SAPscript

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Operations on the whole SAPscript form and concepts

How can I debug my SAPscript?

Go to the transaction SE71.
Enter the form name.
Choose the menu Utilities->Activate Debugger to enable debugging.

Or call standard program RSTXDBG.

To stop debugging, you must print the SAPscript form, and click Exit button in the debugger window when it is displayed.

I have created a SAPscript in language DE. Now I need to translate it to EN. How could I do this?

Open your SAPScript in transaction SE71.
In the Header screen, in the Language Attributes Option, choose Translate to... Option to translate to other languages.

If any text modules or texts have to be translated within the SAPscript, then it can be done using SE63 transaction.

How can I copy SAPscripts from one client to another, or export/import them?

In the transaction SE71, enter the Form name and choose the menu, Utilities->Copy from client to copy SAPscripts from one client to another.

Use RSTXSCR to import/export SAPscripts.

How can I change the page size of the layout?
In the SAPscript, Goto -> Header -> Basic Settings
Here you could configure the page settings and their orientation.

How to find the Driver Program for the given SAPscript?

1. Go to the Table TNAPR using SE11
2. Get the Contents of the Table(CNTRL+SHIFT+F10)
3. On the Table Content Selection Screen, Type the SAPscript Name for which we have find the Driver Program in the field FONAM and execute(F8)
4. PGNAM field of the result display contains the Driver Program Name for our SAPscript

How can I get the landscape format in SAPscript?

In the form go to basic settings---> you can find a landscape option --> click on it and at the bottom. You can find the page option enter the page name for which you want to assign ladscape format.

How many MAIN windows are allowed for SAPscript?

SAPscript allows 99 MAIN windows

Each Page can consists up to 99 windows. Each main window is assigned a consecutive identifying number (0..98).

This is mainly used for label printing or address printing.

Is it possible to create a SAPscript without a main window?

(this can be used for static forms which always print the same number of pages)
Yes, but you must call WRITE_FORM function module at least once (even with a non-existing element or window!)
If there is more than one page, you may need to force the next page to be printed by calling CONTROL_FORM function module with command NEW-PAGE (PAGE2 for example)

Where are the SAPscript form names?

Table STXH, with field values tdobject = 'FORM' and tdid = 'TXT' and tdname = form name

How to assign own form to a standard print program?

Most of applications use NACE transaction, but there are also Print Workbench, Post-Processing Framework.

How to convert a sapscript to Smart Form?

Start SMARTFORMS transaction, Goto Menu path Utilities -> Migration -> Import SAPscript Form.

To mass migrate, use the following:

1. Execute the program SF_MIGRATE.
2. Select the names and the language of the SAPscript forms and choose Execute.
   The system creates the Smart Forms under the names of the SAPscript forms plus the extension _SF.
   It displays a list of the migrated forms.
3. To change and adapt a form, go to transaction SMARTFORMS. Then activate the changed Smart Form.

What are the different types of windows in SAPscripts?

Windows are defined in the Layout sets which define the position and the text to displayed.

The different types of windows are:

- MAIN - Main Window
  The main window is a continuous window which can extend over several pages. If the text in the main window fills up a page, a new page
is created.

Only one main window can be defined in the SAPscript whereas up to 100 instances of main window can be created in a page.

- **VAR - Variable Window**
  This window can have the variable contents displayed on them. The contents of the window cannot exceed the window size. The content can be formatted for each page.

- **CONST - Constant Window**
  The constant window can have a fixed content and is formatted only once.

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**Elements**

**How do I create Boxes in SAPscript?**

You can create Boxes in the SAPscript using the BOX command specifying the x,y co-ordinates and the width and the height.

```plaintext
/: BOX XPOS '0' CM YPOS '0.5' CM WIDTH '9.2' CM HEIGHT '3.5' CM FRAME 8 TW
```

**How can I create a Shaded box?**

Use the addition INTENSITY in the BOX command to apply gray shading to the boxes.

```plaintext
/: POSITION XORIGIN '2' CM YORIGIN '7.5' CM
/: BOX WIDTH '18' CM HEIGHT '1.25' CM INTENSITY 15
```

This will create a box with the given height and width and shading it with 15% intensity (you also need to provide X,Y positions).

**How do I set tabs between the fields in display?**

To enter a tab, use ,, (2 commas). Then, in the Paragraph Format tab, create a new paragraph format. In the "Tabs" Tab, enter the tab position and the alignment for the fields.

**How do I create standard texts for the SAPscripts?**

You can create standard texts using the transaction SO10. Then to insert these standard texts in the SAPscript choose the menu, Insert->Text->Standard and choose the standard text that you want to choose.

Alternatively, you can display standard texts in your SAPscripts using the command:

```plaintext
/: INCLUDE ZSTEXT OBJECT TEXT ID ST LANGUAGE EN
```

- where ZSTEXT refers to the Standard Text name.

**How can I Word Wrap the text being displayed in SAPscript?**

Use the Function Module RKDWORD_WRAP to wrap the text and use this for output.

**How can I display barcodes in SAPscripts?**
Create a character format in the SAPscript.
Choose the Bar Code for the character format.

And finally to display barcodes, in the command enter:

```
<C1>&vbeln&amp;
```

- where C1 is the character format created and vbeln is the variable for which the barcode is to be created.

**How can I print logos in SAPscripts?**

TIFF files (*.tif):

- Use the program RSTXLDMC to convert the TIFF file to standard text.
- Print this using the INCLUDE command:
  - INCLUDE ZLOGO OBJECT TEXT ID ST
- Bitmap files (*.bmp)
  - Go to transaction SE78
  - Choose BMP under GRAPHICS
  - Choose Import Graphic (F5)
  - Select the image and upload
  - In SE71 choose Insert-&gt;Graphics and then choose the image for display

**How can I prevent page-break in the message that is to be displayed?**

Enclose the text that you want to prevent page-break in PROTECT... ENDPROTECT
SAPscript will ensure that each line of this text is printed together on the same page.

- If SAPscript finds that the text cannot be printed on that page completely a implicit page break occurs and the text is printed on the next page

```
/: PROTECT
  * Text
  * Within
  * The same page
/: ENDPROTECT
```

**What are the various text formatting options in SAPscript?**

**SAP Library - SAPscript - Formatting options**

<table>
<thead>
<tr>
<th>Formatting option</th>
<th>Meaning</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>&amp;symbol(N)&amp;</td>
<td>Display N first characters of symbol</td>
<td></td>
</tr>
<tr>
<td>&amp;symbol(Z)&amp;</td>
<td>Omit leading zeros</td>
<td></td>
</tr>
<tr>
<td>&amp;symbol(S)&amp;</td>
<td>Omit leading sign</td>
<td></td>
</tr>
<tr>
<td>&amp;symbol(&lt;)&amp;</td>
<td>Display leading sign to the Left (you may also use :: SET SIGN LEFT)</td>
<td>forum: Ignored if the domain has &quot;sign&quot; option disabled (sign is never printed in that case)</td>
</tr>
<tr>
<td>Symbol</td>
<td>Description</td>
<td>Notes</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
<td>-------</td>
</tr>
<tr>
<td>&amp;&gt;&amp;</td>
<td>Display leading sign to the right (you may also use /: SET SIGN RIGHT)</td>
<td><em>Forum:</em> Ignored if the domain has “sign” option disabled (sign is never printed in that case)</td>
</tr>
<tr>
<td>(C)</td>
<td>Compress spaces</td>
<td></td>
</tr>
<tr>
<td>(N)</td>
<td>Display upto N decimal places</td>
<td><em>Note:</em> Do not use a field related to a currency code or unit of measure (as these last define the number of decimals), otherwise you’ll get error SSFCOMPOSER602 (Field &amp;2: Incorrect formatting option &quot;&amp;1&quot;) while outputting the form</td>
</tr>
<tr>
<td>(T)</td>
<td>Omit thousands separator</td>
<td></td>
</tr>
<tr>
<td>(R)</td>
<td>Right justified</td>
<td></td>
</tr>
<tr>
<td>(i)</td>
<td>Suppress output of the initial value</td>
<td></td>
</tr>
<tr>
<td>(K)</td>
<td>Ignore conversion routine</td>
<td><em>Forum:</em> “K option works only for Character-like variables (char, date, time, numc), string and integer. It doesn’t work for packed, float and other types (see routine CONVERT_SYMBOLVALUE in include LSTXVFCD)”</td>
</tr>
</tbody>
</table>

You may combine options, for example: &symbol(8R)& which means right-aligned inside 8 characters

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### Which are frequently Used System Variables in SAPscript?

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&amp;DATE&amp;</td>
<td>Current date</td>
</tr>
<tr>
<td>&amp;DAY&amp;</td>
<td>Day</td>
</tr>
<tr>
<td>&amp;MONTH&amp;</td>
<td>Month</td>
</tr>
<tr>
<td>&amp;YEAR&amp;</td>
<td>Year</td>
</tr>
<tr>
<td>&amp;TIME&amp;</td>
<td>Time of the day</td>
</tr>
<tr>
<td>&amp;HOURS&amp;</td>
<td>Hours</td>
</tr>
<tr>
<td>&amp;MINUTES&amp;</td>
<td>Minutes</td>
</tr>
<tr>
<td>&amp;SECONDS&amp;</td>
<td>Seconds</td>
</tr>
<tr>
<td>&amp;PAGE&amp;</td>
<td>Page</td>
</tr>
<tr>
<td>&amp;NEXTPAGE&amp;</td>
<td>Next page number</td>
</tr>
<tr>
<td>&amp;SPACE&amp;</td>
<td>Blank</td>
</tr>
<tr>
<td>&amp;ULINE&amp;</td>
<td>Underline</td>
</tr>
<tr>
<td>&amp;VLINE&amp;</td>
<td>Vertical line</td>
</tr>
<tr>
<td>&amp;NAME_OF_MONTH&amp;</td>
<td>Name of the Month</td>
</tr>
<tr>
<td>&amp;SAPSCRIPT-FORMPAGES&amp;</td>
<td>Total number of pages in currently formatted layout set</td>
</tr>
<tr>
<td>&amp;SAPSCRIPT-JOBPAGES&amp;</td>
<td>Total number of pages in currently formatted print request</td>
</tr>
</tbody>
</table>

For more information:
How can I format the date being displayed in the SAPscript?

The date fields in SAPscripts can be formatted using the SET DATE MASK control command.

```
/: SET DATE MASK = 'MMMM DD, YY'
```

This displays the date as : September 26, 07

The following are the codes that can be used in the date mask:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>YY</td>
<td>Year (2 digits)</td>
</tr>
<tr>
<td>YYYY</td>
<td>Year (4 Digits)</td>
</tr>
<tr>
<td>MM</td>
<td>Month (2 Digits)</td>
</tr>
<tr>
<td>MMM</td>
<td>Month Name (Abbreviated)</td>
</tr>
<tr>
<td>MMMM</td>
<td>Month Name (Full)</td>
</tr>
<tr>
<td>DD</td>
<td>Day as two digits</td>
</tr>
<tr>
<td>DDD</td>
<td>Day name (Abbreviated)</td>
</tr>
<tr>
<td>DDDD</td>
<td>Day name</td>
</tr>
</tbody>
</table>

Using the SET DATE MASK causes the subsequent date fields to be displayed using the same formatting. To return to the default formatting use the following command:

```
/: SET DATE MASK = ' '
```

For more information, see SAP Library - SAPscript - Formatting Date Fields: SET DATE MASK

How can I format the time in the SAPscript?

Similar to SET DATE MASK for date fields we can use SET TIME MASK for formatting time fields.

```
/: SET TIME MASK = 'HH hrs MM min SS sec'
```

This displays the time as : 11 hrs 43 min 37 sec'

The following are the codes that can be used in the time mask:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HH</td>
<td>Hours</td>
</tr>
<tr>
<td>MM</td>
<td>Minutes</td>
</tr>
</tbody>
</table>
The time formatting can be reset to the default setting using:

```
/: SET TIME MASK = ' ' 
```

For more information, see SAP Library - SAPscript - Formatting Date Fields: SET TIME MASK

**What is the difference between the SAPscript texts, 'Customer &KNA1-KUNNR&' and '&Customer KNA1-KUNNR&'?**

- In the first case of 'Customer : &KNA1-KUNNR&', the text 'Customer : ' is displayed regardless of the variable KNA1-KUNNR even if it has initial value
- In the second case of '&Customer : KNA1-KUNNR&', the text 'Customer : ' and KNA1-KUNNR is displayed only when the variable KNA1-KUNNR has non-initial value

For more information, see SAP Library - SAPscript - Formatting options - Preceding and Subsequent Texts (Pre-Text / Post-Text)

**What is the use of the POSITION and SIZE command in SAPscripts?**

The POSITION command is used to x, y coordinate position which is used by the BOX command. The offset from the current window positions are specified which could be either positive or negative.

```
/: POSITION XORIGIN '2' CM YORIGIN '-1.5' CM 
```

Similarly the SIZE command sets the width and height parameters.

```
/: SIZE WIDTH '10' TW HEIGHT '10' TW 
```

**Control commands**

**How to Use the New-Window Command?**

You can use the NEW-WINDOW command to call the other main window explicitly in the form, even if the current main window is not full. We can create up to 99 Main Windows. This Main windows are generally used to create labels or to write Addresses.Need to write this in the Main window.

```
/: NEW-WINDOW 
```

**How can I trigger new page in SAPscripts?**

Use the command NEW-PAGE to trigger a new page in SAPscript.
You can explicitly trigger a page not in sequence by specifying the name of the page with the command NEW-PAGE:

```
/: NEW-PAGE <pagename>
```

**How can I set the header and footer in the main window?**

The TOP...ENDTOP and BOTTOM...ENDBOTTOM commands are used to set the header and footer texts in the main window respectively. These texts will be displayed on the start and end of every new page in the output. To disable these texts, enclose empty commands between the commands. Example:

```
/: TOP
/: ENDTOP
```

**What the conditional statements used in SAPscripts?**

The following conditional statements are used in SAPscripts:

```
/: IF...ELSE/ELSEIF...ENDIF
/: CASE...ENDCASE
```