Development Workbench - Tracking Changes Oracle Banking Trade Finance Release 14.7.6.0.0 Part No. G32642-01

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# **1** Preface

This document describes the Tracking Changes available in Oracle FLEXCUBE Development Workbench for Universal Banking and guides the developers on how to use this feature

## 1.1 Audience

This document is intended for FLEXCUBE Application developers/users that use Development Workbench to develop various FLEXCUBE components.

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

Proficiency	Resources
FLEXCUBE Functional Architecture	Training programs from Oracle Financial
	Software Services.
FLEXCUBE Technical Architecture	Training programs from Oracle Financial
	Software Services.
FLEXCUBE Object Naming conventions	Development Overview Guide
Working knowledge of Web based	Self Acquired
applications	
Working knowledge of Oracle Database	Oracle Documentations
Working knowledge of PLSQL developer	Respective vendor documents
Working knowledge of PLSQL & SQL Language	Self Acquired
Working knowledge of XML files	Self Acquired
Language Working knowledge of XML files	Self Acquired

# 2 Introduction

## 2.1 How to use this Guide

The information in this document includes:

- <u>Chapter 2 , "Introduction"</u>
- Chapter 3 , "View Changes "
- <u>Chapter 4 , "Change Report"</u>

# 3 View Changes

View Changes allows the developer to see what exact change has been done in the radxml as part of the various nodes in the Workbench across different releases.

Track changes will show various changes done in each node in the radxml. It will highlight the nodes through the color. It shows the modified Data Sources, Data Source Fields, LOVs, Data Blocks, Block Fields, Call forms etc in Blue Color. And it shows the newly added Data Sources, Data Source Fields, LOVs, Data Blocks, Block Fields, Call forms etc in Green Color.

The main page of View changes looks like function generation page. Here in this page user is allowed to load a radxml. Then Workbench will show the all the changes done in the radxml across the release and release type accordingly with two different colors.

Blue indicates modified Green indicates new.

So using View changes in Development Workbench, user can easily identify the changes done in the radxmls across releases Across the release and release type.

## 3.1 Process Steps

The starting page of the View changes will have only load button enabled and all the other buttons will be disabled at the beginning.



Fig 4.0 Development Workbench - View Changes link.

View Changes			_ ×
			🖫 🗵 🗏 🖗 🔿
Action Load -	Function Type Parent	- Function Catego	Maintenance -
Function Id	Parent Function	Header Templa	ite None 🔻
Load Screen Xml	BROWSE Parent Xml	Footer Templa	te None 👻
Search			*
Preferences			
ListOfValues			
DataBlocks			
Screens			
Actions			
CallForms			
Summary			
			+
			*

Fig 4.2 Development Workbench - View Changes page.

This page will allow user to load the radxml to view the changes in the radxml across releases and release types.

Workbench allows viewing the changes done as part of Child or Cluster or Custom Release. Upon loading the Cluster or Custom or Child RAD xml, it shows the Modifications done as part Of Cluster or Custom or Child.

#### To load the radxml.



Fig 4.3 View Changes - loading radxml.

After loading the radxml one small window will pop up and will notify the details of the function id Like Function Type, Release Type.

Figure notifies that changes done in the radxml as part of Cluster Release will be highlighted



Fig 4.4 View Changes – Notifying the release type in which changes done

This will give brief details of what are the changes shown according to the release type. After loading the function id , Workbench will show the screen in the below format with blue and green accordingly.

tion changes				_ ×
Action Load  Function Id FTDREAS Save XML Path FTDREAS_RA	Function Type Parent Parent Function BROWSE Parent Xml	×	Function Category M Header Template N Footer Template N	aintenance ▼ one ▼ one ▼
Search	Block Field Properties			- K 🗔 🗐 🔺
Preferences DataSource DataSource MODULE EVENT_DATE EVENT_CODE ListOf/alues DataBlocks DataBlocks DataBlocks DotULE EVENT_CATE EVENT_CATE EVENT_CATE FieldSets FST_REASSIGN Actions CallForms LaunchForms LaunchForms	Field Name *     MODULE       Field Label     LBL_MODULE       DataSource     CSTBS_CONTRACT_EVEN       Column Name *     MODULE       Data Type *     Varchar2 •       Display Type     Text       Item Type     Database Item •       Parent Field     •       LOV Name     •       Off Line LOV Name     •       Fieldset Name     •       Euston Attributes     Events       Related Field     •	XSD Tag XSD Anotation Field Size Maximum Length Minimum Value Maximum Value Maximum Decimals TextArea Rows TextArea Columns Default Value Preview Value Mask Id		Required     Visible     Read Only     Calender Text     Popup Edil Required     Uppercase Only     LOV Validation     Required     Input by LOV Only     Not Required In Xad     Report Parameter
Canal Summary	Attribute Name	Attribute Value	Activo	+ =
				*



This will show the changes in the colors blue and green. Blue indicates modified and green indicates new, so in this function id.

One data source is modified (in blue color) while one block is newly added (in green color) as part of cluster release

# 4 Change Report

Change Report allows us to view the changes in the provided base and source list of radxml's, helps to get the changes done in the two radxml's across releases and release types.

View Changes Report allows the developer to see what exact change has been done in the radxml's as part of the various nodes in the Development Workbench across two different releases or release types.

It is generates reports based on two formats **Comparison Types:** 

- 1. Function specific: Compares Radxml's Based on the function name
- 2. Parent child: Compares Radxml's Based on the parent child Relation

These are the nodes which are compared and report is generated based on the differences found in these below nodes of the two radxml's given in the list Radxml's.

PREFERENCES, MENU\_DETAILS, DATASOURCES, COLUMNS, LOVS LOV\_DETAILS, DATA\_BLOCKS, BLOCK\_FIELDS, DATASOURCES\_ATTACHED, CUSTOM\_ATTRIBUTES, LOV\_RETURN\_FIELDS, LOV\_BIND\_VARS, FIELD\_EVENTS, LOV\_OFF\_LINE\_BIND\_VARS, LOV\_OFF\_LINE\_RETURN\_FIELDS, SCREENS, SCREEN\_ARGUMENTS, TABS, SECTIONS, PARTITIONS, FIELDSETS, FIELDSET\_FIELDS, SUMMARY, SUMMARY\_DETAILS, LAUNCHFORMS, CALLFORMS, ACTIONS, WEB\_SERVICES.

## 4.1 Process Steps

View Changes Report process is explained taking STDCUSAC as example From FCUBS\_11.3.0 and FCUBS\_11.4.0 Releases. Click on View Change Report Node from Development Workbench landing page.



Fig 4.1.1: Development Workbench Landing Page

The following window will be launched

Vi	ew Changes Excel				_ × _
	Source File List Comparison Type	Same Function ▼       ✓ Data source Changes       ✓ Data Blocks Changes       ✓ Screen Changes	SE Base File	List BROWSE U Lov Changes Fieldset Changes Other Nodes Changes Order Changes	
	SI.No	File Name	File Status	Error Description	*
					Ţ
				Generate	Close

Fig 4.1.2: Development Workbench View Changes Report Screen

**Source File List:** Browse and select the text file containing source file list.

Administration	iew Changes Excel		
Eunction Generation	On and File that	BOMASE	EPONISE
Screen Customizer	pload	× Base rue Lisi	
Tracking Changes	proud	N LOG CUB	nges
View Changes		Fieldset	Changes
Change Report		😥 Olher No	ides Changes
Notification Triggers	Hala and File	Proves Order Of	140.085
Notifications	Opload File	blowse	the gran
Bulk Generation			
Excel Template Generation			
Refresh		Choose File to Upload	
Web Sevices			
		💙 🕖 🗢 🥼 « Data (D:) 🕨 vinit 🕨 113	• • • Search 113
Block Detail Upload		Ourseine and Newfolder	
Prest Case Definition		organize • New Tolder	8== 👻 🛄 🥑
Test Case Data Unlead		- Name	Date modified Type
Create Dequest			
Tost Case Execution		Sector Sector	9/6/2013 11:17 AM TXT File
Runchart Execution		Downloads STDCUSAC_RAD.xml	2/11/2011 3:47 PM XML File
Test Case Data Bulk Unload		Recent Places	
Execution Report			
Generic Interface Formats		n Desktop	
Sal Editor		🔚 Libraries	
Purge Generation		a papraiu	
		The Computer	
		System (C:)	
		🕞 Data (D:)	
		DVD RW Drive	
		FLEXCUBE_Kerr	
		📮 Xperia L	
		Stework	
		G Control Panel	
		🔟 Kecycle Bin 👻 🕻 💷	•
		File name:	- All Eller (* *)
		The name, Source, LXE	· [
			Open Cancel

Fig 4.1.3: Selecting source file list text file for View Changes Report

Source File list is a text file which contains the absolute path of all the radxml's to be compared.



The figure above shows the content of the source.txt file .Here STDCUSAC is the source radxml which has to be compared.

If View Changes Report of more than one function\_id is required, absolute path of each radxml has to be specified; each in a new line



Base File List: Browse and select the text file containing base file list

Fig 4.1.5: Selecting base file list text file for View Changes Report

Base File list is a text file which contains the absolute path of all the base radxml's to be Compared (here STDCUSAC is the base radxml)

If View Changes Report of more than one function\_id is required, absolute path of each base radxml has to be specified; each in a new line

base.txt - Notepad		×	
File Edit Format View Help			
þ:\vinit\114\STDCUSAC_RAD.xml			
4	)		ŧ.

Fig 4.1.6: Content of base.txt file

**File Location:** Choose file location as client if the path provided is in the client machine. **Comparison Type:** Choose Comparison type as Function Specific.

Select Changes: Check if required to compare the selected nodes also.

Click on Generate button on lower left portion of the screen and wait for the system to do the process.

Process time will vary depending on the number of files provided, size of each files etc



Fig 4.1.7: File Status after View Changes Report

After Completion of the process, status will be shown in the screen. File status will be generated successfully if comparison is successful.

#### **Generated Files:**

1) **Excel Report of Changes:** A war file named RAD will be created and will be shown after successful process of comparing, which will contain Excel files for the particular source radxml's.

PANDETIP\_FRONTEND\_LOG.txt

2) Log Files : Following log files will be generated

i) View Comparison Log: This contains the status of all the files Compared.

ii) View Comparison Report: This file can be used for troubleshooting.

All the nodes will be compared and will be painted in the excel sheet based upon the values of base and source list of radxml's, the values will be having 3 statuses

### NEW, MODIIFED, DELETED.

Based on this status old and new values will be shown in the view changes report.

## 4.2 Functionality Demonstration

In the above View Changes Report process, **STDCUSAC** is compared with the latest **STDCUSAC**. The figure below shows the comparison of STDCUSAC (**FCUBS\_11.3.0**) and STDCUSAC (**FCUBS\_11.4.0**).

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	SOURCE	BASE	
FUNCTION_ID	STDCUSAC	STDCUSAC	
RELEASE_CODE	FCUBSV.UM 11.2.0.0.0.0.0	FCUBS_11.4.0	
RELEASE_TYPE	KERNEL	KERNEL	
FUNCTION_TYPE	P	P	
FUNCTION_CATEGORY	MAINTENANCE	MAINTENANCE	

Fig 4.2.1: STDCUSAC screen copy right clause.

Fig 4.2.2: STDCUSAC screen Header.

# PREFERENCES

STATUS	PREFERENCES	PROPERTIES	OLD VALUE	NEW VALUE
MODIFIED	MENU			
		TXN BLOCK NAME	BLK_CUST_ACCOUNT	
		TXN FIELD NAME	BRN	
		MULTI BRANCH ACCESS	Y	

STATUS	MENU DETAILS	PROPERTIES	OLD VALUE	NEW VALUE
MODIFIED	STDCUSAC	1		
		T		
		LBL FUNCTION DESC		LBL_STDCUSAC_FNDESC
				Customer Accounts
		FUNCTION DESC		Maintenance
		LBL FUNC MODULE		LBL_STDCUSAC_MODULE
		DESC		_
MODIFIED	STSCUSAC			
		LBL FUNCTION DESC		LBL_STSCUSAC_FNDESC
				Customer Accounts
		FUNCTION DESC		Summary
		LBL FUNC MODULE		LBL_STSCUSAC_MODULE
		DESC		_

Fig 4.2.3: STDCUSAC screen Preferences changes from previous release screen

The change report will compare the two function ids and will paint the excel sheet in the format above represented for the preferences node of the radxml's compared. Preferences will show the difference in the both versions of the releases. The nodes representing here are

#### (PREFERENCES, MENU\_DETAILS)

## **Description**:

change Report will compare two radxml's and will form one Dom which will have the nodes which will have the diff between two radxml's which has old value and new value.

Here in preferences, the status is the nodes are modified and the node modified is preferences the property of that node modified is Txn block name Old value is block\_cust\_account no and new value is null ,STDCUSAC (FCUBS\_11.3.0) radxml has no value and STDCUSAC (FCUBS\_11.4.0) has block\_cust\_account as Txn block

Similarly for the other screens also the values will be painted as below fig.

# DATASOURCES

9	Home	(till sert	Page Lavout	Fo	rmulas	Data R	leview	S	TDCUSAC.xls [	Comp	patibility Mode]	- Micros	oft Excel									y x ø x
Pa	Cut	Ari	al Z II v	- 10	• A A		<b>-</b> »		Wrap Text	ter v	General	▼ \$0. 0.*	Conditiona	E Format	t Cell	<b>₩</b> Insert	Delete F	ormat	Σ AutoSum	Sort &	Find &	
	→  ✓ Forma	t Painter		)[]	·····				and merge or cern		4 70 F	.00 -0	Formatting	as Table	* Styles *		*	* 4	∠ Clear *	Filter *	Select *	
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	F9	• (0	Jx	DELE	TED		12				-											Ŷ
1	A	DATASOU	B			C	0		D				F			G	_		Н			-
2	MODIFIED	ICTMS AC	C PR		FROFERI	LJ	U		LUL		NEW VALUE											-11
3			_		DEFAULT	WHERE	p ic V T	rod IN roduct_ ctms_p VHERE ', 'P'))	SELECT code FROM roduct_definitio product_type i	n in (	prod IN (SELEC product_code F ictms_product_ WHERE produc	T ROM definition t_type =	Т)									
4	MODIFIED	ACVWS_C	RTUR_LM	IT_BAL			L L S D	IMIT_P IMIT_P STTM_T SS WHI	RD = (SELECT RD FROM URNOVER_PE ERE LIMIT_COI	RIO	LIMIT_PRD = (S LIMIT_PRD FRO STTM_TURNOV DS WHERE LIN =	ELECT M ER_PER NT_CODE	110 E									
							p, u N to d	o_wrk_s ist_acc /IT_COI o_date( late) BE .IMIT_S	tdcusac.v_sttm ount.TRNOVEF DE AND global.applicati TWEEN TART DATE A	ns_c R_L on_ ND	p_stdcusac.v_s account.TRNOV CODE AND to_date(global.a date) BETWEEI LIMIT START E	ttms_cus ER_LMT pplication V ATE ANI	t_  D_									
5					DEFAULT	WHERE	L	IMIT_E	ND_DATE)		LIMIT_END_DA	TE)										_
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8					CHILD DA	ASKC	N	1					STATI	IS C	OLUMNS			PROPER	TIES			HE
9													DELETE	DB	RANCH (	CODE		T ROT EN			OLD THE	
10	1														-			COLUMI	NAME		BRANCH	CC
11																		DATATY	PE		VARCHAR	22
12																		MAX LEI	NGTH		3	_
12																		BLOCK	IAME		BLK_STTI	VIS
14													DELETE	D C	UST AC	NO		DECCR			NAGEO	-
15																		COLUMI	NAME		CUST AC	N
16																		DATATY	PE		VARCHAR	32
17																		MAX LEI	NGTH		20	
10																		BL OCK			BLK_STT	.MS
10													DELET	D C			-	DLUCK	MAINE		WINAGES	-
20													ULLEIT		OLLAIEP	VAL_TIPE	-	COLUM	NAME			RA
21																		DATATY	PF		VARCHAR	22
22																		MAXIE	NGTH		1	-
																		IN UT LE	ioni.		BLK STT	MS
23																		BLOCK I	NAME		NKAGES	
24													DELETE	D C	OLLATER	RAL						
25																		COLUMN	NAME		COLLATE	.RA
26																		DATATY	PE		VARCHAR	22
27			1								,		- House -					MAX LEI	NGTH	_	50	-
14	Copy	right Clause	Header	PREF	ERENCES	DATASO	URCES	LOVS	Z DATA_BLOC	KS	SCREENS FI	LDSETS		_	_	111	_	(m)				
Rea	ady Scrott Loo	ж					-	_											[四] 100%	9	V	•
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Fig 4.2.4: STDCUSAC screen Data Sources changes from previous release screen

The change report will compare the two function ids and will paint the excel sheet in the format above represented for the Data Sources node of the radxml's compared. Data Sources will show the difference in the both versions of the releases. The nodes representing here are

#### (DATASOURCES, COLUMNS)

Order Changes:

w Changes Excel			
Source File List V V V S V C	Browse lata source Changes lata Blocks Changes icreen Changes ither Nodes Changes	Base File List Brows	e Comparison Type Same Function 💌
SI.No	File Name	File Status	Error Description
			Generate Close

Fig 4.2.5: order changes in change report screen

On click of this order changes the nodes will also be compared for the order maintained in the radxml of respective releases. Mainly order changes will affect 3 nodes

# FIELD\_ORDER, FIELDSET\_ORDER, TAB\_ORDER, SEC\_ORDER, DATA\_BLK\_ORDER, BLK\_FIELD\_ORDER

All the orders will be compared between sources and base radxml's and will be painted in the excel as below fig

One such example Comparing two radxml's with order changes required in the screen the comparison will include the above nodes in comparing the two radxml's.

## **Order Changes screen for fieldsets:**

STATUS	FIELDSETS	PROPERTIES	OLD VALUE	NEW VALUE
MODIFIE	FST REVOLVING LOAN	I		
		FIELDSET_SECTION	SEC_PREF1	SEC_PREF4
		FIELDSET_PARTITIO	SEC_PART3	SEC_PREF4_PART
		FIELDSET_VISIBLE	Y	N
		FIELDSET_ORDER	59	0
MODIFIE	FST_PRD			
	052			
MODIFIE	FST_RML			

STATUS	FIELDSET_FIELDS	PROPERTIES	OLD VALUE	NEW VALUE
MODIFIED	LEASE_TYPE			
	1/13/17	ACTIVE	Y	N
		FIELD_ORDER	8	0
STATUS	FIELDSET_FIELDS	PROPERTIES	OLD VALUE	NEW VALUE
NEW	ROLLALWD			
		FIELD_NAME		ROLLALWD
		ACTIVE		Y
		FIELD_ORDER		2
NEW	PRDTYPE			
		FIELD_NAME		PRDTYPE
		ACTIVE		Y
		FIELD_ORDER		3

Fig 4.2.6: order changes painted in excel sheet in change report screen



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