_LISTING'
    EXPORTING
*      dir_name          = p_file
      dir_name          = w_dirname
    TABLES
      dir_list          = it_dirlist
    EXCEPTIONS
      invalid_eps_subdir = 1
      sapgparam_failed  = 2
      build_directory_failed = 3
      no_authorization  = 4
      read_directory_failed = 5
      too_many_read_errors = 6
      empty_directory_list = 7.

LOOP AT s_file.
  is_select-value = s_file-low.
  APPEND is_select TO it_select.
  CLEAR is_select.
ENDLOOP.

APPEND LINES OF it_dirlist[] TO it_dirlist1[].
LOOP AT it_dirlist1 INTO is_dirlist1.
  TRANSLATE is_dirlist1-name TO UPPER CASE.
  MODIFY it_dirlist1 FROM is_dirlist1 TRANSPORTING name.
ENDLOOP.

```

```

SORT it_dirlist1 BY name.

LOOP AT it_select INTO is_select.
  w_tabix = sy-tabix.
  READ TABLE it_dirlist1 INTO is_dirlist1 WITH KEY name = is_select-value
                                     BINARY SEARCH.

  IF sy-subrc = 0.
    is_select-flag = 'X'.
  ENDIF.
  MODIFY it_select FROM is_select INDEX w_tabix TRANSPORTING flag.

ENDLOOP.
DATA:it_select1 TYPE TABLE OF ts_select.
DATA:is_select1 TYPE ts_select.
it_select1[] = it_select[].
delete it_select where flag = 'X'.
LOOP AT it_select INTO is_select.
  IF is_select-flag NE 'X'.
    is_doc_chng-obj_name = 'MAIL'.
    is_doc_chng-obj_descr = 'Problem while downloading the report in BW Folder'.
** main text
    CLEAR w_text.
    LOOP AT it_select1 INTO is_select1 WHERE flag NE 'X'.

      CONCATENATE 'Problem while downloading the report in BW Application Server
Folder'
                  p_file 'FILE'
                  is_select1-value INTO w_text SEPARATED BY space.

      is_objtxt-line = w_text.
*      is_objtxt-line = is_select-name.
      APPEND is_objtxt TO it_objtxt.
    ENDLOOP.
    is_objtxt-line = 'This is an automatically generated mail. Please do not reply
to it.'.
    APPEND is_objtxt TO it_objtxt.

    is_objtxt-line = space.
    APPEND is_objtxt TO it_objtxt.

    DESCRIBE TABLE it_objtxt LINES w_lines_tx.
    READ TABLE it_objtxt INTO is_objtxt INDEX w_lines_tx.
    is_doc_chng-doc_size = ( w_lines_tx - 1 ) * 255 + STRLEN( is_objtxt ).
    CLEAR is_objpack-transf_bin.
    is_objpack-head_start = 1.
    is_objpack-head_num = 0.
    is_objpack-body_start = 1.
    is_objpack-body_num = w_lines_tx.
    is_objpack-doc_type = 'RAW'.
    APPEND is_objpack TO it_objpack.

    LOOP AT s_mail.

      is_reclist-receiver = s_mail-low.
      is_reclist-rec_type = 'U'.
      APPEND is_reclist TO it_reclist.

```

```

CLEAR is_reclist.
ENDLOOP.
CALL FUNCTION 'SO_NEW_DOCUMENT_ATT_SEND_API1'
  EXPORTING
    document_data      = is_doc_chng
    put_in_outbox      = 'X'
    commit_work        = 'X'
  TABLES
    packing_list       = it_objpack
    contents_txt       = it_objtxt
    receivers          = it_reclist
  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.
IF sy-subrc <> 0.
  MESSAGE ID sy-msgid TYPE sy-msgty NUMBER sy-msgno
    WITH sy-msgv1 sy-msgv2 sy-msgv3 sy-msgv4.
ENDIF.
EXIT.
ENDLOOP.
ENDFORM.                " sub_populate_data
*&-----*
*&      Form  SUB_GET_FILENAME_APPL
*&-----*
*      text
*-----*
*      -->P_P_FILE  text
*-----*
FORM sub_get_filename_appl USING w_fname.
**GET THE FILENAME FROM THE APPLICATION SERVER

CALL FUNCTION '/SAPDMC/LSM_F4_SERVER_FILE'
  EXPORTING
    directory      = w_fname
    filemask       = '*'
  IMPORTING
    serverfile     = w_fname
  EXCEPTIONS
    canceled_by_user = 1
    OTHERS         = 2.
IF sy-subrc <> 0.
  MESSAGE ID sy-msgid TYPE sy-msgty NUMBER sy-msgno
    WITH sy-msgv1 sy-msgv2 sy-msgv3 sy-msgv4.
ENDIF.
ENDFORM.                " SUB_GET_FILENAME_APPL

```

Once you run the above program the it will ask inputs like below

Checking files in application server for FNR1

Checking files in application server

Application Directory	<input type="text"/>
File	<input type="text"/> →
Mail	<input type="text"/> →
Date	<input type="text"/>

Checking files in application server for FNR1

Checking files in application server for FNR1

Application Directory	<input type="text" value="/usr/sap/BD1/DVEBMGS00/data"/>
File	<input type="text" value="ENQSTAT"/> →
Mail	<input type="text" value="SURENDRA.REDDY@"/> →
Date	<input type="text"/>

You just give path name in Application Directory and File name in File and mail id. Date is not required.

It is better create a variant and set the variant, because everyday my file name is same. So I set the variant and execute this program in background at particular time, and if it won't find the given file names then you will get mail.

Note: Configure your mail box with your BW system.

Related Content

[For more information, visit the Business Intelligence homepage.](#)

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