

*****Penguin Random House - DISPATCH CONFIRMATION

```
*-----*
* Prog Name       : ZMMBMI003_DISPATCH_F00      *
* Title          : I003 DISPATCH CONFIRMATION  *
* Object Id      : I130 (Object Number)        *
* Author         : GJANARDHAN                  *
* Date           : 12-MAY-2016                 *
* Business Contact : N/A                      *
*-----*
* Purpose        : Syb routine to implement the forms *
*-----*
* Notes          : N/A                        *
*-----*
* Modification History: (latest on Top)        *
* Request#       : ESDK903185                 *
* Developer      : SSAWHNEY                   *
* Date           : 02-Dec-2016                 *
* Description    : Def 835                     *
* Modif. Tag     : MOD-002                     *
*-----*
* Request#       : ESDK901876                 *
* Developer      : SSAWHNEY                   *
* Date           : 23-Aug-2016                 *
* Description    : Def 183                     *
* Modif. Tag     : MOD-001                     *
*-----*
* Modification History: (latest on Top)        *
* Request#       : ESDK900571                 *
* Developer      : GHARIHARANJA               *
* Date           : 17-MAY-2016                 *
* Description    : Dispatch Confirmation       *
* Modif. Tag     : GJANARDHAN17MAY2016      *
```

* validate the delivery number

FORM validation CHANGING cv_flag TYPE flag.

DATA: lv_vbeln TYPE zvbeln.

SELECT SINGLE zvbeln INTO lv_vbeln FROM ztpg_shipment WHERE zvbeln EQ p_vbeln.

IF sy-subrc EQ 0.

cv_flag ='X'.

ELSE.

MESSAGE s000 WITH text-002 DISPLAY LIKE 'E'.

LEAVE LIST-PROCESSING.

ENDIF.

ENDFORM.

"Fetch data from table

FORM fetch_data.

SELECT *

FROM ztpg_shipment

INTO TABLE gt_shipment1

WHERE zvbeln EQ p_vbeln

```
AND zdate IN s_date.
IF sy-subrc EQ '0'.
  SORT gt_shipment1 BY zvbeln.
ENDIF.
ENDFORM.
```

```
*&-----*
*&   Build Alv field catalog
*&-----*
```

```
FORM build_fieldcatalog .
  gwa_fieldcatalog-fieldname = text-010.
  gwa_fieldcatalog-seltext_m = text-011.
  gwa_fieldcatalog-col_pos   = 1.
  APPEND gwa_fieldcatalog TO gt_fieldcatalog.
  CLEAR gwa_fieldcatalog.
```

```
  gwa_fieldcatalog-fieldname = text-012.
  gwa_fieldcatalog-seltext_m = text-013.
  gwa_fieldcatalog-col_pos   = 2.
  APPEND gwa_fieldcatalog TO gt_fieldcatalog.
  CLEAR gwa_fieldcatalog.
```

```
  gwa_fieldcatalog-fieldname = text-014.
  gwa_fieldcatalog-seltext_m = text-015.
  gwa_fieldcatalog-col_pos   = 3.
  APPEND gwa_fieldcatalog TO gt_fieldcatalog.
  CLEAR gwa_fieldcatalog.
```

```
  gwa_fieldcatalog-fieldname = text-016.
  gwa_fieldcatalog-seltext_m = text-017.
  gwa_fieldcatalog-col_pos   = 4.
  APPEND gwa_fieldcatalog TO gt_fieldcatalog.
  CLEAR gwa_fieldcatalog.
```

```
  gwa_fieldcatalog-fieldname = text-018.
  gwa_fieldcatalog-seltext_m = text-019.
  gwa_fieldcatalog-col_pos   = 5.
  APPEND gwa_fieldcatalog TO gt_fieldcatalog.
  CLEAR gwa_fieldcatalog.
```

```
  gwa_fieldcatalog-fieldname = text-020.
  gwa_fieldcatalog-seltext_m = text-021.
  gwa_fieldcatalog-col_pos   = 6.
  APPEND gwa_fieldcatalog TO gt_fieldcatalog.
  CLEAR gwa_fieldcatalog.
```

```
  gwa_fieldcatalog-fieldname = text-022.
  gwa_fieldcatalog-seltext_m = text-023.
  gwa_fieldcatalog-col_pos   = 7.
  APPEND gwa_fieldcatalog TO gt_fieldcatalog.
  CLEAR gwa_fieldcatalog.
```

gwa_fieldcatalog-fieldname = text-024.
gwa_fieldcatalog-seltext_m = text-025.
gwa_fieldcatalog-col_pos = 8.
APPEND gwa_fieldcatalog TO gt_fieldcatalog.
CLEAR gwa_fieldcatalog.

gwa_fieldcatalog-fieldname = text-026.
gwa_fieldcatalog-seltext_m = text-027.
gwa_fieldcatalog-col_pos = 9.
APPEND gwa_fieldcatalog TO gt_fieldcatalog.
CLEAR gwa_fieldcatalog.

gwa_fieldcatalog-fieldname = text-028.
gwa_fieldcatalog-seltext_m = text-029.
gwa_fieldcatalog-col_pos = 10.
APPEND gwa_fieldcatalog TO gt_fieldcatalog.
CLEAR gwa_fieldcatalog.

* gwa_fieldcatalog-fieldname = text-030.
* gwa_fieldcatalog-seltext_m = text-031.
* gwa_fieldcatalog-col_pos = 11.
* APPEND gwa_fieldcatalog TO gt_fieldcatalog.
* CLEAR gwa_fieldcatalog.

*

* gwa_fieldcatalog-fieldname = text-032.
* gwa_fieldcatalog-seltext_m = text-033.
* gwa_fieldcatalog-col_pos = 12.
* APPEND gwa_fieldcatalog TO gt_fieldcatalog.
* CLEAR gwa_fieldcatalog.

*

* gwa_fieldcatalog-fieldname = text-034.
* gwa_fieldcatalog-seltext_m = text-035.
* gwa_fieldcatalog-col_pos = 13.
* APPEND gwa_fieldcatalog TO gt_fieldcatalog.
* CLEAR gwa_fieldcatalog.

gwa_fieldcatalog-fieldname = text-036.
gwa_fieldcatalog-seltext_m = text-037.
gwa_fieldcatalog-col_pos = 14.
APPEND gwa_fieldcatalog TO gt_fieldcatalog.
CLEAR gwa_fieldcatalog.

gwa_fieldcatalog-fieldname = text-038.
gwa_fieldcatalog-seltext_m = text-039.
gwa_fieldcatalog-col_pos = 15.
APPEND gwa_fieldcatalog TO gt_fieldcatalog.
CLEAR gwa_fieldcatalog.

gwa_fieldcatalog-fieldname = text-040.
gwa_fieldcatalog-seltext_m = text-041.
gwa_fieldcatalog-col_pos = 16.
APPEND gwa_fieldcatalog TO gt_fieldcatalog.
CLEAR gwa_fieldcatalog.

```
gwa_fieldcatalog-fieldname = text-045.
gwa_fieldcatalog-seltext_m = text-046.
gwa_fieldcatalog-col_pos   = 17.
APPEND gwa_fieldcatalog TO gt_fieldcatalog.
CLEAR gwa_fieldcatalog.
```

```
ENDFORM.                " BUILD_FIELDDCATALOG
*&-----*
*&   Form  DISPLAY_ALV
*&-----*
FORM display_alv .
```

```
gv_repid = sy-repid.
```

```
CALL FUNCTION 'REUSE_ALV_GRID_DISPLAY'
EXPORTING
  i_callback_program   = gv_repid
  i_callback_top_of_page = 'TOP-OF-PAGE'
  it_fieldcat          = gt_fieldcatalog[]
  i_save               = gc_check
  is_variant           = gv_variant
TABLES
  t_outtab             = gt_shipment1.
```

```
ENDFORM.                " DISPLAY_ALV
```

```
*-----*
* Form  TOP-OF-PAGE
*-----*
* ALV Report Header
*-----*
```

```
FORM top-of-page.
```

```
*ALV Header declarations
```

```
DATA: lt_header TYPE slis_t_listheader,
      lwa_header TYPE slis_listheader.
```

```
* Title
```

```
lwa_header-typ = gc_h.
```

```
lwa_header-info = text-027.
```

```
APPEND lwa_header TO lt_header.
```

```
CLEAR lwa_header.
```

```
* Date
```

```
lwa_header-typ = gc_s.
```

```
CONCATENATE sy-datum+6(2) gc_dot
```

```
            sy-datum+4(2) gc_dot
```

```
            sy-datum(4) INTO lwa_header-info. "today's date
```

```
APPEND lwa_header TO lt_header.
```

```
CLEAR: lwa_header.
```

```
CALL FUNCTION 'REUSE_ALV_COMMENTARY_WRITE'
EXPORTING
```

```
  it_list_commentary = lt_header.
```

```
ENDFORM.                "top-of-page
```

```

*&-----*
*&   Form get_file_names
*&-----*
"to get the name of the file.
FORM get_file_names.

MOVE gwa_files-name TO gv_filename.
CALL METHOD zcl_ca_file_utils=>get_interface_filename
EXPORTING
    im_objid      = gc_objid
    im_filename    = gv_filename
IMPORTING
    ex_source_file = gv_source_file
    ex_error_file  = gv_error_file
    ex_arch_file   = gv_arch_file
EXCEPTIONS
    no_path        = 1
    no_data_maintained = 2
    OTHERS         = 3.

```

ENDFORM.

```

*&-----*
*&   Form get_source_files
*&-----*
"to get source files
FORM get_source_files.

CALL METHOD zcl_ca_file_utils=>get_source_files
EXPORTING
    im_objid = gc_objid
IMPORTING
    tab_data = gt_files
    ev_dir   = gv_dir
EXCEPTIONS
    incorrect_path = 1
    file_not_found = 2
    not_found      = 3
    OTHERS         = 4.
IF sy-subrc <> 0 OR gt_files IS INITIAL.
    MESSAGE s017(zrh) DISPLAY LIKE 'E' WITH gv_dir.
    LEAVE LIST-PROCESSING.
ENDIF.
ENDFORM.

```

```

*&-----*
*&   Form ARCHIVE_SOURCE_FILE
*&-----*
*   Archive Source File - Interface Strategy
*-----*
FORM archive_sourcefile .

* Archive Source File

```

CALL METHOD zcl_ca_file_utils=>move_copy_file

EXPORTING

im_source_file = gv_source_file

im_target_file = gv_arch_file

EXCEPTIONS

invalid_operation = 1

invalid_location = 2

copy_move_failed = 3

invalid_source = 4

invalid_target = 5

file_deletion_failed = 6

OTHERS = 7.

ENDFORM. " ARCHIVE_SOURCE_FILE

&-----

*& Form upload_data

&-----

* to get the data from the file into the internal table

FORM upload_data .

DATA: lv_file TYPE string.

CONCATENATE gwa_files-directory '\ ' gwa_files-name INTO lv_file.

CALL METHOD zcl_ca_file_utils=>upload_file_with_header

EXPORTING

iv_file_name = lv_file

iv_separator = cl_abap_char_utilities=>horizontal_tab

iv_location = gc_a

iv_header_present = abap_true

iv_footer_present = abap_true

CHANGING

cv_header = gv_header

ct_data = gt_shipment

cv_footer = gv_footer

EXCEPTIONS

file_open_error = 1

file_close_error = 2

file_upload_error = 3

OTHERS = 4.

IF sy-subrc <> 0.

gwa_slgl_records-line_no = gc_zero.

gwa_slgl_records-msg_ind = gc_e.

MESSAGE s019(zrh) WITH lv_file INTO gwa_slgl_records-message.

"Unable to read data from file: &

APPEND gwa_slgl_records TO gt_slgl_records.

ENDIF.

* BOC 31.08.2016 Def#183 - Commented

* CALL METHOD zcl_ca_file_utils=>upload_file

* EXPORTING

* im_file_name = lv_file

* im_separator = cl_abap_char_utilities=>horizontal_tab

* im_location = gc_a

```

* CHANGING
*   tab_data      = gt_shipment
* EXCEPTIONS
*   file_open_error = 1
*   file_close_error = 2.
* IF sy-subrc NE 0.
*   gwa_slgl_records-line_no = gc_zero.
*   gwa_slgl_records-msg_ind = gc_e.
*   MESSAGE s019(zrh) WITH lv_file INTO gwa_slgl_records-message.      "Unable to read data from file: &
*   APPEND gwa_slgl_records TO gt_slgl_records.
* ENDIF.
* EOC 31.08.2016 Def#183 - Commented

```

```

ENDFORM.                " UPLOAD_DATA
*&-----*
*&   Form process_data
*&-----*
* to get the data into ztpp_shipment
*-----*

```

FORM process_data .

```

TYPES: BEGIN OF lty_likp,
        vbeln TYPE zvbeln,
        vkorg TYPE vkorg,      " (+) 02.12.2016 Def#835 SSDef835
        route TYPE route,
        kunnr TYPE kunwe,
      END OF lty_likp,

```

```

* BOC 02.12.2016 Def#835 SSDef835
*   BEGIN OF lty_knvv,
*     kunnr      TYPE kunnr,      " Customer Number
*     vkorg      TYPE vkorg,      " Sales Organization
*     vsbed      TYPE vsbed,
*     zzcarrier_code TYPE zzcarrier_code, " Carrier Service Code
*   END OF lty_knvv.
* EOC 02.12.2016 Def#835 SSDef835
*   BEGIN OF lty_route,
*     route TYPE tvro-route,
*   END OF lty_route.

```

```

CONSTANTS : lc_d TYPE c VALUE '-',
            lc_z TYPE c VALUE '!'.

```

```

DATA:lt_likp  TYPE TABLE OF lty_likp,
*   lt_knvv  TYPE TABLE OF lty_knvv, " (+) 02.12.2016 Def#835 SSDef835
*   ls_knvv  TYPE lty_knvv, " (+) 02.12.2016 Def#835 SSDef835
*   lt_tvsb  TYPE TABLE OF tvsb,
*   ls_tvsb  TYPE tvsb,
*   lt_carsrcd TYPE TABLE OF ztsd_carser_code,
*   ls_carsrcd TYPE ztsd_carser_code,
*   lt_route  TYPE TABLE OF lty_route,
*   ls_route  TYPE lty_route,
*   lv_vbeln  TYPE zvbeln,
*   lv_counter TYPE zcounter1,

```

```
* lv_carserv TYPE char2, " (+) 02.12.2016 Def#835 SSDef835
lv_error TYPE flag. " (+) 02.12.2016 Def#835 SSDef835
```

```
SORT gt_shipment BY vbeln.
```

```
LOOP AT gt_shipment INTO gwa_shipment.
```

```
lv_vbeln = gwa_shipment-vbeln.
```

```
CALL FUNCTION 'CONVERSION_EXIT_ALPHA_INPUT' "To display the delivery num
ber to the output field length
```

```
EXPORTING
```

```
input = lv_vbeln
```

```
IMPORTING
```

```
output = lv_vbeln.
```

```
gwa_shipment-vbeln = lv_vbeln.
```

```
MODIFY gt_shipment FROM gwa_shipment INDEX sy-tabix TRANSPORTING vbeln . " Modifies the intern
al table
```

```
CLEAR : lv_vbeln.
```

```
ENDLOOP.
```

```
SELECT vbeln
```

```
vkorg route kunnr " (+) 02.12.2016 Def#835 SSDef835
```

```
FROM likp " Validate for delivery number
```

```
INTO TABLE lt_likp
```

```
FOR ALL ENTRIES IN gt_shipment
```

```
WHERE vbeln EQ gt_shipment-vbeln.
```

```
IF sy-subrc EQ 0.
```

```
* BOC 02.12.2016 Def#835 SSDef835
```

```
SORT lt_likp BY vbeln.
```

```
* IF lt_likp IS NOT INITIAL.
```

```
* SELECT kunnr " Customer Number
```

```
* vkorg " Sales Organization
```

```
* vsbed
```

```
* zzcarrier_code " Carrier Service Code
```

```
* FROM knvv
```

```
* INTO TABLE lt_knvv
```

```
* FOR ALL ENTRIES IN lt_likp
```

```
* WHERE kunnr = lt_likp-kunnr
```

```
* AND vkorg = lt_likp-vkorg
```

```
* AND vtweg = '00'
```

```
* AND spart = '00'.
```

```
* IF sy-subrc EQ 0.
```

```
* SORT lt_knvv BY kunnr.
```

```
* ENDIF.
```

```
* ENDIF.
```

```
*** Begin of Defect # 1124 (Selecting Master data of Carrier Cd, Carrier Ser Cd and Route )
```

```
SELECT * FROM tvsb INTO TABLE lt_tvsb. " Carrier Code
```

```
IF sy-subrc EQ 0.
```

```
SORT lt_tvsb.
```

```
ENDIF.
```

```
SELECT * FROM ztsd_carser_code " Carrier Service Code
```

```
INTO TABLE lt_carscd
```

```
WHERE field_name = 'ZZCARRIER_CODE'.
```



```

IF sy-subrc EQ 0.
  " Do not Sort
ENDIF.
SELECT route FROM tvro INTO TABLE lt_route. " Route
IF sy-subrc EQ 0.
  " Do not Sort
ENDIF.
*** End of Defect # 1124

* EOC 02.12.2016 Def#835 SSDef835
  LOOP AT gt_shipment INTO gwa_shipment.
    AT NEW vbeln.                                " for every new delivery number, counter is reset
      lv_counter = 0.
*      CONDENSE lv_counter.                        " to remove the leading and closing blanks "Def#U
AT 504
  ENDAT.

  "validate.
  CLEAR : lv_error. " (+) 02.12.2016 Def#835 SSDef835
  READ TABLE lt_likp WITH KEY vbeln = gwa_shipment-vbeln BINARY SEARCH TRANSPORTING NO FI
ELDS.
  IF sy-subrc = 0.
* BOC 02.12.2016 Def#835 SSDef835
* Adding Validation:
*   READ TABLE lt_knvv INTO ls_knvv
*   WITH KEY kunnr = ls_likp-kunnr BINARY SEARCH.
*   IF sy-subrc EQ 0.

* Check Carrier Code
  READ TABLE lt_tvsb WITH KEY vsbed = gwa_shipment-carc BINARY SEARCH TRANSPORTING NO F
IELDS.
  IF sy-subrc NE 0.
*   IF ls_knvv-vsbed NE gwa_shipment-carc.
*   Carrier code doesn't match with the info in the delivery # <XXXXXX>"
    gwa_slgl_records-msg_ind = gc_e.
    gwa_slgl_records-message = text-047.
    CONCATENATE gwa_shipment-vbeln lc_d gwa_slgl_records-message INTO gwa_slgl_records-message S
EPARATED BY ':'.
    APPEND gwa_slgl_records TO gt_slgl_records.
    CLEAR gwa_slgl_records.

    gwa_error-error_ind = gc_e.
    CONCATENATE gwa_shipment-vbeln text-047 INTO gwa_error-error_msg SEPARATED BY lc_z. "lv_vbe
ln
    APPEND gwa_error TO gt_error.
    CLEAR gwa_error.
    lv_error = abap_true.
*   ENDIF.
  ENDIF.

* Check Carrier Service Code
*   lv_len = strlen( ls_knvv-zzcarrier_code ).
*   lv_len = lv_len - 2.
*   IF lv_len LT 2.

```

```

*      lv_carserv = ls_knvv-zzcarrier_code.
*      ELSE.
*      lv_carserv = ls_knvv-zzcarrier_code+2(2).
*      ENDIF.
*      lv_carserv = ls_knvv-zzcarrier_code+2(2).
      READ TABLE lt_carsrcd WITH KEY carrier_code+2(2) = gwa_shipment-carserv TRANSPORTING NO FIELDS.
      IF sy-subrc NE 0.
*      IF lv_carserv NE gwa_shipment-carserv.
*      Carrier service code doesn't match with the info in the delivery # <XXXXXX>
      gwa_slgl_records-msg_ind = gc_e.
      gwa_slgl_records-message = text-048.
      CONCATENATE gwa_shipment-vbeln lc_d gwa_slgl_records-message INTO gwa_slgl_records-message SEPARATED BY '!'.
      APPEND gwa_slgl_records TO gt_slgl_records.
      CLEAR gwa_slgl_records.

      gwa_error-error_ind = gc_e.
      CONCATENATE gwa_shipment-vbeln text-048 INTO gwa_error-error_msg SEPARATED BY lc_z. "lv_vbe
ln
      APPEND gwa_error TO gt_error.
      CLEAR gwa_error.
      lv_error = abap_true.
*      ENDIF.
      ENDIF.
*      ENDIF.

* Check Route :
      READ TABLE lt_route WITH KEY route+2(2) = gwa_shipment-carr TRANSPORTING NO FIELDS.
      IF sy-subrc NE 0.
*      IF ls_likp-route+2(2) NE gwa_shipment-carr.
*      Route code doesn't match with the info in the delivery # <XXXXXX> .
      gwa_slgl_records-msg_ind = gc_e.
      gwa_slgl_records-message = text-049.
      CONCATENATE gwa_shipment-vbeln lc_d gwa_slgl_records-message INTO gwa_slgl_records-message SEPARATED BY '!'.
      APPEND gwa_slgl_records TO gt_slgl_records.
      CLEAR gwa_slgl_records.

      gwa_error-error_ind = gc_e.
      CONCATENATE gwa_shipment-vbeln text-049 INTO gwa_error-error_msg SEPARATED BY lc_z. "lv_vbe
ln
      APPEND gwa_error TO gt_error.
      CLEAR gwa_error.
      lv_error = abap_true.
*      ENDIF.
      ENDIF.

      IF lv_error = abap_true.
      gv_error = gv_error + 1.
      CONTINUE.
      ENDIF.
      " increment the no of error records
* EOC 02.12.2016 Def#835 SSDef835

```

*Update the table ZTPP_SHIPMENT from values from the internal table gt_shipment

gwa_shipment1-zvbeln = gwa_shipment-vbeln.

gwa_shipment1-zcounter = lv_counter.

gwa_shipment1-zdate = sy-datum.

gwa_shipment1-zparn = gwa_shipment-parn.

gwa_shipment1-ztran = gwa_shipment-tran.

gwa_shipment1-zdesdate = gwa_shipment-desdate.

gwa_shipment1-zdestime = gwa_shipment-destime.

gwa_shipment1-zcarc = gwa_shipment-carc.

gwa_shipment1-zcarr = gwa_shipment-carr.

gwa_shipment1-zcarserv = gwa_shipment-carserv.

* gwa_shipment1-zfparn = gwa_shipment-fparn.

* gwa_shipment1-zlparn = gwa_shipment-lparn.

* gwa_shipment1-znopar = gwa_shipment-nopar.

gwa_shipment1-znopar = gwa_shipment-nopal.

gwa_shipment1-zweight = gwa_shipment-weight.

gwa_shipment1-zzernam = sy-uname.

gwa_shipment1-zzerdat = sy-datum.

gwa_shipment1-zzerzet = sy-zeit.

* gwa_shipment1-zzaenam = sy-uname.

* gwa_shipment1-zzaedat = sy-datum.

* gwa_shipment1-zzaezet = sy-zeit.

MODIFY ztpp_shipment FROM gwa_shipment1.

lv_counter = lv_counter + 1.

* CONDENSE lv_counter. "Def#504

gv_total = gv_total + 1.

"increment the total number of records

* Success Record

gwa_slgl_records-msg_ind = gc_s.

gwa_slgl_records-message = text-042.

CONCATENATE gwa_shipment-vbeln lc_d gwa_slgl_records-message INTO gwa_slgl_records-message.

APPEND gwa_slgl_records TO gt_slgl_records.

gv_success = gv_success + 1.

" increment the no of success records

ELSE.

" for error records

gwa_slgl_records-msg_ind = gc_e.

gwa_slgl_records-message = text-043.

CONCATENATE gwa_shipment-vbeln lc_d gwa_slgl_records-message INTO gwa_slgl_records-message SEPARATED BY '!'.

APPEND gwa_slgl_records TO gt_slgl_records.

gv_error = gv_error + 1.

" increment the no of error records

gwa_error-error_ind = gc_e.

CONCATENATE gwa_shipment-vbeln text-043 INTO gwa_error-error_msg SEPARATED BY lc_z. "lv_vbel

n

APPEND gwa_error TO gt_error.

ENDIF.

ENDLOOP.

ELSE.

gwa_slgl_records-msg_ind = gc_e.

gwa_slgl_records-message = text-044.

APPEND gwa_slgl_records TO gt_slgl_records.

```

gv_error = gv_error + 1.                                " increment the no of error records
gwa_error-error_ind = gc_e.
gwa_error-error_msg = text-044.
APPEND gwa_error TO gt_error.
ENDIF.

```

ENDFORM.

```

*&-----*
*&   Form UPDATE_SLG_LOG
*&-----*
*   Create SLG Log - Interface Strategy
*-----*

```

FORM update_slg_log .

DATA : lv_count TYPE int4.

```

* DESCRIBE TABLE gt_slg1_records LINES lv_count. " (-) 02.12.2016 Def#835 SSDef835
DESCRIBE TABLE gt_shipment LINES lv_count. " (+) 02.12.2016 Def#835 SSDef835

```

```

* Update SLG with processing summary and details
CALL METHOD zcl_ca_file_utils=>update_slg_log

```

EXPORTING

```

im_objid          = gc_objid
im_total_record_count = lv_count
im_success_record_count = gv_success
im_error_record_count = gv_error
im_source_full_file_name = gv_source_file
im_error_full_file_name = gv_error_file
im_archive_full_file_name = gv_arch_file
im_itab           = gt_slg1_records

```

IMPORTING

```

ex_objid          = gv_slg1_objid
ex_subobjid       = gv_slg1_subobjid
ex_external_id    = gv_external_id

```

EXCEPTIONS

```

no_path          = 1
no_data_maintained = 2
log_header_inconsistent = 3
unknown_error    = 4
log_msg_error    = 5
log_save_error   = 6
OTHERS           = 7.

```

ENDFORM. " UPDATE_SLG_LOG

```

*&-----*
*&   Form SEND_EMAIL_NOTIFICATION
*&-----*
*   Send Email Notification - Interface Strategy
*-----*

```

FORM send_email_notification .

```

* Send Notification with File names and SLG Log details

```

CALL METHOD zcl_ca_file_utils=>send_interface_notif

EXPORTING

im_objid = gc_objid
im_source_file = gv_source_file
im_error_file = gv_error_file
im_arch_file = gv_arch_file
im_slgkey = gv_external_id
im_slgobj = gv_slg1_objid
im_slgsubobj = gv_slg1_subobjid

EXCEPTIONS

mail_id_not_found = 1
unable_to_send = 2
not_found = 3
mail_sub_not_maintained = 4
OTHERS = 5.

ENDFORM. " SEND_EMAIL_NOTIFICATION

&-----

*& Form SEND_ERROR_FILE

&-----

* text

FORM send_error_file .

"To pass the error files to the error folder in application server

CALL METHOD zcl_ca_file_utils=>download_file

EXPORTING

im_file_name = gv_error_file
im_separator = cl_abap_char_utilities=>horizontal_tab
im_location = gc_a
im_confirm_overwrite = space

CHANGING

tab_data = gt_error

EXCEPTIONS

file_open_error = 1
file_close_error = 2
file_download_error = 3
OTHERS = 4.

IF sy-subrc <> 0.

gwa_slg1_records-line_no = gc_zero.

gwa_slg1_records-msg_ind = gc_e.

MESSAGE e014(zrh) WITH gv_error_file INTO gwa_slg1_records-message.

APPEND gwa_slg1_records TO gt_slg1_records.

ENDIF.

"Error Uploading the file: &

ENDFORM. " SEND_ERROR_FILE

&-----

*& Form REFRESH_FILE_GLOBALS

&-----

* Refresh File Specific Globals

FORM refresh_file_globals.

CLEAR: gv_filename,gv_source_file,
gv_error_file,gv_arch_file,gwa_slg1_records,
gv_external_id,gwa_shipment,gwa_error,
gwa_shipment1,gv_header,gv_flag,gv_slg1_objid,
gv_slg1_subobjid,gv_dir,gv_repid,gv_variant,
gv_error,gv_success,gv_footer.

REFRESH: gt_shipment,gt_slg1_records,gt_error.

ENDFORM.

*****Penguin Random House - DISPATCH CONFIRMATION

```
*-----*
* Prog Name      : ZMMBMI003_DISPATCH      *
* Title          : I003 DISPATCH CONFIRMATION *
* Object Id      : I003 (Object Number)    *
* Author         : GJANARDHAN              *
* Date           : 12-MAY-2016             *
* Business Contact : N/A                   *
*-----*
* Purpose        : POPULATE ZTPP_SHIPMENT USING INBOUND FILES *
*-----*
* Notes          : N/A                     *
*-----*
* Modification History: (latest on Top)    *
* Request#       : ESDK901876              *
* Developer      : SSAWHNEY                *
* Date           : 23-Aug-2016             *
* Description    : Def 183                 *
* Modif. Tag     : MOD-001                 *
*-----*
* Modification History: (latest on Top)    *
* Request#       : ESDK900571              *
* Developer      : GHARIHARANJA            *
* Date           : 17-MAY-2016             *
* Description    : Dispatch Confirmation   *
* Modif. Tag     : GJANARDHAN17MAY2016    *
```

REPORT zmmbmi003_dispatch NO STANDARD PAGE HEADING MESSAGE-ID zmts.

```
INCLUDE zmmbmi003_dispatch_top.      "data declaration
INCLUDE zmmbmi003_dispatch_sel.      "selection screen
INCLUDE zmmbmi003_dispatch_f00.      "sub-routine to implement performs.
```

```
* BOC 23.08.2016 Def#183 - Commented
* AT SELECTION-SCREEN ON p_vbeln.
* IF sy-batch NE abap_true.          "if the process runs in foreground
*   PERFORM validation CHANGING gv_flag.  "validate selection screen parameters
* IF gv_flag EQ abap_true.
*   PERFORM fetch_data.               "fetch data for ALV
* ENDIF.
* ENDIF.
* EOC 23.08.2016 Def#183 - Commented
```

START-OF-SELECTION.

```
** BOC 23.08.2016 Def#183 - Changing the location of code to Start of Selection
IF sy-batch NE abap_true.          "if the process runs in foreground
  PERFORM validation CHANGING gv_flag.  "validate selection screen parameters
  IF gv_flag EQ abap_true.
    PERFORM fetch_data.               "fetch data for ALV
  ENDIF.
ENDIF.
** EOC 23.08.2016 Def#183
```

```
IF sy-batch = abap_true.  
  PERFORM get_source_files.  
  LOOP AT gt_files INTO gwa_files.  
    PERFORM refresh_file_globals.    "Added by SP on 8Jul2017(+)  
    PERFORM get_file_names.  
    PERFORM upload_data.  
    PERFORM process_data.  
    IF gt_error IS NOT INITIAL.  
      PERFORM send_error_file.  
    ELSE.  
      "DEF#781  
      CLEAR gv_error_file.      "DEF#781  
    ENDIF.  
    PERFORM update_slg_log.  
    PERFORM archive_sourcefile.  
    PERFORM send_email_notification.  
  ENDLOOP.  
ENDIF.
```

END-OF-SELECTION.

```
IF sy-batch NE abap_true.  
  IF gt_shipment1[] IS NOT INITIAL.  
    PERFORM build_fieldcatalog.  
    PERFORM display_alv.  
  ENDIF.  
ELSE.  
  MESSAGE i018(zrh).      "Interface Strategy  
  "Execution Complete, Check SLG and Email  
ENDIF.
```


*****Penguin Random House - DISPATCH CONFIRMATION

* Prog Name : ZMMBMI003_DISPATCH *

* Title : I003 DISPATCH CONFIRMATION *

* Object Id : I003 (Object Number) *

* Author : GJANARDHAN *

* Date : 12-MAY-2016 *

* Business Contact : N/A *

* Purpose : POPULATE ZTPP_SHIPMENT USING INBOUND FILES *

* Notes : N/A *

* Modification History: (latest on Top) *

* Request# : ESDK900571 *

* Developer : GHARIHARANJA *

* Date : 17-MAY-2016 *

* Description : Dispatch Confirmation *

* Modif. Tag : GJANARDHAN17MAY2016 *

DATA : lv_date TYPE datum.

SELECTION-SCREEN: BEGIN OF BLOCK b1 WITH FRAME TITLE text-s01.

PARAMETERS: p_vbeln TYPE vbuk-vbeln. "delivery number

SELECT-OPTIONS: s_date FOR lv_date. "creation date

SELECTION-SCREEN: END OF BLOCK b1.

*****Penguin Random House - DISPATCH CONFIRMATION

* Prog Name : ZMMBMI003_DISPATCH *

* Title : I003 DISPATCH CONFIRMATION *

* Object Id : I003 (Object Number) *

* Author : GJANARDHAN *

* Date : 12-MAY-2016 *

* Business Contact : N/A *

* Purpose : POPULATE ZTPP_SHIPMENT USING INBOUND FILES *

* Notes : N/A *

* Modification History: (latest on Top) *

* Request# : ESDK900571 *

* Developer : GHARIHARANJA *

* Date : 17-MAY-2016 *

* Description : Dispatch Confirmation *

* Modif. Tag : GJANARDHAN17MAY2016 *

* TYPE DECLARATION

TYPES:

BEGIN OF gty_shipment,
rec_status TYPE char1,
vbeln TYPE zvbeln,
date TYPE zdate1,
parn TYPE zparn,
tran TYPE ztran,
desdate TYPE zdesdate,
destime TYPE zdestime,
carc TYPE zcarc,
carr TYPE zcarr,
carserv TYPE zcarserv,
* fparn TYPE zfparn,
* lparn TYPE zlparn,
* nopar TYPE znopar,
nopal TYPE znopal,
weight TYPE zweight,
END OF gty_shipment,

BEGIN OF gty_er,
error_ind TYPE char01,
error_msg TYPE string,
END OF gty_er.

* DATA DECLARATION

```
DATA: gt_files      TYPE TABLE OF zcl_ca_file_utils=>zbcdir_lt,
      gwa_files     TYPE zcl_ca_file_utils=>zbcdir_lt,
      gv_filename   TYPE string,
      gv_source_file TYPE string,
      gv_error_file TYPE string,
      gv_arch_file  TYPE string,
      gt_slgl_records TYPE zsd_tslgl_log,
      gwa_slgl_records TYPE zsd_slgl_log,
      gv_external_id TYPE balnnext,
      gt_shipment   TYPE TABLE OF gty_shipment,
      gt_shipment1  TYPE TABLE OF ztpg_shipment,
      gwa_shipment  TYPE gty_shipment,
      gt_error      TYPE TABLE OF gty_er,
      gwa_error     TYPE gty_er,
      gwa_shipment1 TYPE ztpg_shipment.
```

* VARIABLES DECLARATION

```
DATA: gv_header     TYPE string,
      gv_total      TYPE i,
      gv_flag       TYPE flag,
      gv_slgl_objid TYPE balobj_d,
      gv_slgl_subobjid TYPE balsubobj,
      gv_dir        TYPE string.
```

* ALV VARIABLES DECLARATION

```
DATA: gt_fieldcatalog TYPE slis_t_fieldcat_alv,
      gwa_fieldcatalog TYPE slis_fieldcat_alv,
      gv_repid        LIKE sy-repid,
      gv_variant      TYPE disvariant,
      gv_error        TYPE i,
      gv_success      TYPE i,
      gv_footer       TYPE string.  " (+) 26.08.2016 Def#183 MOD-001
```

* CONSTANTS DECLARATION

*

```
CONSTANTS:gc_objid TYPE zzobjid VALUE 'I003',
          gc_check TYPE char1 VALUE 'X',
          gc_a     TYPE char1 VALUE 'A',
          gc_e     TYPE char1 VALUE 'E',
          gc_s     TYPE char1 VALUE 'S',
          gc_h     TYPE char1 VALUE 'H',
          gc_dot   TYPE char1 VALUE '.',
          gc_zero  TYPE char1 VALUE '0'.
```