Development Workbench - Tracking Changes Oracle Banking ELCM Release 14.4.0.0.0 [Apr] [2020]



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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 applications	Self Acquired
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

# 2 Introduction

### 2.1 How to use this Guide

The information in this document includes:

- <u>Chapter 2 , "Introduction"</u>
- <u>Chapter 3 , "View Changes "</u>
- <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.

w Changes			
-			🖩 🗵 🗏 🔗 🇐
Action Load 👻		Function Type Parent	Function Category Maintenance
Function Id		Parent Function	Header Template None 👻
Load Screen Xml	BROWSE	Parent Xml	Footer Template None
ch			
🚞 Preferences			
DataSource			
istOfValues DataBlocks			
Screens			
🚞 FieldSets			
Actions			
CallForms LaunchForms			
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.

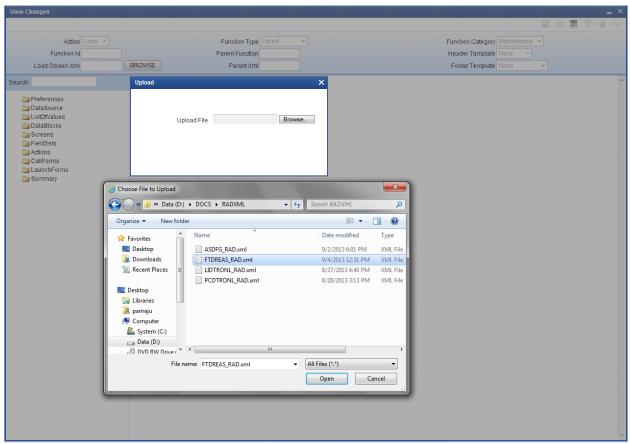


Fig 4.3 View Changes - loading radxml.

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

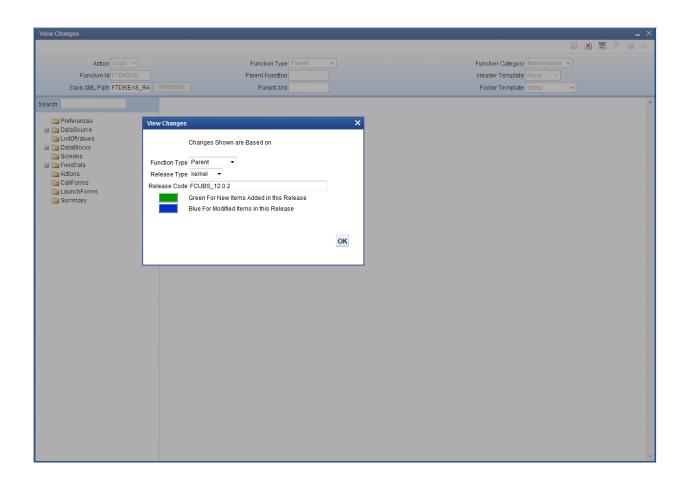
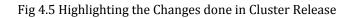


Fig 4.4 View Changes – Notifying the release type in which changes done

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.

View Changes				_ ×
				🔚 🗶 🔳 🖓 🇐 🔿
Action Load  Function Id FTDREAS Save XML Path FTDREAS_RA	Function Type Parent Parent Function BROWSE Parent Xml		Function Category Header Template Footer Template	None -
Search	Block Field Properties			- 🛛 🟹 🗐 🤺
Preferences DataSource DataSource DataSource DataSource Devent_DATE DataBlocks DataBloc	Field Name * MODULE Field Label LBL_MODULE DataSource CSTBS_CONTRACT_EVEN Column Name * MODULE Data Type * Varchar2 ~ Display Type Parent Field Related Block Related Field LOV Name Fieldset Name FST_REASSIGN Custom Attributes Events Related Field	XSD Tag XSD Annotation Field Size Maximum Length Minimum Value Maximum Decimals TextArea Rows TextArea Columns Default Value Preview Value Mask Id		Required         Visible         Read Only         Calender Text         Popup Edit Required         Uppercase Only         LOV validation         Required         Input by LOV Only         Not Required In Xsd         Report Parameter
	Attribute Name	Attribute Value	Active	Position



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	BROW Same Function ▼ ✓ Data source Changes ✓ Data Blocks Changes ✓ Screen Changes	SE Base File	List BROWSE Lov Changes Fieldset Changes Other Nodes Changes Order Changes	
	SI.No	File Name	File Status	Error Description	*
					Ţ
				Generate	e Close

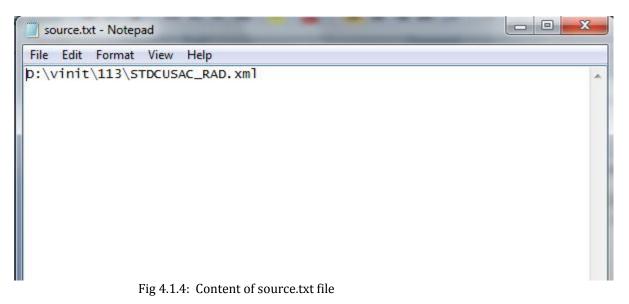
Fig 4.1.2: Development Workbench View Changes Report Screen

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

🗉 🚞 Administration	View Changes Excel			×
Function Generation		BROWSE Base File List		
Screen Customizer	Source File List	Loude 1 Ho Kath	BROWSE	
Tracking Changes	Upioad	<u> </u>	Lov Changes	
🗀 View Changes			Fieldset Changes	
🚞 Change Report			Olher Nodes Changes	
Notification Triggers				
Notifications	Upload File	Browse	Order Changes	
Bulk Generation				
Excel Template Generation				
🗀 Refresh		Choose File to Upload		×
🗉 🚞 Web Sevices		and the second se		
🗉 🛄 Trax			✓ Search 113	Q
📮 Block Detail Upload				
🗉 🚞 Test Case Definition		Organize 🔻 New folder	8== 👻	
Runchart Definition		Name	Date modified	Туре
📮 Test Case Data Upload		X Favorites		
Create Request		n Desktop 📄 source.txt	9/6/2013 11:17 AM	TXT File
Test Case Execution		Downloads 📄 STDCUSAC_R	AD.xml 2/11/2011 3:47 PM	XML File
Runchart Execution		💹 Recent Places		
📮 Test Case Data Bulk Upload				
Execution Report Generic Interface Formats		E Desktop		
Generic Interface Formats		Elibraries		
Purge Generation				
- Purge Generation		📕 panraju 🗏		
		🖳 Computer		
		🚢 System (C:)		
		🕞 Data (D:)		
		🔮 DVD RW Drive (		
		FLEXCUBE_Kerr		
		Xperia L		
		Network		
		-		
		Control Panel		
		🦉 Recycle Bin 👻 🧹	III	•
		File name: source.txt	✓ All Files (*.*)	-
		The name. Source.txt	Airries ( . )	
			Open C	ancel

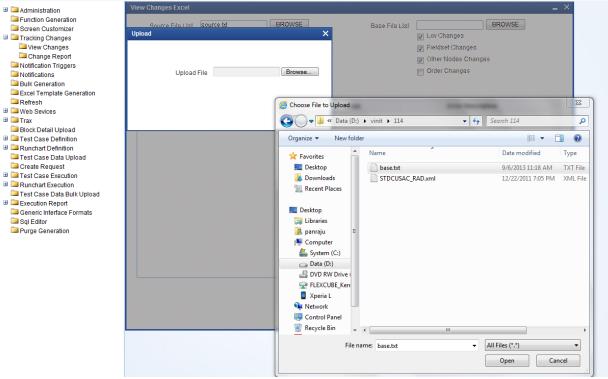
Fig 4.1.3: Selecting source file list text file for View Changes Report

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

	📃 ba	se.txt ·	- Notepad			x	
	File	Edit	Format	View	Help		
ľ	p:∖v	init	\114\51	DCUS/	AC_RAD.xml		*
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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

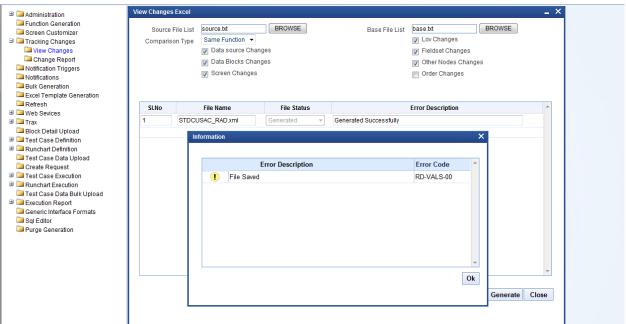


Fig 4.1.7: File Status after View Changes Report

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	Р
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			
		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

Home	10	Page Layout	Formulas Dat	a Review	v View		10				1 - 🕥
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ste 🛷 For	mat Painter	ΙŪΥ	🗄 • <mark> 🌣</mark> • <u>A</u> •	토홍콩	💷 🚛 🔤 Merge & Cen	ter ▼ \$ ▼ % → .00 →.0	Conditional Formatting	Format Cell as Table = Styles =	Insert Delete Fo	rmat Q Clear ▼	Sort & Find & Filter * Select *
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A		В	C		D	E	F		G	Н	
STATUS MODIFIED	DATASOU ICTMS AC		PROPERTIES		OLD VALUE	NEW VALUE					
		-	DEFAULT WH	IERE	prod IN (SELECT product_code FROM ictms_product_definitic WHERE product_type I', 'P'))						
MODIFIED	ACVWS_0	RTUR_LMT_I	BAL			LIMIT_PRD = (SELEC LIMIT_PRD FROM ERIO STTM_TURNOVER_P DE DS WHERE LIMIT_CC	ERIO				
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			DEFAULT WH	IERE	LIMIT_END_DATE)	LIMIT_END_DATE)					
			DATASRC TY		NORMAL						
			CHILD DATA	SRC	N		CTATU	S COLUMNS		PROPERTIES	OLD VAL
							DELETE			RUPERTIES	OLD VAL
							DELETE	biv avoit_		OLUMN NAME	BRANCH
										ATATYPE	VARCHA
										AX LENGTH	3
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										OLUMN NAME	COLLATE VARCHA
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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:

View Changes Excel				_ ×
	Browse Data source Changes Data Blocks Changes Screen Changes Other Nodes Changes	Base File List Browse	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	1		
		FIELDSET_SECTION	SEC_PREF1	SEC_PREF4
		FIELDSET_PARTITIO	SEC PART3	SEC PREF4_PART
		FIELDSET_VISIBLE	Y	N
		FIELDSET_ORDER	59	0
MODIFIE	FST_PRD			
	· · · · · · · · · · · · · · · · · · ·			
MODIFIE	FST_RML			

STATUS	FIELDSET_FIELDS	PROPERTIES	OLD VALUE	NEW VALUE
MODIFIED	LEASE_TYPE			1
	1953-19	ACTIVE	Y	N
		FIELD_ORDER	8	0
STATUS	FIELDSET_FIELDS	PROPERTIES	OLD VALUE	NEW VALUE
NEW	ROLLALWD			
		FIELD_NAME		ROLLALWD
		ACTIVE	1	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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