

FLM Developer's Tutorial

Version 274

Version History

Version	Date	Reason for update
1	10/10/2007	Initial release of the document
1.1	01/11/2007	Tweaking
2.0	01/08/2008	Adding FPE / Expanded Example



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This FLM Starter Guide is aimed towards a beginner designing his first form. Although it is helpful for you to be familiar with SAP and Adobe Designer, it should be possible for anyone to follow the step-by-step instructions given here and create your first FLM form and get a feel for the processes involved.

The aims of this exercise are to:

- Create a new form data definition using the FLM form wizard
- Combine the data definition with the form template to create a working Interactive Form
- Enter the required UserExit code to prepopulate, create a dropdown menu, and validate fields on the form
- Launch the finished form in the FLM portal and test it.

Exercise Prerequisites:

- FLM installed on the system
- Customer code initialised
- Form Status, Action and Category codes created.
- Message 996 set up
- Message 'Form submitted for approval' set up e.g. as number 100
- Users 1 and 2 configured

2 Creating the Data Definition of a Form in SAPGUI

The form data definition is done in the SAP IMG.

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SAP Easy Access FLM Overview	

Click on 'SAP reference IMG'

‰ SAP Reference IMG

Go to Cross-Application Components> General Application Functions> Forms Lifecycle Manager> Interactive Forms> Setup Forms> Form Wizard.

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	Cross-Application Components
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▽ 🗟	General Application Functions
\bigtriangledown	Forms Lifecycle Manager
	▽ Interactive Forms
	Initialise Customer
	Setup Content Server
	🗢 🛛 🔍 Setup Forms
	🛃 🕒 Form Wizard

Aut Asat Asoss Form Code beigh Form Data bpochy File Locations Welcome to the FLM Form Creation Wilzar This wizard will guide you through the process of creating all ne objects to integrate an Adobe Interactive Form with your SAP e with your SAP e Somplete	l receny (stem.



Enter a 4-character form character code, version number, language and form	
description.	

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File: FLM Developer's Tutorial



Begin by creating a subform in the region shown. Call it 'subform_1' with a MaxOccurs of 1 with ROOT as the parent. Click 'add subform' and it will appear in the table on the right.

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the MaxOccurs facility allows you to set the maximum number of times items on a subform can be repeated using the + and - buttons on the form.



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nax Occurs	SUBFORM_2	ROOT	10	
	SUBFORM_3	ROOT	1	
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bbA 🗲				

The first field, for the sake of this example, will be called 'prepop', of type 'numc' and parent 'subform_1'. Check the tickbox to 'add prepopulation routine'. Finally click 'Add' and it will appear in the field table.





Next, create two more fields, called 'Dropdown_1' and 'Dropdown_2', type: 'CHAR' and with parent: 'Subform_2'. Check the box to add an F4 values routine to both.







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FLM automatically creates a directory on your computer in which to store the finished form file. Click 'continue'.

 Alternate Template Choose Form Options Complete 	Specify I During the ge form data def location to st subsequently	ocation for XML Data Definition File eration of the FLM interface an XML file containing your ition is created. In this step you must specify the re that file on your desktop such that you can mport it into the Adobe Livecycle Designer tool.
Directory D:\FLM\Form Templates	Directory C:\FLM\	C Set Directory



M Form Builder	
Start Choose Form Code Design Form Data Specify File Locations	Specify Alternate Adobe Designer Template If you wish to base your interactive form on a template other than the standard FLM template, please specify that template here.
Alternate Template Choose Form Options Complete	Select Alternate Template
	Back Continue X Cancel

Select the following form options: Online transport, category FK4 (other). Click Continue.

FLM Form Builder Form Options In this screen you can determine in which transport in the form to operate, also which form category horms inally whether you wish to enable the data-audit feature Start Choose Form Code Design Form Data Specify File Locations Alternate Template Choose Form Options Complete Image: Complete Form Category Name FK1 Employment Forms FK2 Specify File Locations Alternate Template Complete FK4 Hordit FK4 Audit FK4 Entries found Attentions FK4 Entries found Audit FK4 Entries found Attentions FK4 Entries found Audit FK4 Entries found Audit FK4 Entries found Audit FK4 Entries found Audit FK4 Entries found FK4 Entries found Audit FK4 </th <th></th> <th></th> <th>🔄 Restric</th> <th>t Value Range (1) 4 Ent</th> <th>ries found</th>			🔄 Restric	t Value Range (1) 4 Ent	ries found
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	Back Complete

Click the 🗹	to complete t	he process	
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This message will be displayed. Click the 🗹 to exit the wizard and return to the IMG menu.





3 Designing the layout in Adobe Designer

<image>

The file will have the format: FLM _[3-digit customer code]_[4-digit form code]_E_[version number]

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Sample XML Data		
WSDL File		
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Open the directory and select the FLM form. It will have a file name of FLM_FORM_DATA_[3-digit customer code]_[4-digit form code]_E_[version number]

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Use XML Data Root Element Name:	~	
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Now the following appears in the 'Data View' tab next to the form hierarchy on the left hand side:



The Data View tab now contains the schema you defined in the FLM wizard. Subform_1 will correspond to the 'Header' field on the template, Subform_2 corresponds to 'Items' and Subform_3 corresponds to 'Footer'. 'FLM_Action' and 'FLM_Return' are required by the system so are generated automatically.



The next step is to drag-and-drop the fields in the Data View onto the corresponding form fields. Do not drag-and-drop the subforms.

Drag 'Prepop' onto the subform marked 'Header Fields' Drag 'Dropdown_1' and 'Dropdown_2' onto the 'Item Fields' subform Drag 'Validation' onto the 'Footer Fields' subform

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FLM_ACTION should be dragged and dropped onto the dropdown field next to the 'Send' button. FLM_RETURN corresponds to the blank box on the left of the ACTION field as shown.





You will need to create a drop-down chevron for both the dropdown fields on the form.

To do this, select the required fields and click on the field type on the right-hand side. Select 'drop down list' from the options:

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r Help, press F1	🔛 2.55in , 2.217in 📄 2.687in × 0.354in 🐓 DROPDOWN 1 📄 1/1 🥙 📼 🖷



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The names of th	e fields in the data view	and in the FLM sys	stem do not cha	ange when
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In order to ensure that the form functions correctly, you will need to bind the subforms on the template to the subforms you created in the Form Wizard.

To do this, return to the Hierarchy tab and under 'DataFlow', select the Header field.

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In the Object> Binding menu on the right, select the default binding to SUBFORM_1 by clicking on the
under the default binding and going to DataConnection> SUBFORM_1 as shown.



Repeat the process for the 'Items' and 'Footer' subforms: Section: Contempt Action Action (Contempt Addition and Contempt Addition and Contempt Addition and Addition a 🔞 Eile Edit View Insert Layout Tools Window Help - 8 🖞 🕶 🚔 🚔 🔗 🔃 💼 🎬 🏙 🗋 💽 🕞 56% 💌 🕀 🛛 🐺 🔯 🔽 B I U 🗈 🕿 🛥 🔳 🚱 🚫 Language: JavaScript 🔽 Run At: Client Show: initialize ✓ [~ **▲** X **▲** X Body Pages 🛛 Master Pages 🗷 🕅 XML Source 🗷 🧺 PDF Preview 🗷 Hierarchy 🗷 🛛 Data View (More ►) (More ► Library 🗵 τı _10, _, _, _, 11, _, _, 12, _, _, 13, _, _, 14, _, _, 15, _, _, _, 16, _, _, _, 17, _, _, 18, _1 DATA DATA (Master Pages) Standard Barcodes Custom FLM 10,11,11,12,11,13,11,14,11,10,1 Arch 🌽 Text Field (untitled Content Area
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4 Adding Business Logic

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You will receive a prompt to enter the form type code you are working with. Enter 'EGF1' and click 'Continue'

🔄 Optionally restrict form type code	×
Please enter the form type	
you would like to process	
or cancel to see all userexits.	
Continue 🔀 Cancel	



The screen shows a list of the fields that were assigned UserExits in the data designer, by category. To summarise:

'Dropdown_1' and 'Dropdown_2' were assigned an F4 values routine 'Prepop' was assigned a prepopulation routine 'Validation' was assigned a validation routine.

To edit the UserExit code that creates the dropdown options for 'Dropdown_1', select 'Dropdown 1' from the list under the F4 tab and click on 'F4 Possible Entries'

		ACL Arch Consulting Ltd	
Currently In EGF1 EGF1	Type Field Name	VerExit F4 Possible Entries	
			v 2.65



The following screen will appear, containing the UserExit code behind the field 'Dropdown_1'.

Class	Builder: Class /FLM/SFS_ACL Change				
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28	* l_form_data TYPE /flm/form_data.				
29	**				
30	* CLEAR ex form_data.				
22	* SALACT * FROM toost INTO 1_toost WHERE spras = sy-langu.				
33	f = CWECV + t00Et - 1 and r(1) = 121				
34	** CHECK I_COUCTIANDA(I) = A .				
35	* (TEAR) form data.				
36	* 1 form data-name = 1 t005t-land1.				
37	* 1 form data-value = 1 t005t-landx.				
38	* APPEND 1 form data TO ex form data.				
39	**				
40	* ENDSELECT.				
41	* Sample Code End >>>>>				
42	*	*			
43	* <<< Start of Customer Code >>>	*			
44	*				
45)			
46					
47	₽ *	*			
48	* <<< End of Customer Code >>>	*			

If you scroll down to the bottom of the page, there is a space denoted by <<<< Start of Customer code >>>> and <<<< End of Customer Code >>>>

This is where you will enter the code to define the possible entries in the dropdown. Cut and paste the following code into the space:

Click Activate 🚹 and then confirm.

This ABAP code will fill the dropdown menu with values from the table in SAP called t005t, excluding blank rows. Table t005t in this case contains a list of nationalities. This is a simple example, but you can enter any ABAP code here to use SAP's resource to populate the dropdown options.



Prompt for Custo	mizing request	
° Table Contents	/FLM/FPE_CNTRL	
Request	E5FK900018 Customizing request	
Short Description	FLM Demo's	
vit the scre	een using the Gamma icon.	

If you're familiar with ABAP, you might like to try entering your own code into Dropdown 2 using the same method as dropdown 1. Otherwise, proceed to Prepopulation:

Click on the PrePopulation tab, select the required field and then click the Pre-population button.

	ACL Arch Consulting Ltd
PrePopulation Validation Currently Implemented PrePop Services Form Type Field Name EOFT: PREPOP PREPO	Substitution Derivation



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F4 PrePopulation Validation Jubstitu	tion Derivation	
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Copy and paste the following code into the same space as before:

```
IF <g_value> <= 100.
    ex_mess_num = 996.
    ex_msgvar1 = 'value must be greater than 100'.
    ex_response = 'A'.
ENDIF.
```

This code will automatically validate the value entered into this field to ensure that it is over 100, and return an error message: 'value must be greater than 100' if this condition is not met.

→ [Image: Section in the section in th	rivate S
a 1.6	VAL_EDFI_VALUATION INACTIVE INACTIVE	
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18	*/ Total Point Rection + GRA dot + External dualess	
19	* You set the following return parameters:	
20		
21	* ex_response String composed of one or several of the following codes:	
22	*	
23	* A On-Line - Error - reject form	
24	* B On-Line - Warning - log event	
25	* C Off-Line - Warning - log event	
26	* D Off-Line - Error - return form	
28	* L UII-Line - LFFOF - Gelete IOFK	
29	" * ex mess num Messare number from customer messare class	
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35	* <<< Start of Customer Code >>> *	
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38	ex mess num = 996.	
39	ex_msgvar1 = 'value must be greater than 100'.	
40	ex_response = 'A'.	
41	- ENDIF.	
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46	ENDMETHOD.	
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5 Form Routing



This routing can be represented by a table of actions:

User	Form Status	Action	New User	New Status
Initial user (User 1)	Initial	Submit	Approver (User 2)	Submitted
Approver (User2)	Submitted	Approve	System	Approved
Approver (User 2)	Submitted	Reject	Initial user (User 1)	Rejected
Initial user (User 1)	Rejected	Submit	Approver (User 2)	Submitted
Initial user (User 1)	Rejected	Cancel	System	Cancelled

To configure this workflow into FLM, first go into Form Status Determination from the IMG menu in Transaction SPRO:





Select the name of the form you are working with from the list and double-click on 'Workflow Status' at the top-left of the screen:

hange View "Forn	n Type": Overview
🎾 New Entries 📑 🚘 🐼	
Dialog Structure	Form Type
Workflow Status	Image: First performance Image: Fi
	Image:



From the second, third and fifth columns of the routing table above we can derive the following other actions:

Submitted → Approve = End of life Submitted → Reject = Rejected Rejected → Submit = Submitted Rejected → Cancel = Cancelled

Go to 'New Entries' and enter the above status processes into the table as shown below. When you have fininshed click the 'Save' icon to store the data.

This table can be used for more advanced routing configurations, e.g. email reminders and version variations, so it has a number of options that we won't use for the sake of this example.

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User	Form Status	Action	New User	New Status
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Approver (User2)	Submitted	Approve	System	Approved
Approver (User 2)	Submitted	Reject	Initial user (User 1)	Rejected
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Initial user (User 1)	Rejected	Cancel	System	Cancelled



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6 Launching the form in the portal

Launch the <u>http://quat</u> system host Log in as th	FLM portal in a browser using the URL: tro:50100/webdynpro/dispatcher/flm.com/flmgui/flr name http host he first user in the routing (USER1):	<u>mportal</u>	
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Go to 'Tasks' and then 'New Form'

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- Access your inbox	
- Review and work with draft forms	
- Review forms you have started	



Click on the form category 'FK4' to which the form was assigned, scroll down through the list using the solution to form EGF1 and click on it. It will launch in the browser.

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When the form launches, the 'Prepopulated' field should contain the value '12,345', as determined by the UserExit code you entered. Clicking on the chevron next to 'Dropdown 1' brings up the dropdown list you created, and you can increase the number of item fields on the form using the + button:

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The form will be submitted, and a confirmation message will appear on the screen:

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If you have the login details of the next user in the routing, you can check that the form was routed successfully to them, as specified in the routing table. To do this, first Logout, then enter the login details of the next user:

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... and the form you have just submitted (EGF1) should appear in the listing, with status 'Submitted', created by USER1 with today's date on it. Click on the form to open it.

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Congratulations! You have just successfully created and tested your first FLM form. Please see the Configuration guide, the Developer Guide, the Form Design Guide and the System Administration Guide for more advanced instructions to configure a form and its processing to your requirements.