Function ID Development II Oracle FLEXCUBE Investor Servicing Release 12.0.1.0.0 [November] [2012] Oracle Part Number E51524-01



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1. Preface

This document describes the concepts and helps reader to create screens using non extensible Open Development tool, to develop FLEXCUBE user interface screens.

1.1 Audience

The Non extensible Open Development Function ID Development book is intended for the FLEXCUBE Application Developers who perform the following tasks with Non Extensible Open Development tool:

- Develop the new screen (also called as function ID)
- To modify the existing screen
- Bug Fixing the existing screen

To Use this manual, you need conceptual and working knowledge of the below:

Proficiency	Resources
FLEXCUBE IS Development overview	Development Overview Guide
Open Development Tool function ID development getting started	Getting Started
Open Development Tool Reference	Reference
Open Development Tool installation and setup guide	Installation and Setup

1.2 Related documents

For more information on Function ID Development, see these resources:

- Development Overview Guide
- Reference

1.3 Conventions

The following text conventions are used in this document:

Convention Meaning

boldface	Boldface type indicates graphical user interface elements (for example, menus and menu items, buttons, tabs, dialog controls), including options that you select.
italic	italic type indicates book titles, emphasis, or placeholder variables forwhich you supply particular values.
monospace	Monospace type indicates language and syntax elements, directory and File name, URLs, text that appears on the screen, or text that



	you enter.
STOP	Indicates important information

1.4 Pre-request

- Target FLEXCUBE IS environment
- Non extensible Open Development environment with designated project and release details



2. Introduction

2.1 How to use this Guide

The information in this guide includes:

• Chapter 2, "Introduction"

This is introduction section.

• Chapter 3, "Manual Static data population"

This section describes the prerequisites before creating a Function ID.

• Chapter 4, "Header Information"

This section describes the Header Credentials in detail.

• Chapter 5, "Datasources"

This section describes the steps required to get started with Function Creation.

• Chapter 6, "List of Values"

This section describes steps to add List Of Values definitions.

• Chapter 7, "Screen Layout Design"

This section describes the actions to be performed after adding Datasources.

• Chapter 8, "Data Blocks"

This section describes the steps required to design the Screen Layout.

<u>Chapter 9, "Fieldsets"</u>

This section describes the steps required to map the Fields to specific locations in the Screen.

• Chapter 10, "Callform"

This section describes the callform details.

• Chapter 11, "Actions"

This section describes the amendable.

• Chapter 12, "Summary"

This section describes the steps to design the Summary Screen.

<u>Chapter 13, "Open Development Tool Files Generation"</u>

This section describes steps to generate and deploy Open Development Tool Files.



3. Manual Static data population

• This section explains the data base tables that need to be manually populated to start the Open Development screen development. Developer has to add data manually in the below tables.

3.1 Pre creation of Open Development Activity

Following tables need to be populated

3.1.1 CSTB_DATA_DICTIONARY maintenance

Add rows in CSTB_DATA_DICTIONARY for Table/View and columns.

Column Name	Data Type	Data Length	Constraints
TABLE_NAME	VARCHAR2	50	PRIMARY
COLUMN_NAME	VARCHAR2	50	PRIMARY
LABEL_CODE	VARCHAR2	255	
FIELD_NAME	VARCHAR2	255	

3.1.2 CSTB_ITEM_DESC maintenance

Add rows in CSTB_ITEM_DESC for all label code required.

Column Name	Data Type	Data Length	Constraints
LABEL_CODE	VARCHAR2	255	PRIMARY
LANGUAGE_CODE	VARCHAR2	3	
LABEL_TYPE	VARCHAR2	20	
LABEL_DESCRIPTION	VARCHAR2	4000	

3.1.3 STTB_PK_COLS maintenance

Add rows in STTB_PK_COLS for tables that are part of data sources.

Column Name	Data Type	Data Length	Constraints
TABLE_NAME	VARCHAR2	30	PRIMARY
COLUMN_LIST	VARCHAR2	300	
DATA_TYPE_LIST	VARCHAR2	300	
DATA_LENGTH_LIST	VARCHAR2	100	



3.2 Post creation of Open Development activity

Following tables need to be populated:

- SMTB_FUNCTION_DESCRIPTION
- SMTB_MENU,
- SMTB_ROLE_DETAIL
- SMTB_FCC_FCJ_MAPPING



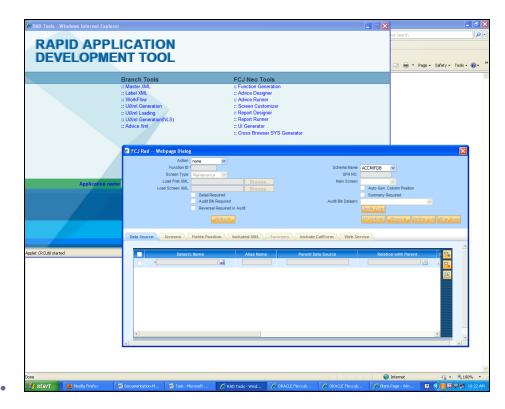
4. Header Information –Basic Information about the Screen

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Open the Non extensible Open Development Tool.

• Click on Function Generator shown above and the below screen will appear.





4.1 Schema Name

Developer has to select the appropriate schema in which he wants to develop the screen.

4.2 Action

Select *New* if you want to develop a new screen and *load* for modification of existing screen.

4.3 Function ID

The name of function Id has to be defined according to standard conventions .

4.4 Screen Type

This can be either *Maintenance* or *Transaction* based on the Function ID being developed.

4.5 Language

This should be selected based on the language in which the screen is to be developed. Developer has to ensure that the Label information in the selected language is available in the selected schema.

4.6 File Save Path

Developer has to specify the location where he wants to save the file.



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Defasro	: Name Alias Nam	e Parent Data Source	Relation with Parent	
✓ Version Language File Save Path	ENG 🗸		 ✓ Create Old DevXml ✓ Create Language specific XML ✓ Create Package 	×

- If the summary screen is required for the function id, then the Summary Required check box should be checked.
- If the audit block has to get displayed for the detailed screen, then the Audit Blk Required check box should be checked.
- If the generation of the packages is not required, then the Create Package checkbox can be unchecked.
- Main screen tab has to be selected.



5. Data Sources

- Click on the *data source* tab.
- You can add one-one, one –many, query and view type data source by clicking on the plus button on the top right corner of screen.
- You have to mention the Parent / Master data source.
- For rest child data source you have to give the parent as well as relation with parent along with relation type depending on type of datasource.
- Add the default clause where needed.
- For query data source you need to tick the corresponding query checkbox. This type of datasource is required when description has to be added for fields.
- For *Summary data source* you need to tick the corresponding checkbox too. This type of datasource is required when you have *Summary* screen.

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Selecting Data Source

• Data Source Added



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- Supposedly you need to access same fields of one datasource twice, than you need to create an *alias* of that data source. This is done by adding the same datasource again along with that you need to add a name in the alias column for that data source. In this way you can access those fields twice.
- For Alias Datasource



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• The required fields in each datasource are added by clicking the Select *Field* button present at the right corner of the *datasource* tab.

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• For adding Fields click *Add DB Cc*



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• Select the required fields from the list

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Done		<u>2</u>

- You need to define their properties like field type, label, required and popup edit.
- If that field should also come in *Summary screen* than you need to tick the check boxes under summary heading. Query checkbox if you want that field to be used as query in summary. Result and Advanced when you want the field to be just present in summary screen.



• For creating a *fieldset* you need to click on plus button on the right corner of screen and give all details like name of field set and its location on screen. Please refer the "Fieldset" section for more details.

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	Field Type * TEXT	Label Link
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P_ACTIONTYPE	Option Link	Select Multiple
P_ACTIVITYDATE	Required	Auth Screen
P_AGENTCODE	Popup Edit Regd	
P_ALLOCATIONFROMDATE		Popup Edit
P_ALLOCATIONTODATE	LOV Name 🗸	LOV Overri
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P_AMOUNT P_APPLICATIONDATE	Datasource VWREP TABLE	CLASSID
P ASOFNEXTDAY		
P AUTHTYPE	Max Length 7	Datatype DATE
P AUTHUNAUTH	Value	Default Value
P BRANCHCODE	AcsKeyCd	Col Heading
P BROKERCODE	Related Field	DataField P_ACCOPENINGDATE
P CERTIFICATENO	Input Only by LOV	MASK
P_CHEQUEPRINTINGSORTORDER	XSD Tag	Calendar Text
P_CIFNUMBER	Summary	Service Call
P_COMMUNICATIONMODE	Query	Service Call Required ?
P_CORPORATEACTION	Result	Service Name
P_CORPORATEACTIONID		
P_CURRENCY	Advanced	Operation
P_DATE	Legends	Request Type
P_DATEBASIS		
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P_DEFAULTLANGUAGE		
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P_DIVIDENDMODE		

• If the field type is *SELECT* or *RADIO* than you need to click on options button. Following screen will popup where you need to add the sub-fields

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		Find Field	Field Type * RADIO	
		P_CIFNUMBER P_COMMUNICATIONMODE	Label Code *LBL_P_FUNDTYPE	Label Link
		P_CORPORATEACTION P_CORPORATEACTIONID	Option Link Radio Field Options Webpage Dialog	Select Multiple
		P_CURRENCY	Cal Radio Field Options Webpage Dialog	
	D	P_DATE P_DATEBASIS		
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		P_DUPLICATEREQUIRED P_FOOTER_DISPLAY		
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		P_FUNDCATEGORY P_FUNDFAMILY		Co Add Label (
	4	P_FUNDID		
		P_FUNDIDENTIFICATIONNUM		



• If the field type is *Button* than you need to click on plus button on the right top corner of screen to add a button and give all details. After that click on *events* button on lower right corner and add the description like Event Name, Function Name, Sub screen Name. These Buttons are created for *Sub Screen* and *query* buttons.

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		Find Fi	dsBro Asc ield COPE	ields - wser NINGDA YPE	Screen Type - Webpag De TE Webpag	e Dialo sc	g 	Field	Vame [*] [P_ACCO Type [*] [BUTTO Code [*] [LBL_P_4	N	*		SFR ND:	Horizon	ntal FidSet Req?				×
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C	•		•														<u>ا</u>	/	

• Also, some *UI fields* such as Description may be required. In case of Query Data sources having some visible components (for example-MIDRATE below) as shown below, a UI field can be defined for the same by first clicking on the plus button on the right corner of screen and than giving the details. Generally UI Fields are not added in Non extensible Open Development since addition of query datasource is allowed in Non Extensible Open Development.



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• The above step has to be followed for every datasource and its fields.



6. List Of Values (Lov)

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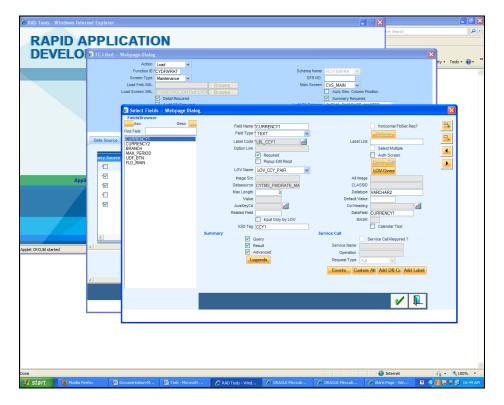
• Click on the *Define LOV* option and another screen will popup.

• There you need to enter Lov Name, Lov Query and after entering the details you need to click the *populate* button. There you need to add all the LOv details for the populated fields. You need to even add *Bind Variables* for Lov.



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LOV Name "LOV Form Name "LERO Fetch Rows " LOV Query SELE		_	Form Title *	
LOV Details Query Cots +PRODID	Datatype STRING	Return Fld Name	Reduction Fld? Yes v	Redn Fld N. PRODID
<u>.</u>				

- Similarly you have to add all the Lov which you have. The various LOV entries in the Open Development can be added by using the arrow keys present on the top of the screen shown below.
- After adding the Lovs you need to again go to data source tab and click on field button for each datasource. There you need to add Lov name for fields which are defined as Lov.





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7. Screen Layout

• You need to add screen name and its properties under this tab. Different type of possible screens are *main* screen , *summary* screen and *sub* screens.

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Data Source Screens	Fields Position Included XML Summary Include	CallForm Web Service
Screen Name (SC1_LER00074	Screen Title Screen Height	Screen Width Screen Position Screen Type
Version Languag File Save Pati		 ✓ Create Old DevXml ✓ Create Language specific XI/IL ✓ Create Package ✓

Click on Tab button on the screen tab to define the sections and partitions required for a screen.

- Section : horizontal division of screen.
- *Partition* : Vertical division of screen.

Tab Type :

- Normal: For centre portion of screen.
- Header: For Upper portion of screen.
- Footer: For lower portion of screen.

If you are not going for default *Tab* populated than we need to add at least two tabs -Header and Normal .

Screen Position:

- Template: For Main and Sub screens.
- Absolute: Only For *Summary* Screen.

In order to design the screen, we require the addition of sections. It can be seen from the preview below that we require two *sections* for this screen indicated in parenthesis.



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• We also require two *partitions* for the first section as indicated by the arrows.

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• The above information about screen layout can also be designed in the Open Development Tool by going to the screens tab and clicking on the "*Tabs*" button which is described further.

🔊 FCJ Rad Webpage Dialog			
Action Function ID Screen Type Load Fmb XML Load Screen XML	*LER00074		SC1_LER00074 ¥ Auto Gen. Column Position
Data Source Screens	Fields Position Included XML Sur	nmary Include CallForm Web Servic	Ul Definitio Preview Define LoV View Sourc
een Height Screen \ 516 •	Midth Screen Position Screen Ty 780 - Template · Small	rpe Version Grouping? Tabs	Data Block Preferences Data Block Preferences
 • 			
Version Language File Save Path			Create Old DevXml Create Language specific XML Create Package

• Add Details of the Tab Added and after that click on sections.

8 T	abs	Webpage Dialog						×
	ıe	Tab ID	Tab Label	Access Key	Tab Height	Tab Type	Section	4
	4	*All	*LBL_ALL			• Nomal 🗸	Section	
								3
	4							
							 Image: A start of the start of	
	I)) (

• Add Number of Sections and after that click on *Partition* button.



Sections Webp	age Dialog				
SI No.	Tab ID	Section ID	Section Height	Partition	
	-[AI	* <u>S1</u>	•	Partition	
					1

• Add Number of Partition and after that click on *Sub Partition* Button.

tition Name	Partition Width	Sub-Partition	Fieldset Req?	Fieldset Label	₽+
	• <u>100</u>	Sub-Partitic			
4				 ►	

- Layout of screen is designed.
- Same steps has to be carried out for designing layout of all screens.



8. Data Block

• Click on The *data block* button under screen tab.

🖉 FCJ Rad Webpage Dialog		X
Action Function ID Screen Type Load Fmb XML	Lead LER00074 Martenance	Schema Name FCISDISTUTS SFR NO: SFR NO: Main Screen Sc1_LER00074 Audo Gen. Column Position Summary Required Audt Bik Datasrc WKREP_TABLE Screen Science
Data Source Screen een Height Screen 516 -	Fields Position Included XML Summary Include Californ Width Screen Position Screen Type Version Grouping 720 Template - Small Template - Small - Template - Small - Template - Small - Template - Template - Template - Template - Template 	
Versio Languag File Save Pat ∢		 ✓ Create Old DevXml ✓ Create Language specific XML ✓ Create Package ✓

• Define *data blocks* and all its details and add the corresponding datasource for data block, view type, screen name and give the tab name, section, partition for the required fields.

	Attach Fiel				
Block ID K_LER00074	Block Title	View Type	Screen Name +SC1_LER00074	Datasrc Name	
K_LERUUU/4	•	Single Entry	*SCI_LER00074	VWREP_TABLE	- 🔜
4					

View Type:

• Single Entry : For One –One Datasources



• Multiple entry : For One-Many Datasources.

Click on Attach field button to add fields to the data block

🖉 Data Blocks Webpage Dialog					X
	Attach Fiel				
Block ID	Block Title	View Type	Screen Name	Datasrc Name	
K_LER00074	-	Single Entry	+SC1_LER00074	VWREP_TABLE	
•					
					1

• From the list of fields you can select the required fields for data blocks.

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	P_ACCOPENINGDATE P_ACTONTYPATE P_ACTIVITYDATE P_ACTIVITYDATE T T P_AGDENTCODE T T P_ALLOCATIONFROMDATE P_ALLOCATIONTODATE	INTURNE STALLE	
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• After that click on *field properties* button to add details .



• Give Tab name, Section, Partition and Sub partition for all fields. You need to also tick the check boxes like Amendable, Read only, Upper case depending on your requirement for all fields. Field size and Max Length also has to be given.

🖉 Block Fields Webpage Dialog					
FieldsBrowser					
Asc Desc	Field Name 1	BTN_OK	Label Code *		-
Find Field	Field Type 1	BUTTON	Label Link		
BTN_OK	Tab Name *	AL	TAB INDEX		
BTN_EXIT TSNAME	Section Name	S1 🗸	Partition Name 1	S1 P1 ¥	
TSVALUE	SubPartition Name	~	AcsKeyCd		
FL1		Disabled?		ReadOnly?	
P_PRODUCTID		Upper Case		Checked?	
P_TRANSACTIONDATE	Height		Width		
	Field Size		Abs Pos		
	Query Col		Max Length		
	Show In		Result Col		
	Img Src	Images/Ok.gif	Alt Img		
	TxtArea Rows		TxtArea Cols		
	Field Row		Field Col		
	Position	Bottom 💙	Alignment	Right 🖌	
		Amendable?		Subsystem Depend?	
	Amount/Number Field Pre	ferences			
	Min. Val		Max. Val		
	Related Field		Max. Decimals		
				Add Fields	
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9. Field Sets

• The various *fieldsets* that are required have been pointed out in the screen below. For this example, we require three fieldsets named FST_1, FST_2 and FST_3.

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- Fieldsets has to created only for one-one datasource. Fieldsets are not required for onemany datasource.
- For one-many you need to give the tab, section, partition and sub partition details in the block screen itself.

<u>@</u> 1	al Data Blocks Webpage Dialog												
			Attach	Fiel									<u>*</u>
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- Click Add fields on the lower right corner of screen and than a window will popup where you can add those columns which you want to group together in one field set, keeping in mind the vertical order in which they will appear on screen.
- You need to add Tab name, Section Name, Partition Name for 1-1 type of datasources fields inside the datablocks.

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DEVELO	🖉 FCJ Rad Webpage						& Select *
		Action Load CODVARRL		Schema N		_	Editing
		n Type Maintenance V		SFR			
	🔁 Data Blo		s in Fieldset Webpage D	ialog			×
	Data Data		s in theraset webpage b	шор			
		FieldS	et Name FLD_SET_SEC1_PART	Col:	span	el Code *	
	anao12	Defau	Field Name	Field Set	Incl.	INDEX	
			R_RULE_ID	FLD_SET_SEC1_PART1		Name SEC1_PART2	
	Data Sourc		R_RULE_DESC	FLD_SET_SEC1_PART1		KeyCd ReadOnly?	
	Height		R_RULE_BASIS R_RULE_TYPE	FLD_SET_SEC1_PART2 FLD_SET_SEC1_PART2		Checked?	
	5			FLD_SEI_SECI_FARIZ		Width bs Pos	
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10. Call Forms

• The field button that appears on the lower left corner of preview screen is *callform*. Add the details of callform under this tab.

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	Action						ty + Tools + 🕢 + 🏾 »
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6	Data Source Screens	Fields Position Included X	ML Summary	Include CallForm Web Se	ervice		
	Call Form FucntionId	Call Form Path		Parent Data Src	Relation With Pare	ent Re 👝	
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11. Actions

- RAPID APPLICATION DEVELO 🖣 🗛 **#** SFR N a Data Bl 🖉 Block Fields -- Webp LBL_BRANCH Label Link TAB INDEX ► Data So Height 4 Add Fields 1 K V 🖳 😑 tř 🕞 🗉 C RAD C 🗐 Тळ
- In Non Extensible Open Development for actions when you go to datablock fields there you need to check the box of *Amendable*.

• This is the final preview of required screen.



	PPLICA	ge Dialog				1.1.1.1 , A A Fin L.1.1.1 , A A Fin a Rej Sel
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- Limit Details					Se	lect Fields
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12. Summary

• The *summary* screen present in the Open Development can be accessed and selected through the Screens tab and then previewed using the Preview button.

🖉 RAD Tools - Windows Internet Explorer		🔳 🗗 🗙
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RAPID APPLICATION		
DEVELO A FCJ Rad ~ Webpage Dialog		X Tasks Or "
Screen Type Maintenance SFR Lad fmb XML Load Screen X, Dr.RADTOOL Old Red/CYDB Browse_ V Detail Required	Name FC111NFRA W NO: CV5_MAIN W Auto Gen. Column Position V summary Required CVTMS_FVDPATE_MASTER Audit Field	ky • Took • @• ″
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Done						😜 Int	ernet		
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• Note that the fields indicated in the summary preview below are *query* fields and have been indicated in the screen below.

🔗 RAD Tools - Windows Internet Explorer		_ 2 ×
RAPID APPLICATION	ve Search	₽ ▼
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Action Load Function D CODEWRAT Softeen Type Materiance M	Schema Name FC111INFRA V SFR NO:	• @• *
🖉 Preview Webpage Dialog	n. Column Position	
Authorization Status	Record Status V Required Currency2 FE VORATE_MASTER V B Proview Define Lot View Source	
Advanced Reset Query Refresh		
Result*		
Authorization Status Record Status Currency1 Currency2 Branch Max Period	e Old DevXnl e Old DevXnl b Package	
A - Adverted C - Create and C - Crea		X
Done	💽 Internet 🥠 🕂 🔩	
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13. Non extensible Open Development File Generation

• Click on the green tick button on the bottom to save and generate the files.

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DEVELO 🗗 FCJ Rad Webpage	Dialog					X	
	D CSDLIMIT		Schema Name SFR NO:	ACCMIFDB			
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W WordWeb							Vednesday 4/27/2011

Following files will be generated:

- SPC
- SQL
- Inc
- JS
- UIXML





Notification Development

November [2012] Version 12.0.1.0.0

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