Oracle® FLEXCUBE Investor Servicing Development Workbench - Tracking Changes





Oracle FLEXCUBE Investor Servicing Development Workbench - Tracking Changes, Release 14.7.6.0.0

G27720-01

Copyright © 2007, 2025, Oracle and/or its affiliates.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software, software documentation, data (as defined in the Federal Acquisition Regulation), or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software," "commercial computer software documentation," or "limited rights data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed, or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle®, Java, MySQL, and NetSuite are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Contents

Preface

Purpose	iv
Audience	iv
Documentation Accessibility	\
Critical Patches	\
Diversity and Inclusion	\
Conventions	\
Screenshot Disclaimer	V
Prerequisite	V
Related Resources	V
1.1 Process Steps - View Changes Change Report	1-1
2.1 Process Steps - Change Report	2-2
Functionality Demonstration	



Preface

Oracle FLEXCUBE Investor Servicing is a comprehensive mutual funds automation software from Oracle® Financial Servicing Software Ltd.©.

You can use the system to achieve optimum automation of all your mutual fund investor servicing processes, as it provides guidelines for specific tasks, descriptions of various features and processes, and general information.

This topic contains the following sub-topics:

- Purpose
- Audience
- Documentation Accessibility
- Critical Patches
- Diversity and Inclusion
- Conventions
- Screenshot Disclaimer
- Prerequisite
- Related Resources

Purpose

This manual is designed to help FLEXCUBE Application developers/users to familiarize with ORACLE FLEXCUBE Development Workbench for Investor Servicing.

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:

Table 1 Proficiency and Resources

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



Table 1 (Cont.) Proficiency and Resources

Proficiency	Resources
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 and SQL Language	Self-Acquired
Working knowledge of XML files	Self-Acquired

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Critical Patches

Oracle advises customers to get all their security vulnerability information from the Oracle Critical Patch Update Advisory, which is available at Critical Patches, Security Alerts and Bulletins. All critical patches should be applied in a timely manner to ensure effective security, as strongly recommended by Oracle Software Security Assurance.

Diversity and Inclusion

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Conventions

The following text conventions are used in this document:



Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.

Prerequisite

Specify User ID and Password, and log in to Home Screen.

Related Resources

The functions of ORACLE FLEXCUBE Development Workbench for Investor Servicing system is organized into various guides, each discussing a component.

For more information, see these Open Development Tool documents:

- Open Development Tool Installation
- Development Workbench Getting Started
- Development Workbench Administration
- Development Workbench Screen Development I
- Development Workbench Screen Development II
- Development Workbench Source Upgrade
- Development Workbench Notifications
- Development Workbench Bulk Generation
- Development Workbench Screen Customizer
- Development of Maintenance Form
- Development of Online Form
- Development of Call Form
- Development of Launch Forms and Other Screens
- Development of Dashboard Form
- Development Workbench Service XML Development
- Development Workbench Performance Tuning Enhancements
- Development Workbench Rest Services Development
- Child and Screen Childs Concept and Design



1

View Changes

The **View Changes** page 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 display various changes in each node in the RADXML through color. For example, the modified values are displayed in Blue and the new values in Green color.

The main page of **View Changes** looks like a function generation page. On the **View Changes** page, the user is allowed to load a RADXML. Then Workbench shows 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 by using **View Changes** option in Development Workbench, the user can easily identify the changes done in the RADXML across releases and release types.

This topic contains the following sub-topics:

Process Steps - View Changes
 This topic provides systematic instructions to perform View Changes.

1.1 Process Steps - View Changes

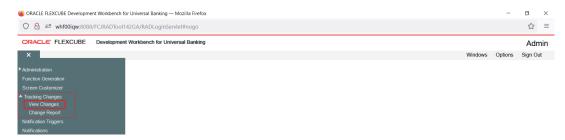
This topic provides systematic instructions to perform View Changes.

On Home Screen, under the Browser node, click Tracking Changes.

It has the following options:

- View Changes
- Change Report

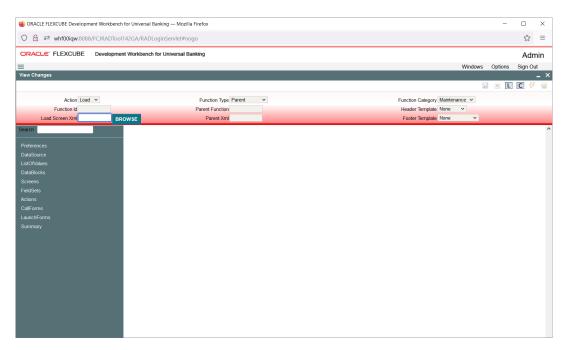
Figure 1-1 Development Workbench of Universal Banking Tracking Changes



2. Under Tracking Changes, click View Changes.

The View Changes screen displays.

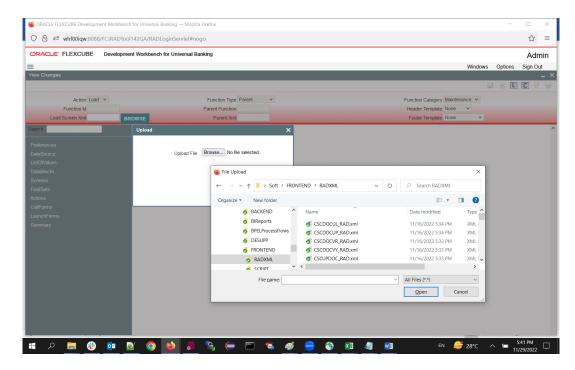
Figure 1-2 Tracking Changes_View Changes



3. Click the **BROWSE** button in the **Load Screen Xml** field to load and view the changes in the radxml across releases and release types.

The Upload and Choose File to Upload windows displays.

Figure 1-3 View Changes_Load Screen Xml_Upload





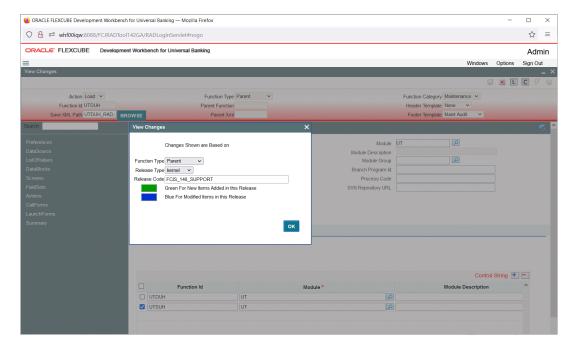
Note:

Workbench allows to view 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.

4. Load the radxml from the folder at **Choose File to Upload** window and click the **Open** button.

View Changes window will pop up and will notify the details of the function id like Function Type, Release Type and Release Code. It also notifies that changes done in the radxml as part of Cluster Release will be highlighted.

Figure 1-4 View Changes Pop-up Window



View Changes pop-up window displays.

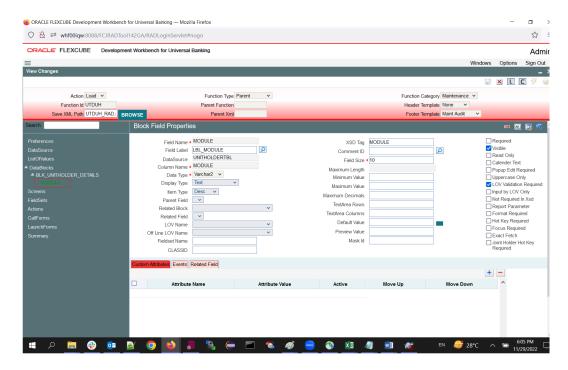
5. Load the Function Id.

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

The Workbench will show the **View Changes** screen in the below format of blue and green accordingly.









Change Report

The **Change Report** allows us to view the changes in the provided base and source list of RADXMLs and helps to get the changes done in the two RADXMLs across releases and release types.

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

The reports are generated based on two formats:

- Function Specific The Function Specific format compares RADXMLs based on the function name.
- Parent-Child The Parent-Child format compares RADXMLs based on the parent-child relation.

The below nodes are compared and a report is generated based on the differences found in the two RADXMLs given in the list.

- 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
- Process Steps Change Report

This topic explains the systematic instructions to view the changes report using the source file list and base file list in an excel format.

2.1 Process Steps - Change Report

This topic explains the systematic instructions to view the changes report using the source file list and base file list in an excel format.

On Home Screen, under the Browser node, click Tracking Changes.

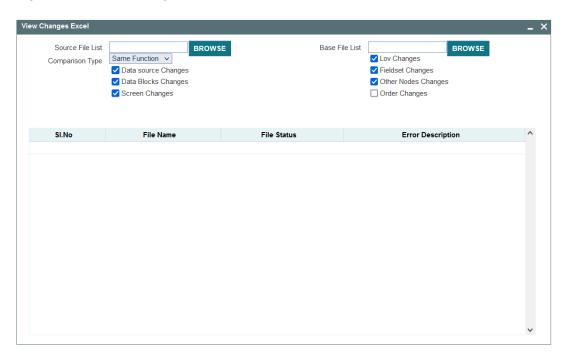
Figure 2-1 Tracking Changes_Change Report



2. Under Tracking Changes, click Change Report.

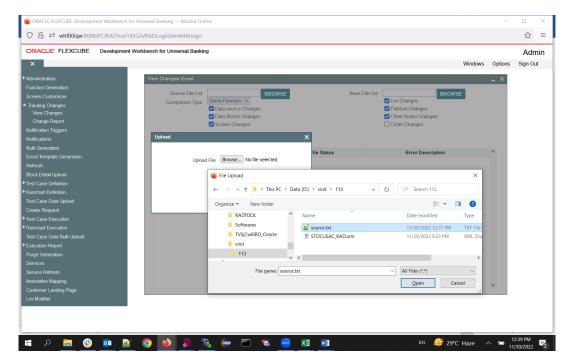
The View Changes Excel screen displays.

Figure 2-2 View Changes Excel



On the View Changes Excel screen, in the Source File List field, click Browse.
 The Upload screen displays.

Figure 2-3 View Changes Excel_Source File List_Upload



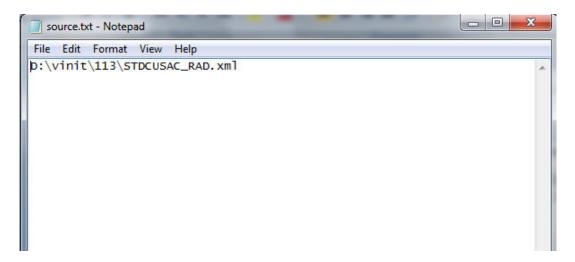
On the Upload screen, click Browse.

The Choose File to Upload pop-up window displays.

On the Choose File to Upload pop-up window, select the source file (source.txt) and click Open.

The source file list is a text file that contains the absolute path of all the RADXMLs to be compared.

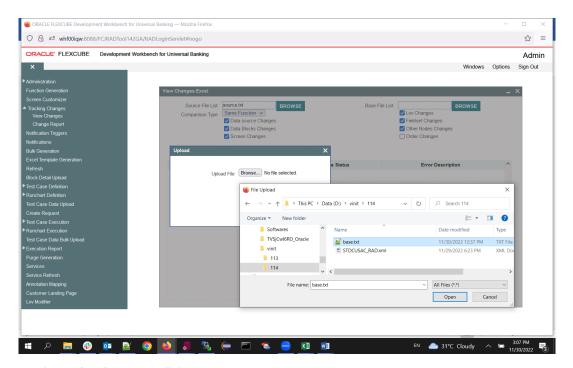
Figure 2-4 Source text file



In the above screen, here **STDCUSAC** is the source RADXML that has to be compared as an example. If a **View Changes** report of more than one Function ID is required, the absolute path of each RADXML has to be specified in a new line.

On the View Changes Excel screen, in the Base File List field, click Browse.The Upload screen displays.

Figure 2-5 View Changes Excel_Base File List_Upload

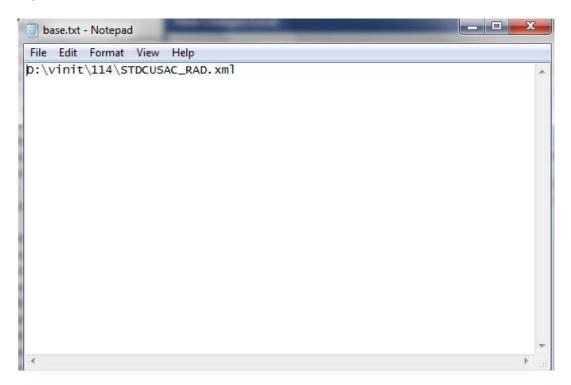


- On the Upload screen, click Browse.
- 8. On the **Choose File to Upload** pop-up window, select the base file (base.txt) and click **Open**.

The base file list is a text file that contains the absolute path of all the base RADXMLs to be compared.



Figure 2-6 Base File List



In the above screen, here **STDCUSAC** is the base RADXML that has to be compared as an example. If a **View Changes** report of more than one Function ID is required, the absolute path of each base RADXML has to be specified in a new line.

9. On the View Changes Excel screen, specify the fields.

Table 2-1 View Changes Excel - Field Description

Field	Description
Comparison Type	Select the Comparison Type as Function Specific from the dropdown list.
Changes	Select the following checkboxes as required to compare the below nodes. Data Source Changes Data Blocks Changes Screen Changes LOV Changes Fieldset Changes Other Nodes Changes
File Location	Select the file location as a client if the path provided is in the client machine.

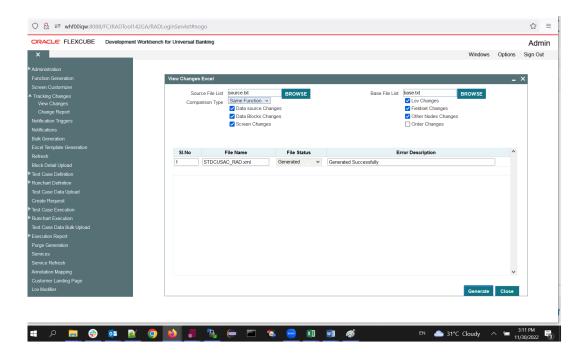
10. On the **View Changes Excel** screen, click **Generate**.

Note:

The processing time varies depending on the number of files provided, the size of each file, etc.,

After Completion of the process, the system displays the status. File status is generated successfully if the comparison is successful.

Figure 2-7 View Changes Excel_File Status



Generated Files -

- a. Excel Report of Changes A war file named RAD is created and shown after a successful process of comparing, which will contain Excel files for the particular source RADXMLs. For example, PANDETIP_FRONTEND_LOG.txt
- b. Log Files
 - View Comparison Log This contains the status of all the files compared.
 - View Comparison Report This file is used for troubleshooting.

All the nodes will be compared and will be painted in the excel sheet based upon the values of the base and source list of RADXML's, the values will be having 3 statuses (**NEW**, **MODIFIED**, **DELETED**). Based on this status old and new values will be shown in the view changes report.



Functionality Demonstration

This topic explains the functionality of the view changes report.

On the STDCUSAC.xls file, click the Copyright Clause tab to view the copyright details.

Figure 3-1 Copyright Clause

This source is part of the FLEXCUBE Software System and is copyrighted by Oracle Financial Services Software Limited.

All rights reserved. No part of this work may be reproduced, stored in a retrieval system, adopted or transmitted in any form or by any means, electronic, mechanical, photographic, graphic, optic recording or otherwise, translated in any language or computer language, without the prior written permission of Oracle Financial Services Software Limited.

Oracle Financial Services Software Limited. 10-11, SDF I, SEEPZ, Andheri (East), Mumbai -400096. India.

Copyright 2008-2010 by Oracle Financial Services Software Limited. All rights reserved.

The comparison of STDCUSAC (FCUBS_11.2.0) and STDCUSAC (FCUBS_11.4.0) is displayed in the Header tab.

Figure 3-2 STDCUSAC screen Header changes

	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	Р	Р
FUNCTION_CATEGORY	MAINTENANCE	MAINTENANCE
_		

On the **PREFERENCES** tab, the change report compares two RADXML's and forms one Dom with the nodes and displays the difference between two RADXML's with old and new values.

Figure 3-3 STDCUSAC screen Preferences changes

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

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

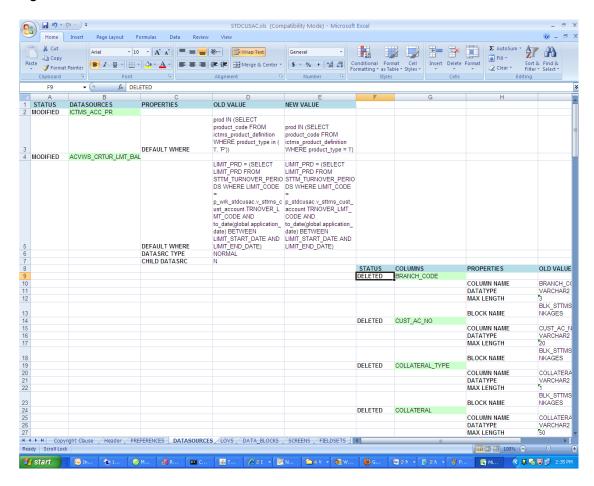
The change report compares the two function id's and paints the excel sheet for the preferences node of the compared RADXML. Here in preferences, the status node is displayed as Modified and the modified node is Preferences. The property of the modified preferences node is **TXN BLOCK NAME**. The Old value is **BLK_CUST_ACCOUNT** and new value is null for the STDCUSAC (**FCUBS_11.3.0**) and STDCUSAC (**FCUBS_11.4.0**) has block_cust_account as **TXN BLOCK**.

Preferences will show the difference in both versions of the releases. The nodes representing here are:

- PREFERENCES
- MENU_DETAILS

On the **DATASOURCES** tab, change report compares the two function ids and paints the excel sheet for the Data Sources node of the compared RADXML. Data Sources will show the difference in both versions of the releases.

Figure 3-4 DATASOURCES



The nodes representing on the DATASOURCES tab are:

- DATASOURCES
- COLUMNS

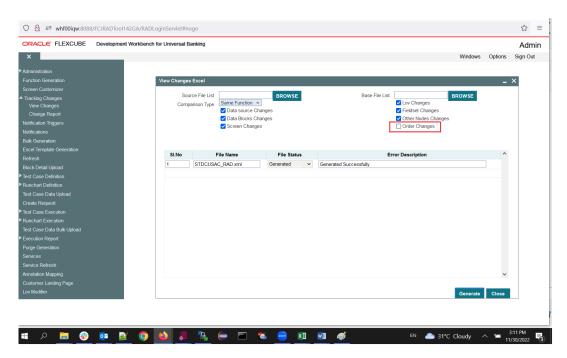
4

Order Changes

This topic explains the systematic instructions for the Order Changes in the View Changes Excel screen.

On the Development Workbench, under Tracking Changes, click Change Report.
 The View Changes Excel screen displays.

Figure 4-1 Order Changes



- 2. On click of this order changes, the nodes are compared for the order maintained in the radxml of respective releases. The order changes will affect the following nodes:
 - a. FIELD_ORDER
 - b. FIELDSET_ORDER
 - c. TAB_ORDER
 - d. SEC_ORDER
 - e. DATA_BLK_ORDER
 - f. BLK_FIELD_ORDER
- On the View Changes Excel screen, input the Source File List, Base File List and check the Order Changes checkbox.
- 4. Click Generate.

(Assumption) On the Order Changes excel, the compared RADXML's changes are displayed.

All the orders are compared between sources and base RADXML's and View Changes Excel Report is generated.

5. Click the **Fieldsets** tab.

Order Changes for fieldsets is displayed.

Figure 4-2 Order Changes_Fieldsets

STATUS	FIELDSETS	PROPERTIES	OLD VALUE	NEW VALUE
MODIFIE	FST_REVOLVING_LOAN			
	1 43	FIELDSET_SECTION	SEC PREF1	SEC PREF4
		FIELDSET_PARTITIO	SEC_PART3	SEC PREF4 PART
		FIELDSET_VISIBLE	Υ	N
		FIELDSET_ORDER	59	o
MODIFIE	FST_PRD			
MODIFIE	FST_RML			
WODIFIE	F31_RIVIL			

STATUS	FIELDSET_FIELDS	PROPERTIES	OLD VALUE	NEW VALUE
MODIFIED	LEASE_TYPE			
		ACTIVE	Υ	N
		FIELD_ORDER	8	Ö
STATUS	FIELDSET_FIELDS	PROPERTIES	OLD VALUE	NEW VALUE
NEW	ROLLALWD			
		FIELD_NAME		ROLLALWD
		ACTIVE		Υ
		FIELD_ORDER		2
NEW	PRDTYPE			
		FIELD_NAME		PRDTYPE
		ACTIVE		Y
		FIELD_ORDER		3