

Merge Multiple Adobe forms into Single PDF and Send as Email Attachment

```
CLASS lcl_merge_form_and_send_mail DEFINITION.
    PUBLIC SECTION.
        TYPES: tt_customerid TYPE TABLE OF s_customer WITH EMPTY KEY.
        METHODS: send_mail.
        METHODS: merge_forms IMPORTING it_customers TYPE tt_customerid.

    PRIVATE SECTION.
        DATA: mv_merged_pdf TYPE fpcontent.
        METHODS: get_form IMPORTING iv_customer_id TYPE s_customer
                    RETURNING VALUE(rv_pdf) TYPE fpcontent.
        METHODS: get_customer_data IMPORTING iv_customer_id TYPE s_customer
                    EXPORTING customer_detail TYPE scustom
                               bookings      TYPE ty_bookings
                               connections   TYPE ty_connections.
ENDCLASS.

CLASS lcl_merge_form_and_send_mail IMPLEMENTATION.
    METHOD get_customer_data.
        SELECT SINGLE FROM scustom
            FIELDS *
            WHERE id = @iv_customer_id
            INTO @customer_detail.
        SELECT FROM bookings
            FIELDS *
            WHERE customid = @iv_customer_id
            INTO TABLE @bookings.
        IF lines( bookings ) > 0.
            SELECT * FROM spfli INTO TABLE @connections
                FOR ALL ENTRIES IN @bookings
                WHERE carrid = @bookings-carrid
                AND   connid = @bookings-connid.
        ENDIF.
    ENDMETHOD.

    METHOD get_form.
        DATA(lv_form_name)      = CONV tdsfname( 'FP_TEST_03' ).
        DATA(lv_form_fm_name) = VALUE rs38l_fnam( ).
        DATA(ls_docparams)      = VALUE sfpdocparams( ).
        DATA(ls_outputparams) = VALUE sfpoutputparams( ).
        DATA(ls_formoutput)     = VALUE fpformoutput( ).

    * Get data
    get_customer_data(
        EXPORTING
            iv_customer_id = iv_customer_id
        IMPORTING
            customer_detail = DATA(customer)
```

```
bookings          = DATA(bookings)
connections       = DATA(connections) ).
```

** get name of the generated function module*

```
TRY.
  CALL FUNCTION 'FP_FUNCTION_MODULE_NAME'
    EXPORTING
      i_name      = lv_form_name
    IMPORTING
      e_funcname  = lv_form_fm_name.
  CATCH cx_fp_api INTO DATA(lx_fp_api).
  MESSAGE ID lx_fp_api->msgid TYPE lx_fp_api->msgty
    NUMBER lx_fp_api->msgno
    WITH lx_fp_api->msgv1 lx_fp_api->msgv2
         lx_fp_api->msgv3 lx_fp_api->msgv4.
  RETURN.
ENDTRY.
```

** Set output parameters and open spool job*

```
ls_outputparams-nodialog = 'X'.    " no print preview
ls_outputparams-getpdf   = 'X'.    " request PDF
CALL FUNCTION 'FP_JOB_OPEN'
  CHANGING
    ie_outputparams = ls_outputparams
  EXCEPTIONS
    cancel          = 1
    usage_error     = 2
    system_error    = 3
    internal_error  = 4
    OTHERS          = 5.
IF sy-subrc <> 0.
  MESSAGE ID sy-msgid TYPE sy-msgty NUMBER sy-msgno
    WITH sy-msgv1 sy-msgv2 sy-msgv3 sy-msgv4.
  RETURN.
ENDIF.
```

** Now call the generated function module*

```
CALL FUNCTION lv_form_fm_name
  EXPORTING
    /lbcdwb/docparams = ls_docparams
    customer          = customer
    bookings          = bookings
    connections       = connections
  IMPORTING
    /lbcdwb/formoutput = ls_formoutput
  EXCEPTIONS
    usage_error       = 1
    system_error      = 2
    internal_error    = 3
    OTHERS            = 4.
IF sy-subrc <> 0.
  MESSAGE ID sy-msgid TYPE sy-msgty NUMBER sy-msgno
```

```

        WITH sy-msgv1 sy-msgv2 sy-msgv3 sy-msgv4.

    RETURN.
ENDIF.

```

** Close spool job*

```

CALL FUNCTION 'FP_JOB_CLOSE'
EXCEPTIONS
    usage_error      = 1
    system_error     = 2
    internal_error   = 3
    OTHERS           = 4.

IF sy-subrc <> 0.
    MESSAGE ID sy-msgid TYPE sy-msgty NUMBER sy-msgno
        WITH sy-msgv1 sy-msgv2 sy-msgv3 sy-msgv4.

    RETURN.
ENDIF.

```

```

    rv_pdf = ls_formoutput-pdf.
ENDMETHOD.

```

```

METHOD merge_forms.
    DATA(lo_pdf_merger) = cl_rspo_pdf_merger=>create_instance( ).
    LOOP AT it_customers ASSIGNING FIELD-SYMBOL(<customer_id>).
        lo_pdf_merger->add_document( get_form( <customer_id> ) ).
    ENDLOOP.
    TRY.
        mv_merged_pdf = lo_pdf_merger->merge_documents( ).
        CATCH cx_rspo_pdf_merger INTO DATA(lx_pdf).
    ENDTRY.
ENDMETHOD.

```

```

METHOD send_mail.
    TRY.
        DATA(lo_mail) = cl_bcs=>create_persistent( ).

        DATA(lo_sender_address) = cl_cam_address_bcs=>create_internet_address(
            i_address_string = CONV #( 'sender@gmail.com' ) ).
        lo_mail->set_sender( lo_sender_address ).

        DATA(recipient_address) = cl_cam_address_bcs=>create_internet_address(
            i_address_string = CONV #( 'receiver@gmail.com' ) ).
        lo_mail->add_recipient( i_recipient = recipient_address ).

        DATA(lo_document) = cl_document_bcs=>create_document(
            i_type = 'htm'
            i_subject = `Adobe Form Attachment`
            i_text = VALUE #( ( CONV #( 'Form Attachment' ) ) )
            i_sender = lo_sender_address ).

        DATA(lv_merged_pdf_size) = xstrlen( mv_merged_pdf ).
        lo_document->add_attachment(
            i_attachment_type = 'PDF'

```

```

        i_attachment_subject = 'Customer Form'
        i_attachment_size = CONV #( lv_merged_pdf_size )
        i_att_content_hex = cl_bcs_convert=>xstring_to_solix( mv_merged_p
df ) ).

        lo_mail->set_document( lo_document ).
        lo_mail->set_send_immediately( abap_true ).
        DATA(lv_send_success) = lo_mail->send( ).
        COMMIT WORK.

        CATCH cx_send_req_bcs cx_address_bcs cx_document_bcs INTO DATA(lx_mail).
            MESSAGE lx_mail TYPE 'E'.

        ENDTRY.
    ENDMETHOD.
ENDCLASS.

START-OF-SELECTION.
    DATA(lo_mail) = NEW lcl_merge_form_and_send_mail( ).
    lo_mail->merge_forms( it_customers = VALUE #( ( CONV #( 12 ) )
                                                    ( CONV #( 13 ) ) ) ).
    lo_mail->send_mail( ).

```

Result:

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Customer	00000012
Number	
Date	Dec 22, 2024

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Customer	00000013
Number	
Date	Dec 22, 2024