**SMARTFORMS**

1. **How can I insert symbols in Smart Forms?**

Select the Text node.  
Change Editor (Click the button above Check near the Editor)  
Go to menu Include->Characters->SAP Symbols  
Choose the SAP symbol that you want to insert.

1. **How can I display the total number of pages in Smart Forms?**

Use SFSY-FORMPAGES to display the total number of pages in the Smart Forms

|  |  |
| --- | --- |
| &SFSY-PAGE& | Current page number |
| &SFSY-FORMPAGES& | Total number of pages in the currently formatted layout set |
| &SFSY-JOBPAGES& | Total number of pages in the currently formatted print request |

1. **What SFSY system fields are available?**

|  |  |
| --- | --- |
| &SFSY-COPYCOUNT& | Original-1, first copy-2 |
| &SFSY-DATE& | Displays the date, you determine the display format in the user master record |
| &SFSY-TIME& | Displays the time of day in the form HH:MM:SS |
| &SFSY-USERNAME& | Username |
| &SFSY-WINDOWNAME& | Contains the name of the current window (string in the Window field) |
| &SFSY-PAGE& | Inserts the number of the current print page into the text. You determine the format of the page number (for example, Arabic, numeric) in the page node |
| &SFSY-FORMPAGES& | Displays the total number of pages for the currently processed form. This allows you to include texts such as' Page x of y' into your output |
| &SFSY-JOBPAGES& | Contains the total page number of all forms in the currently processed print request |
| &SFSY-PAGENAME& | Contains the name of the current page (string in the Page field) |
| &SFSY-PAGEBREAK& | Is set to 'X' after a page break |
| &SFSY-MAINEND& | Is set as soon as processing of the main window on the current page ends |
| &SFSY-EXCEPTION& | Contains the name of the raised exception. You must trigger your own exceptions, which you defined in the form interface, using the user exception macro (syntax: user exception <exception name >) |

1. **Why SFSY-FORMPAGES is output as a star "\*" instead of the total number of pages?**

There may not be enough space in the window to display the variable, either increase the window dimensions or condense the spaces using &SFSY-FORMPAGES(3CZ)&, or change the window type to Final.

1. **What are the various text formatting options in Smart Forms?**

|  |  |
| --- | --- |
| &symbol(Z)& | Omit Leading Zeros |
| &symbol(S)& | Omit Leading Sign |
| &symbol(<)& | Display Leading Sign to the Left |
| &symbol(>)& | Display Leading Sign to the Right |
| &symbol(C)& | Compress Spaces |
| &symbol(.N)& | Display up to N decimal places |
| &symbol(T)& | Omit thousands separator |
| &symbol(R)& | Right justified |
| &symbol(I)& | Suppress output of the initial value |

1. **How can I provide a background shading to the table?**

In the Table Painter, you can specify the colour and shading for the table lines.

1. **How to avoid an element to be printed on 2 pages?**

To define Page Protect for a node go to the Output options and check the **Page Protection** checkbox.

**8.What is the difference between Template and Table in Smart Forms?**

The Template contains a fixed number of rows and columns, where the output is fixed.  
The Table can have variable number of rows.

**9. Where can I define the paragraph and character format for the Smart Forms?**

The paragraph and character format for the Smart Forms can be defined in the transaction SMARTSTYLES

#### 10. Where can I provide the input parameters to the Smart Form?

The input parameters for the Smart Form can be defined in Global Settings->Form Interface.

#### 11. Where can I define my own global types for the Smart Form?

The global types (within the Smart Form) can be defined in Global Settings->Global Definitions->Types  
The types defined here will be global through the entire Smart Form.  
Also the form routines can be defined Global Settings->Global Definitions->Form Routines

#### 12. Though I declared a global variable, why do I get error variable is not defined?

Whenever using the global variables in the Program Lines, you must enter the variable name in Input Parameters of the if you are going to use/read the variable. If you are going to both read/write the variable, enter the same in Output Parameters.

#### 13. I have created a table node for display. Where can I check the condition which must satisfy to display the table?

The conditions can be defined in the Conditions tab. In Smart Forms all the nodes have a condition tab where you can specify the condition to be satisfied to access the node.

#### 14. How to force a page break within a table?

Put a Command node inside the table that forces a NEWPAGE on whatever condition you want.

#### 15. How can I make the Smart Forms to choose a printer name by default?

In the CALL FUNCTION of the Smart Form Function Module, set the output options parameter to set the printer name.

The output options is of the type SSFCOMPOP which contains the field TDDEST. Set the TDDEST field to your default printer name.

#### 16. How can I make the Smart Forms to display a print preview by default without displaying the popup for print parameters?

In the SSF\_OPEN function module,  
Set the OUTPUT OPTIONS paramter TDDEST to your printer name.  
Set the CONTROL PARAMETERS and control parameters as shown below,

|  |
| --- |
| control-preview = 'X'.  control-no\_open = 'X'.  control-no\_close = 'X'.  control-no\_dialog = 'X'.  control-device = 'PRINTER'.  control\_parameters-no\_dialog = 'X'.  control\_parameters-no\_open = 'X'.  control\_parameters-no\_close = 'X'.  OUTPUT\_OPTIONS-TDDEST = 'PRINTER NAME'.  OUTPUT\_OPTIONS-TDNOPRINT = 'X'.    CALL FUNCTION 'SSF\_OPEN'    EXPORTING      output\_options     = output\_options      control\_parameters = control      user\_settings      = ' '    EXCEPTIONS      formatting\_error   = 1      internal\_error     = 2      send\_error         = 3      user\_canceled      = 4      OTHERS             = 5. |

#### 17. How to debug Smart Forms?

* By executing the Smart Form in test mode, the function module editor is displayed, and then you may set break-points (do not add neither BREAK-POINT statement nor BREAK as it pollutes the code, and sometimes it is forgotten to be removed).
  + If you want to debug a particular Smart Form node, insert a "Program Line" node just above, where you enter BREAK your User Name statement.

#### 18. How to get the Smart Form as a PDF?

If you don't want to generate the spool, When you call the smart form, you can request to get the OTF data (GET OTF field of CONTROL\_PARAMETERS parameter), then you convert the OTF data using CONVERT\_OTF function module.  
 Or

you can call RSTXPDFT4 and enter the spool number.

#### 19. Why my Smart Form dumps after transporting it to PROD Server?

It works fine in DEV. After transporting it to PROD, there is no Function module generated for this Smart Form.

The Smart Form that is created in the Development may not have the same name in the Production server. So it is always advised to use the Function Module SSF\_FUNCTION\_MODULE\_NAME to get the Function Module name by passing the Smart Form name.

|  |
| --- |
| DATA: fm\_name TYPE rs38l\_fnam.    CALL FUNCTION 'SSF\_FUNCTION\_MODULE\_NAME'    EXPORTING      formname           = 'ZSMARTFORM'    IMPORTING      fm\_name            = fm\_name    EXCEPTIONS      no\_form            = 1      no\_function\_module = 2      OTHERS             = 3.  IF sy-subrc <> 0.    MESSAGE ID sy-msgid TYPE sy-msgty NUMBER sy-msgno    WITH sy-msgv1 sy-msgv2 sy-msgv3 sy-msgv4.  ENDIF.    CALL FUNCTION fm\_name   EXCEPTIONS      formatting\_error = 1      internal\_error   = 2      send\_error       = 3      user\_canceled    = 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.  ENDIF. |

20. The Height of MAIN Window in all the Pages of SMARTFORM must be **Same**. TRUE/FALSE?

FALSE

20. The Width of MAIN Window in all the Pages of SMARTFORM must be **Same**. TRUE/FALSE?

TRUE

**What Are Smart Forms In Sap System?**

**SAP Forms were used mainly for the external business communications such as to raise the PO to VENDORS, To Create SALES ORDER FORMS and INVOICE Printing, Employee Offer Letters and Payslips. ETC.**

Transaction Code to create and maintain forms is SMARTFORMS

SAP Smartform is a graphical user interface tool to create and maintain forms. SAP Smart Forms supports printer, fax, e-mail or internet (XML) as its output medium.

SAP Smartform is a tool for the maintenance of forms on which application data from the SAP system can be output. Depending on the application, the number of forms to be printed can be very high, and they might have to be printed in a short period of time, in a mass printing.

Examples of mass printing are monthly invoices sent by telecom companies or salary statements.

**How Many Main Windows Can We Have In A Smartform?**

In Smart Forms you can have only one main window. And that too its width should be same in all the pages whereas height can be different. Only one main window per smartforms is allowed.

**What Are The Types Of Windows Available In Smartforms?**

Four Types of windows available in Smart Forms.

1. Main Window
2. Secondary Window
3. Copies Window
4. Final Window

**Explain The Significance Of Main Window?**

Basically, we use main window when there is a need to display text or data which can cover several pages. Say there is a requirement to display data of all the rows of a table (a table in which you are not very sure as to how many row it has), in such cases we always use main windows.

As soon as a main window is completely filled with text/data, the system continues to display the text/data in the main window of the next page. It automatically triggers the page break.

Only one window can be defined in a form as main window. The main window can be called in other pages of the form but it must have the same width on each page, but can differ in height.

A page without main window must not call itself as next page, since this would trigger an endless loop. In such a case, the system automatically terminates after three pages.

**Explain The Significance Of Secondary Window?**

Basically, secondary window is used to display text or data output with a fixed length.

Secondary windows are used when there is a need to display text and data in a predetermined output area. There is no flow text display with page break.

If we position a secondary window with the same name on several pages, the system displays the contents of this secondary window on each page.

Text & data that do not fit into the secondary window are truncated and not displayed.

**Explain The Significance Of Copies Window?**

Basically, Copies Window is a special type of secondary window for making pages as copy or original. This window type is used to output data either on original, or on copies, or both.

In simple words, Copies window is to be used when there is a requirement to print copies of the pages.

Copies window is used to define an output area for the print output, whose content you want to appear either only on the copy or only on the original. This allows you to flag copies as copies when the form is printed.

**Explain The Significance Of Final Window?**

Final window is to be used where there is a requirement to show/display details that has to be processed only at the end of the form processing.

The windows in a page are processed from top to bottom. So the execution first skips all the Final windows and completes the processing of other windows. Once all the non-final windows are processed, the Final windows are processed from top to bottom.

For example if there is a requirement to display the total value of all the items on the first page but the total value is known only at the end of the form processing, we can use the Final window for displaying the total value. The sum of line items is calculated in the MAIN window.

**What Is The Difference Between Tables & Template Node?**

Template contains a fixed number of rows and columns, where the output is fixed where as a table can have variable number of rows. Templates are also preferred where there is a need of proper alignment. Templates are used to print tables whose layout and rows are fixed and known before the application program runtime. Example: Tax Forms

Template is a static entity i.e. its dimensions cannot be changed at run time whereas Table is a dynamic entity i.e. its dimensions can be changed at run time. Hence, based on the data, it can last from one page to multiple pages. For line items display, normally table is used because one does not have prior information about the number of line items and no of pages.

Table node has 3 components- HEADER, ITEM and FOOTER

1. The Header component will be executed once.
2. The Item component can be used to process/display table contents.
3. At the end footer will be executed.

Templates can be used to define the following:

1. No. of rows and cell
2. Height of each row
3. Width Of individual cells
4. Separators or frames to be displayed or not
5. Alignment of the table in the window

Tables are used to print dynamic data which is not known before the application program runtime. Example: Material list Of Purchase orders.

Tables node to be used only in main window and no such fixed height can be set for table rows.

**How Do You Find The Name Of The Function Module For A Smartform? When Is This Function Module Created?**

The function module for Smartform is created when the Smartform is activated. You can find the name of the Function Module for a Smartform by going to Environment --> Function Module Name.

**How can you move a smartform from one SAP system to another without using SAP Transports?**

By using Upload/Download feature from Smartforms tcode.

Download the Smartforms from one system and save it as an XML file.

And XML File can be Upload it to new Smartform name in another system.

**What Are The Text Types Available In Smart Form?**

There are 4 different types of Text available in Smart Forms. They are:

1. Text Element
2. Text Module
3. Include Text
4. Dynamic Text

**How do you achieve Page Protection in Smartform?**

While one can use the PROTECT ..... ENDPROTECT command for SAP-Scripts, for Smartforms the Page-Protection checkbox can be used to ensure page protection

**How do you write Smartform Code In Driver Program?**

step1: in SE11 create a flat structure: zty\_tab.

Eg: MATNR TYPE MATNR,

MBRSH TYPE MBRSH.

Step2: In Smartform Go to Forminterface --> under Table Create table: IT\_TAB like zty\_tab.

under import ---> i\_matnr1 type matnr.

i\_matnr2 type matnr.

Step3: In Smartform Go to GLOBAL definition --> under global data: wa\_tab type zty\_tab.

no code and no loop .....Only table and then no loop option in the smartform only call the table in smartform

and loop at it\_tab into wa\_tab directley in Smartform table directly.

Write the SQL code in smartform driver program SE38 TCode.

Data IT\_TAB2 TYPE STANDARD TABLE OF ZTY\_TAB.

start-of-selection.

Then SQL code….. Select stmt.

**What’s the reason to declare the rs38l\_fnam in Smartforms Driver Program?**

I have a smartform which works fine in DEV Server After transporting it to PROD,

there is no Function module generated for this smartform.

As a result my program dumps in PROD?

The Smartform that is created in the Development may not have the same name in the Production

server. So it is always advised to use the Function Module SSF\_FUNCTION\_MODULE\_NAME

to get the Function Module name by passing the Smartform name.

DATA: fm\_name TYPE rs38l\_fnam.

**How Do You Debug A Smart Form?**

By Putting a break point on the generated function module of the Smartform, one can debug it.

To debug a smartform in quality or testing system, go to t-code SMARTFORMS. Enter the name of the smartform if you know or find the name of the smartform name from NACE T-Code and display the smartform.debug-smartforms-1Find the statement in the smartform where you want to place the break-point.debug-smartforms-2Go to menu Environment –> Function Module Name to get the name of the function module for the Smartform.debug-smartforms-3Copy the function module name in the popup. debug-smartforms-4Go to tcode SE37 (Function Builder).

**What Are Text Modules In Smart Forms? What Are The Advantages Of Using Text Module?**

A Text Module acts as some sort of container of text, which makes reuse of text easier. There are texts that frequently appear in different forms eg Footer text for the company terms and conditions. Text Modules can be used to store these texts centrally in the system. This detaches text maintenance from form maintenance, with the result that there will be no need to call the Form Builder to edit individual texts.

Text modules can be maintained using smartforms transaction by selecting last radio button. The text module is maintained exactly like the Text element. Text literals as well as fields can be written in the text module. Fields of the Text module take values from the Smart Form from which it is called. Since a Text Module is a separate entity, it has its own Management (Attributes) screen.

The main advantages of using a Text module are:

1. Central storage and maintenance of texts: Commonly used texts like Terms and Conditions, Address line on footer, etc. do not have to be typed and maintained on every Smart Form being made. Also, changes made to the text at one place can be cascaded to all Forms where it is used if the Copy option is not used.
2. Language specific maintenance: Text modules can be maintained in different languages. Thus, by referring to the same Text module name, Smart Forms in different languages pick up the text of the corresponding language.
3. Client independence: This is an advantage over Include texts that are client dependent.
4. Can be assigned to CTS: An advantage over Standard Texts that are not assigned to a Transport System by default.
5. Can be translated to other languages through the transaction SE63

**How Do You Create Barcode In Smart Form?**

First go to SE73 T-Code SAP Script Font Maintenance to create or display the system bar codes.

Then go to SMARTSTYLES transaction, create a new character format and assign the barcode name that you have created in it. Then you can use the character format in your Smartform wherever you want the barcode to be displayed.

**SmartForms Output to PDF**  
There is a way to download smartform in PDF format.  
Please do the following:  
1. Print the smartform to the spool.  
2. Note the spool number.  
3. Download a PDF file (Acrobat Reader) version of the spool by running Program RSTXPDFT4 and entering the noted spool number.

**What are the differences between SAP Scripts and Smartforms?**

SAP Scripts are client dependent whereas Smartforms are client independent.

SAP Scripts require a driver program to display the output whereas

An integrated Form Builder helps to design Smartforms more easily than SAP Scripts

Table Painter and Smartstyles to assist in building up the Smartforms

On activation a function module is generated for Smartforms

It is possible to create a Smartform without a main window

Smartforms generates XML output which can be viewed through the web

Multiple page formats is possible in Smartforms

**How can I insert symbols in Smartforms?**

Select the Text node.

Change Editor (Click the button above Check near the Editor)

Go to menu Include->Characters->SAP Symbols

Choose the SAP symbol that you want to insert.

**How can I make the Smartforms to choose a printer name by default?**

In the CALL FUNCTION of the Smartform Function Module,

Set the output options parameter to set the printer’s name.

The output options is of the type SSFCOMPOP which contains the field TDDEST.

Set the TDDEST field to your default printer name.

**How can I make the Smartforms to display a print preview by default without displaying the popup for print parameters?**

In the SSF\_OPEN function module,

Set the OUTPUT OPTIONS parameter TDDEST to your printer’s name.

Set the CONTROL PARAMETERS and control parameters as shown below,

OUTPUT\_OPTIONS-TDDEST = 'PRINTER NAME'.

OUTPUT\_OPTIONS-TDNOPRINT = 'X'.

**How can I display the total number of pages in Smartforms?**

Use SFSY-FORMPAGES to display the total number of pages in the Smartforms.

**How can I provide a background shading to the table?**

In the Table Painter, you can specify the colour and shading for the table lines.

**Where can I provide the input parameters to the smartform?**

The input parameters for the smartform can be defined in Global Settings->Form Interface.

The Associated Type must be defined in the ABAP Dictionary.

**Where can I define my own global types for the smartform?**

The global types(within the smartform) can be defined in Global Settings->Global Definitions->Types

The types defined here will be global through the entire smartform.

Also the form routines can be defined Global Settings->Global Definitions->Form Routines

**I have defined my own Program Lines, where I have used a global variable G\_TEXT. I get an error G\_TEXT is not defined?**

Whenever using the global variables in the Program Lines, enter the variable name in Input Parameters if you are going to use (read) the variable. If you are going to both read/write the variable value enter the same in Output Parameters.

**I have created a table node for display. Where can I check the condition which must satisfy to display the table?**

The conditions can be defined in the Conditions tab. In smartforms all the nodes have a condition tab where you can specify the condition to be satisfied to access the node.

**How to add watermark to smartform output?**

Go to the properties of 'PAGE', tab 'Background Picture'. Add the grapic image name here.

**How to add a check box in smartform?**

in your text general attributes insert-characters-SAP symbols-SYM\_LARGE\_SQUARE

**A Smartform can be maintained in many languages other than the language that it is created. Translations for the texts have to be maintained for this purpose.**

To maintain the translations:

Go to transaction SE63 in R/3.

Go to menu Translation->R/3 Enterprise->Other Long Texts

Select the object type in the pop up. Smartform(SSF) object type is found under Forms and Styles(FS).

Enter the name of the Smart form and choose the source and target language. This would open a screen with the Smartform code in Source language on the top and an editor with the same code in the bottom.

Find the text for which you need to maintain the translation and insert the translation in that place. As usual after required texts are maintained Save and Activate.

**What is the use of Command Node in Smartforms?**

Manually control the number of records to be displayed per page based on some condition.

**In Global Setting of Smartform, what is the Difference between Form interface and global definition?**

Form Interface is where you declare what must be passed in and out parameters of the smartform.

IN- from the Print program/Driver Program to the Smartform.

OUT- from the Smartform to print program/Driver Program.

**How Will You Print On Both Sided Of A Smartform?**

At the Page level in Smartforms, you can find something called as Print Mode. Set the Print mode to duplex to print on both sides of the Smartform.

**What is the SAP Smartforms output control parameter’s structure?**

We can control the output parameters by using the predefine SSFCTRLOP structure.

**How and Address node works within a window in a Smartforms?**

Create a node of type Address in the navigation tree of from builder.

For organization address you must specify an address number by passing the value with the variable starting and ending with &.

**How many types of Address types in a Smartforms?**

* 1. Company Address.
  2. Personal Address.
  3. Workplace Address.

**What is OSS Notes in SAP how do we implement?**

**SAP OSS NOTES** is an online SAP service portal that provides up to date information on SAP notes.

It frequently releases bug fixes, patches, new program developments or enhancements and other miscellaneous updates by SAP. It provides a list of correction notes for SAP objects. OSS stands for “Online SAP Support."

**How to Create Standard Text using SO10 Transaction Code?**

SO10 is used to create Standard texts for use in SAP scripts. Standard text is used when we need the text to be reusable. This basically permits reusability of standard texts across many SAP scripts.