



SAP ABAP Programming and HANA Database Tutorials

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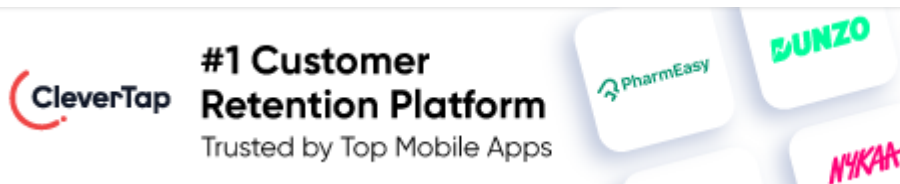
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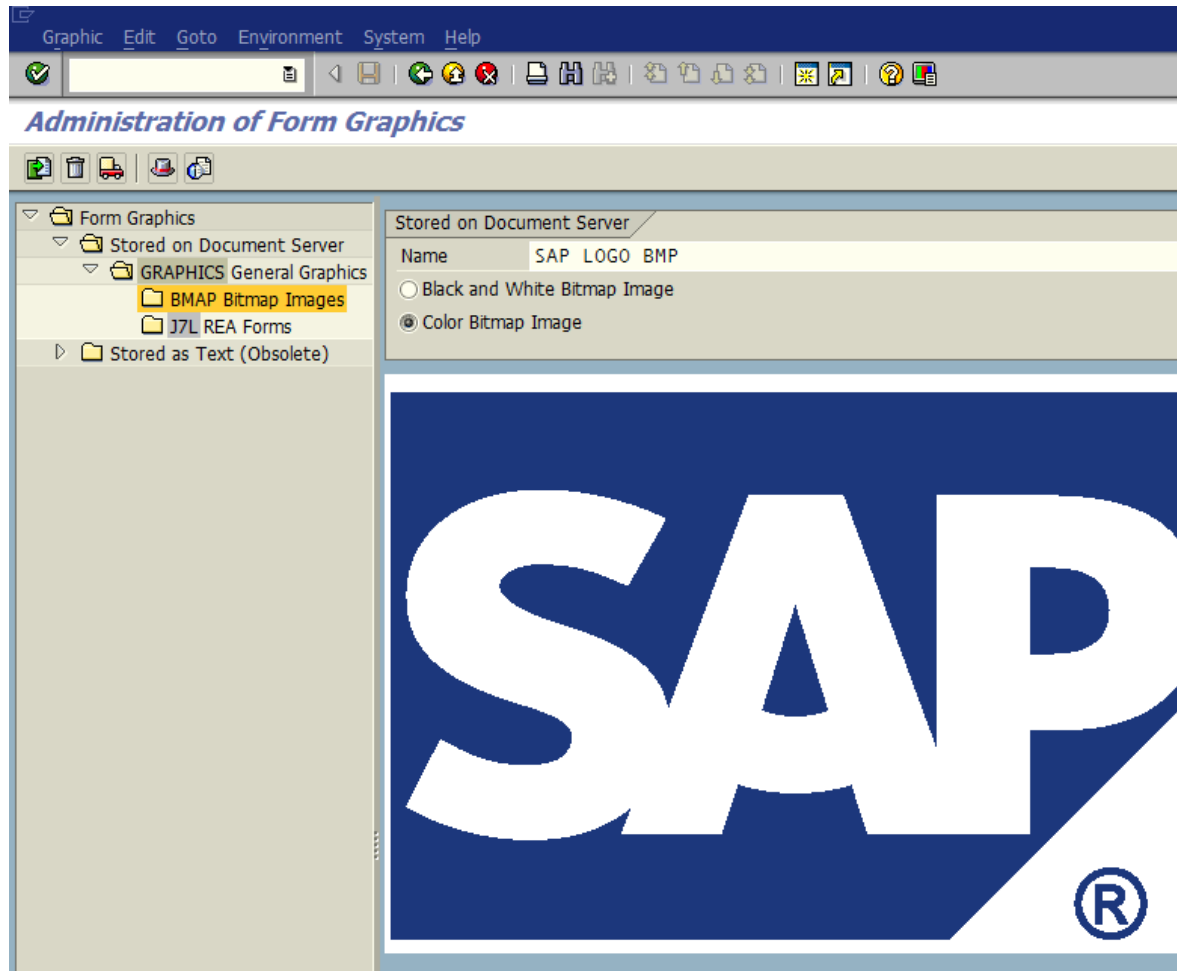
## Export Graphics from SE78 SAP Form Graphics Administration using ABAP Program

ABAP developers can export graphics from SAP Form Graphics administration SE78 transaction using ABAP report whose source codes are shared in this ABAP tutorial. Unfortunately there is not a single click solution on SE78 SAP transaction screen to export graphics, logos or export images from SAP BDS system. This ABAP tutorial provides an easy program to extract bitmap images from SAP BDS (Business Document Service) and save on a local folder as a bitmap .bmp image file.

As well as uploading bitmap images or graphics to SAP images document server, it is sometimes a requirement to download and export images from SAP document server where ABAP developers and SAP customization specialists manage using SE78 tcode.

In this SAP tutorial, I will show and demonstrate how you can export images (for this tutorial SAP LOGO BMP). This is a color bitmap image as in below SE78 transaction UI screenshot.





Export images and graphics from SAP SE78 transaction

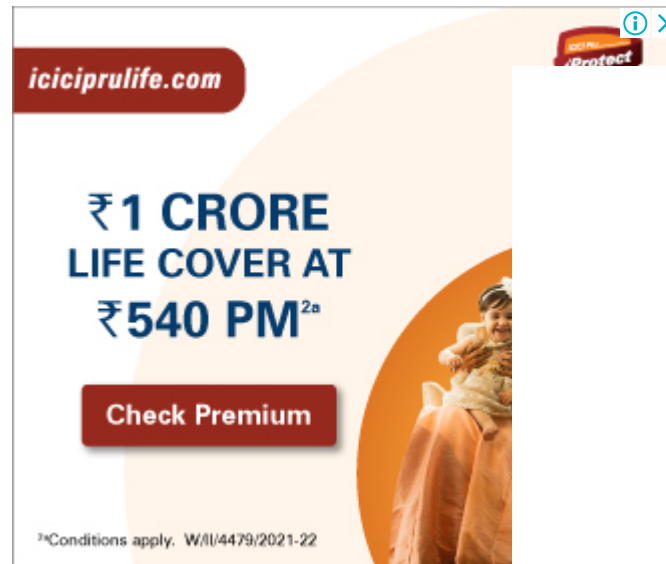


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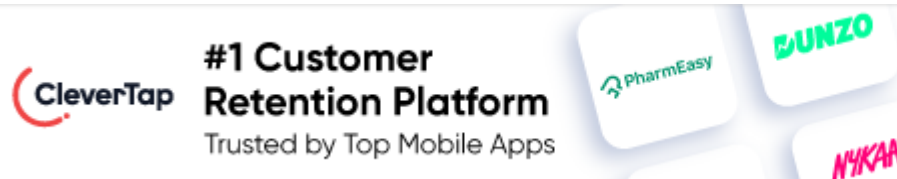
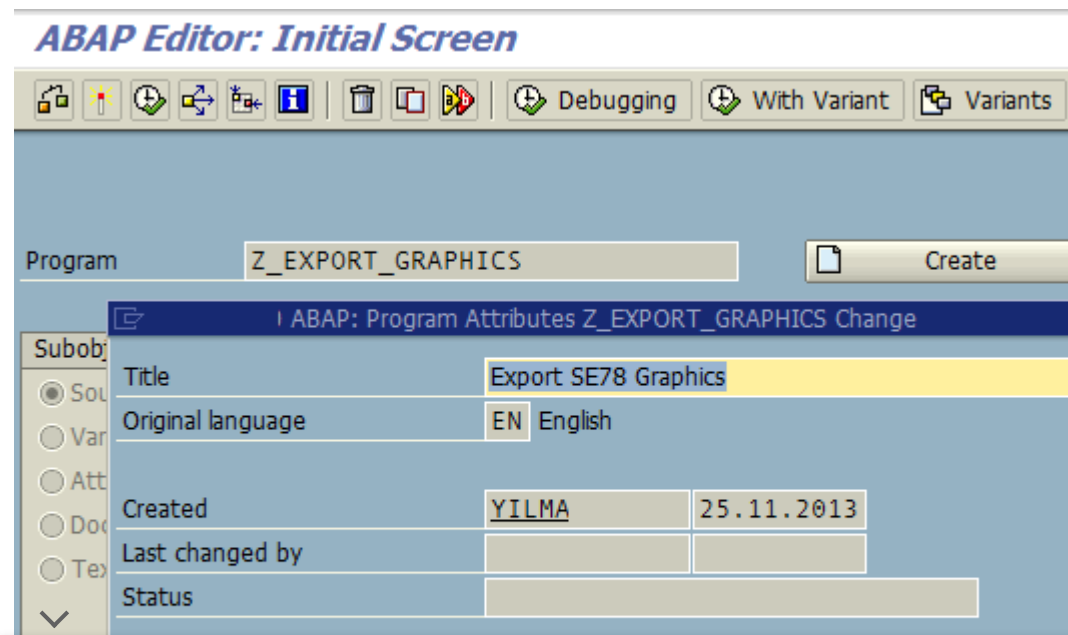
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Let's start out tutorial by creating a new ABAP report using ABAP Workbench.



First, we will start by building the selection-screen codes.

Here as you see below, the ABAP report requests a file name in an input text area.

An other parameter that the user will provide is if the image is black and white bitmap image or a color bitmap image.

This parameter is displayed using a radiobutton group in the selection screen.

```
SELECTION-SCREEN: BEGIN OF BLOCK sel WITH FRAME TITLE text-000.
```

```
PARAMETERS: pa_image LIKE rstxt-tdname.
```

```
SELECTION-SCREEN BEGIN OF LINE.
```

```
SELECTION-SCREEN POSITION 30.
```

```
PARAMETERS: bw RADIOBUTTON GROUP icol DEFAULT 'X'.
```

```
SELECTION-SCREEN COMMENT 35(30) text-001.
```

```
SELECTION-SCREEN END OF LINE.
```

```
SELECTION-SCREEN BEGIN OF LINE.
```

```
SELECTION-SCREEN POSITION 30.
```

```
PARAMETERS: color RADIOBUTTON GROUP icol.
```

```
SELECTION-SCREEN COMMENT 35(30) text-002.
```

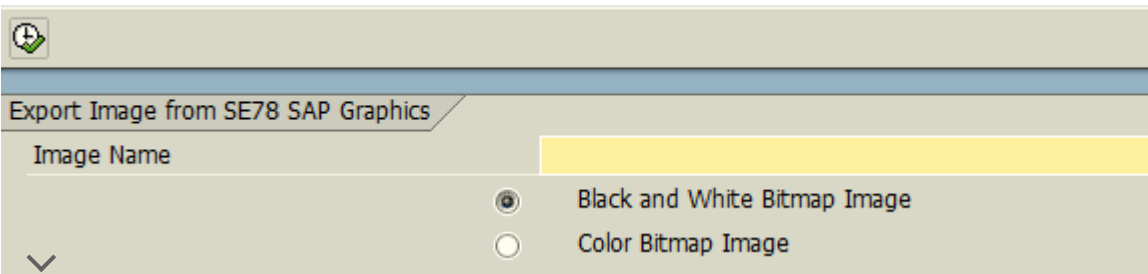
```
SELECTION-SCREEN END OF LINE.
```

```
SELECTION-SCREEN: END OF BLOCK sel.
```

Code

Above provided ABAP source codes of the SAP selection screen generates the below screen for the user interface. This selection screen enables the user to enter the name of the bitmap image which is desired to export from SAP system.

### Export SE78 Graphics



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```

CALL FUNCTION 'SAPSCRIPT_GET_GRAPHIC_BDS'
EXPORTING
  i_object = 'GRAPHICS' " STXBITMAPS-TDOBJECT
  i_name = pa_image " STXBITMAPS-TDNAME, image name
  i_id = 'BMAP' " STXBITMAPS-TDID
  i_btype = lv_tdbtype " STXBITMAPS-TDBTYPE, black/white or color
IMPORTING
  e_bytecount = lv_bytecount " I, size of binary image data
TABLES
  content = lv_content " SBDST_CONTENT, binary data
EXCEPTIONS
  not_found = 1
  bds_get_failed = 2
  bds_no_content = 3
  OTHERS = 4.

```

Code

The next step in our sample ABAP code is to call function module "**SAPSCRIPT\_CONVERT\_BITMAP**" to convert the returned binary data into bitmap file.

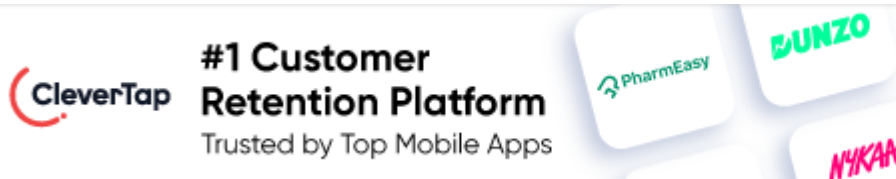
ABAP function module SAPSCRIPT\_CONVERT\_BITMAP converts graphics in BDS file format into BMP bitmap image format. Here is how ABAP developers can use SAPSCRIPT\_CONVERT\_BITMAP function module.

```

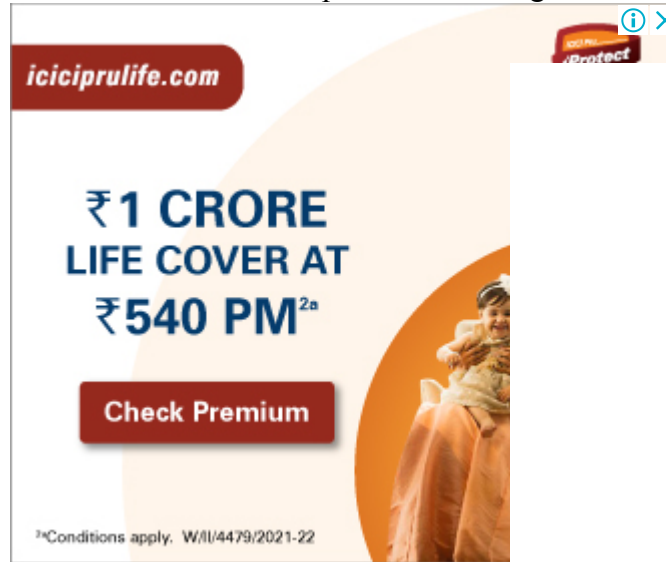
CALL FUNCTION 'SAPSCRIPT_CONVERT_BITMAP'
EXPORTING
  old_format = 'BDS' " source image file type
  new_format = 'BMP' " target image file type => .bmp
  bitmap_file_bytecount_in = lv_bytecount
IMPORTING
  bitmap_file_bytecount = graphic_size
TABLES
  bitmap_file = graphic_table
  bds_bitmap_file = lv_content " SBDST_CONTENT
EXCEPTIONS
  OTHERS = 1.

```

Code



ABAP developers should set the filename parameter of the **WS\_DOWNLOAD** ABAP function module in the format including the full file path. In this ABAP tutorial sample case, I used a constant file folder to store exported BDS images.



Perhaps it is a better idea to use [ABAP folder selector or Display File Dialog control using cl\\_gui\\_frontend\\_services=>FILE\\_SAVE\\_DIALOG method](#). But this is a topic of an other ABAP tutorial.

```
CALL FUNCTION 'WS_DOWNLOAD'
  EXPORTING
    bin_filesize = graphic_size
    filename = lv_export_file_name " 'u:\export.bmp'
    filetype = 'BIN'
  TABLES
    data_tab = graphic_table
  EXCEPTIONS
    invalid_filesize = 1
    invalid_table_width = 2
    invalid_type = 3
    no_batch = 4
    unknown_error = 5
    gui_refuse_filetransfer = 6.
```

REPORT z\_export\_graphics.

SELECTION-SCREEN: BEGIN OF BLOCK sel WITH FRAME TITLE text-000.

PARAMETERS: pa\_image LIKE rstxt-tdname.

SELECTION-SCREEN BEGIN OF LINE.

SELECTION-SCREEN POSITION 30.

PARAMETERS: bw RADIOBUTTON GROUP icol DEFAULT 'X'.

SELECTION-SCREEN COMMENT 35(30) text-001.

SELECTION-SCREEN END OF LINE.

SELECTION-SCREEN BEGIN OF LINE.

SELECTION-SCREEN POSITION 30.

PARAMETERS: color RADIOBUTTON GROUP icol.

SELECTION-SCREEN COMMENT 35(30) text-002.

SELECTION-SCREEN END OF LINE.

SELECTION-SCREEN: END OF BLOCK sel.

CHECK pa\_image IS NOT INITIAL.

DATA :

lv\_bytecount TYPE i,

lv\_tdbtype LIKE stxbitmaps-tdbtype,

lv\_content TYPE STANDARD TABLE OF bapiconten INITIAL SIZE 0.

DATA: graphic\_size TYPE i.

DATA:

BEGIN OF graphic\_table OCCURS 0,

line(255) TYPE x,

END OF graphic\_table.



DATA: lv\_export\_file\_name TYPE RLGRAP-FILENAME.



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```
lv_tdbtype = 'BMON'. " Black and White Bitmap Image
ELSE.
lv_tdbtype = 'BCOL'. " Color Bitmap Image
ENDIF.
```

```
*** get binary data from SAP BDS for specific graphics image
```

```
CALL FUNCTION 'SAPSCRIPT_GET_GRAPHIC_BDS'
```

```
EXPORTING
```

```
  i_object = 'GRAPHICS' " STXBITMAPS-TDOBJECT
```

```
  i_name = pa_image " STXBITMAPS-TDNAME
```

```
  i_id = 'BMAP' " STXBITMAPS-TDID
```

```
  i_btype = lv_tdbtype " STXBITMAPS-TDBTYPE
```

```
IMPORTING
```

```
  e_bytecount = lv_bytecount " I
```

```
TABLES
```

```
  content = lv_content " SBDST_CONTENT
```

```
EXCEPTIONS
```

```
  not_found = 1
```

```
  bds_get_failed = 2
```

```
  bds_no_content = 3
```

```
  OTHERS = 4.
```

```
CHECK sy-subrc IS INITIAL.
```

```
*** convert graphics in BDS file format to BMP bitmap image format
```

```
CALL FUNCTION 'SAPSCRIPT_CONVERT_BITMAP'
```

```
EXPORTING
```

```
  old_format = 'BDS' " source image file type
```

```
  new_format = 'BMP' " target image file type => .bmp
```

```
  bitmap_file_bytecount_in = lv_bytecount
```

```
IMPORTING
```

```
  bitmap_file_bytecount = graphic_size
```

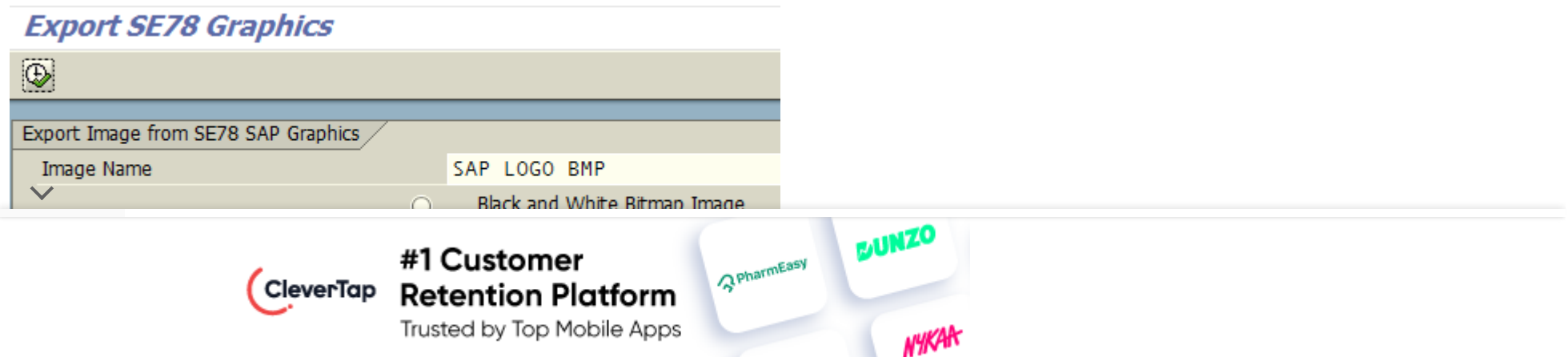
```
TABLES
```



```
CHECK sy-subrc IS INITIAL.
```

```
CALL FUNCTION 'WS_DOWNLOAD'  
  EXPORTING  
    bin_filesize = graphic_size  
    filename = lv_export_file_name " 'u:\export.bmp'  
    filetype = 'BIN'  
  TABLES  
    data_tab = graphic_table  
  EXCEPTIONS  
    invalid_filesize = 1  
    invalid_table_width = 2  
    invalid_type = 3  
    no_batch = 4  
    unknown_error = 5  
    gui_refuse_filetransfer = 6.  
  
IF sy-subrc <> 0.  
  MESSAGE ID sy-msgid TYPE sy-msgty NUMBER sy-msgno  
    WITH sy-msgv1 sy-msgv2 sy-msgv3 sy-msgv4.  
ENDIF.  
Code
```

After you activate your ABAP report, you can now export SAP logo from SAP BDS system. If you run the ABAP program z\_export\_graphics and enter "SAP LOGO BMP" as the name of the bitmap image and choose Color Bitmap Image option and execute the report, a graphics file will be created in the target folder with the same image name.



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