Development Workbench - Getting Started

Oracle FLEXCUBE Universal Banking Release 14.5.3.0.0 Part No. F50379-01 [November] [2021]



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### 1 Preface

This document describes helps developer to familiarize with ORACLE FLEXCUBE Development Workbench for Universal Banking.

#### 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<br>Financial Software Services. |  |
| FLEXCUBE Object Naming conventions          | Development Overview Guide                                    |  |
| Working knowledge of Web based applications | Self Acquired   |  |
| Working knowledge of XML files              | Self Acquired   |  |

#### **1.2** Related Documents

<u>01-Development\_WorkBench\_Installation.docx</u> <u>02-Development\_WorkBench\_Administration.docx</u>

# 2 Introduction

This document contains information about the following topics:

- <u>Chapter 2 , "Introduction"</u>
- Chapter 3, "Explanation of Some Basic Icons"
- Chapter 4, "Login"
- Chapter 5, "Browser"
- Chapter 6 , "Windows"
- Chapter 7, "Launch FCUBS"
- <u>Chapter 8 , "User Preferences"</u>
- <u>Chapter 9 , "Change Password"</u>
- Chapter 10 , "Sign Out"
- <u>Chapter 11 , "About"</u>

## 3 Explanation of Some Basic Icons and Jargons

| Icons              | Function   |  |  |
|--------------------|--|--|--|
|                    | New Button used to add new User, Environment, Release etc  |  |  |
|                    | Save button used to save the work done by user.  |  |  |
| ×                  | Close button clears all the data in the screen and all buttons will be reset to initial position.  |  |  |
| I                  | Enter query button to retrieve existing data from the screen.<br>Primary key field will be get enabled.  |  |  |
| τ <mark>5</mark> 7 | Execute query button. This gets enabled on click of enter query<br>button. On click of this button it will retrieve the required data and<br>displays on the screen. |  |  |
| Ъ                  | Unlock button used to modify the existing record. On click of this, all fields except primary key fields gets enabled.   |  |  |
| <b>×</b> E         | List Of Values   |  |  |
|                    | To add New labels or modify existing labels in FLEXCUBE schema   |  |  |
| <b>5</b>           | Generate Files.  |  |  |
| <b>9</b>           | Deploy Files.  |  |  |
| ¢                  | Release Files.   |  |  |

**Radxml**: Workbench saves all the activities carried out by the developer in an xml file referred to as radxml

**Rad/RadTool/ODT**: These terms also refers to FLEXCUBE Development Workbench for Universal Banking

## 4 Client Browser Settings

> Recommended Browsers:

• Microsoft Internet Explorer 8.0

The version of Microsoft Internet Explorer 8.0 should not be a Beta version, Partner Build or a Release Candidate. It should be the Final build of Microsoft Internet Explorer 8 or later. The minimum version of Microsoft Internet Explorer 8 should be **8.0.6001.18702**. This can be verified by visiting the 'About Internet Explorer' dialog in the Help menu as shown below.

| 🖉 About Internet Explorer 🛛 🔀   |  |
|---|--|
| Windows*<br>Internet Explorer <sup>®</sup>  |  |
| Version: 8.0.6001, 18702<br>Cipher Strength: 128-bit<br>Product ID: 01398-600-2411832-23325<br>Update Versions: 0   |  |
| Warning: This computer program is protected by copyright law and<br>international treaties. Unauthorized reproduction or distribution of<br>this program, or any portion of it, may result in severe civil and<br>criminal penalties, and will be prosecuted to the maximum extent<br>possible under the law. |  |
| ©2009 Microsoft Corporation System Info   |  |

- Mozilla Firefox
- Google Chrome
- Recommended Screen Resolution: 1280\*1024 pixels

#### 4.1 IE Specific Settings

ActiveX Scripting has to be enabled to read and write files in Client Machine. Therefore, if you have to generate the files in client machine (instead of downloading as zip from server); certain settings has to be done in the browser. Client Mode is supported only in Internet Explorer. Settings required in IE for enabling writing to Client Machines is explained below

#### **MSXML 6.0 :**

Microsoft Core XML Services (MSXML 6.0) needs to be installed in the system. It can be downloaded from, <u>http://www.microsoft.com/en-us/download/details.aspx?id=3988</u>

The following IE settings need to be done to launch the Workbench Login page

- 1) Go to Internet Explorer →Tools→Internet options
- 2) Click on Security tab, select Internet and click on Custom level button as shown below:

| Internet Options  |  |  |  |  |
|---|--|--|--|--|
| General Security Privacy Content Connections Programs Advanced  |  |  |  |  |
|   |  |  |  |  |
| Select a zone to view or change security settings.  |  |  |  |  |
| 🕘 😼 🗸 🚫   |  |  |  |  |
| Internet Local intranet Trusted sites Restricted sites  |  |  |  |  |
| Internet  |  |  |  |  |
| This zone is for Internet websites,<br>except those listed in trusted and<br>restricted zones.  |  |  |  |  |
| Security level for this zone  |  |  |  |  |
| <b>Custom</b><br>Custom settings.<br>- To change the settings, click Custom level.<br>- To use the recommended settings, click Default level. |  |  |  |  |
| Custom level Default level  |  |  |  |  |
| <u>R</u> eset all zones to default level  |  |  |  |  |
| OK Cancel Apply   |  |  |  |  |

3) As security settings make all settings as enabled except **use Pop-up Blocker** as shown below

Make sure following things are enabled

- o .Allow previously unused active controls to run
- Allow script lets
- Automatic prompting for active control
- Binary and script behaviors.
- Only allow approved domains to use active control without prompting.
- Run active controls and plug-ins.
- Script active controls marked for saving.

| Security Settings - Internet Zone  | × |  |  |  |
|--|---|--|--|--|
| C Settings   | 1 |  |  |  |
| <ul> <li>Enable</li> <li>Software channel permissions</li> <li>High safety</li> <li>Low safety (not secure)</li> <li>Medium safety (recommended)</li> <li>Submit non-encrypted form data</li> <li>Disable</li> <li>Enable</li> <li>Prompt</li> <li>Use Phishing Filter</li> <li>Disable</li> <li>Enable</li> </ul> |   |  |  |  |
|  |   |  |  |  |
| *Takes effect after you restart Internet Explorer  |   |  |  |  |
| Reset custom settings  |   |  |  |  |
| Reset to: Medium-high (default)  |   |  |  |  |
|  |   |  |  |  |
| OK Cancel  | J |  |  |  |

4) Repeat the same steps for Local Intranet by selecting the same as shown below :

| Internet Options  |  |  |  |  |
|---|--|--|--|--|
| General Security Privacy Content Connections Programs Advanced  |  |  |  |  |
|   |  |  |  |  |
| Select a zone to view or change security settings.  |  |  |  |  |
|   |  |  |  |  |
| Internet Local intranet Trusted sites Restricted sites  |  |  |  |  |
| Local intranet Sites  |  |  |  |  |
| found on your intranet.   |  |  |  |  |
|   |  |  |  |  |
| Security level for this zone  |  |  |  |  |
| <b>Custom</b><br>Custom settings.<br>- To change the settings, click Custom level.<br>- To use the recommended settings, click Default level. |  |  |  |  |
| Custom level Default level  |  |  |  |  |
| Reset all zones to default level  |  |  |  |  |
| OK Cancel Apply   |  |  |  |  |

5) After all these settings are done, go to **Advanced** tab and check whether the checkbox 'Use JRE (Version) for <applet>(requires restart)' is checked or not. If its nnot checked, then it has to be checked as shown below.

| Internet Options   |  |  |  |  |
|--|--|--|--|--|
| General Security Privacy Content Connections Programs Advanced   |  |  |  |  |
| Settings   |  |  |  |  |
| <ul> <li>Send IDN server names for Intranet addresses</li> <li>Send UTF-8 URLs</li> <li>Show Information Bar for encoded addresses</li> </ul>                  |  |  |  |  |
| Use UTF-8 for mailto links<br>Java (Sun)<br>Use JRE 1.6.0_16 for <applet> (requires restart)<br/>Microsoft VM</applet>   |  |  |  |  |
| <ul> <li>Java console enabled (requires restart)</li> <li>Java logging enabled</li> <li>JIT compiler for virtual machine enabled (requires restart)</li> </ul> |  |  |  |  |
| <ul> <li>Multimedia</li> <li>Always use ClearType for HTML*</li> <li>Enable automatic image resizing</li> </ul>  |  |  |  |  |
| Play animations in webpages*   |  |  |  |  |
| *Takes effect after you restart Internet Explorer  |  |  |  |  |
| Restore advanced settings  |  |  |  |  |
| Reset Internet Explorer settings   |  |  |  |  |
| Deletes all temporary files, disables browser<br>add-ons, and resets all the changed settings.   |  |  |  |  |
| You should only use this if your browser is in an unusable state.  |  |  |  |  |
| OK Cancel Apply  |  |  |  |  |

### 5 Login

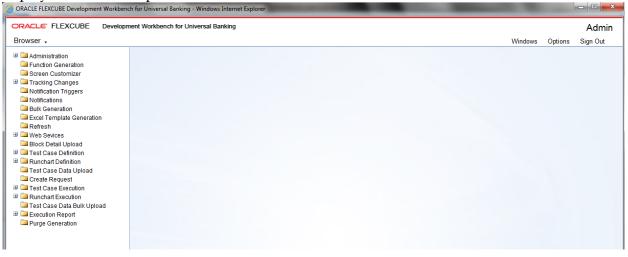
Developers will be provided with Login credentials for Workbench which has to be used for accessing the Tool

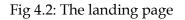
Initial login credentials, after installation, will be RADTOOL/RADTOOL. Using this credential; developer has to create release, environment and users. Refer <u>02-</u> <u>Development\_WorkBench\_Administration.docx</u> for further details.

| ORACLE FLEXCUBE Development Workbench for Universal Banking - Windows Internet Explorer | Anna Sala                            |  |
|---|--------------------------------------|--|
| ORACLE'   |                                      |  |
|   |                                      |  |
|   |                                      |  |
|   |                                      |  |
|   |                                      |  |
|   |                                      |  |
|   |                                      |  |
|   | ORACLE FLEXCUBE                      |  |
| Developi  | nent Workbench for Universal Banking |  |
|   |                                      |  |
|   | LOGIN                                |  |
|   |                                      |  |
|   |                                      |  |
|   | Password                             |  |
|   | Sign In                              |  |
|   |                                      |  |
|   |                                      |  |
|   |                                      |  |
|   |                                      |  |
|   |                                      |  |
|   |                                      |  |
|   |                                      |  |
|   |                                      |  |
|   |                                      |  |
|   |                                      |  |
|   |                                      |  |
|   |                                      |  |
| Copyright © 2012, Oracle and/or its affiliates. All rights reserved.                    |                                      |  |

Fig 4.1: ODT login Screen

On successful login Workbench landing page will be displayed as shown below. Browser will display the available options to user in tree view based on role.





Below options are available in landing page.

#### 6 Browser

It is drop down tree menu. Based on role of the user, Workbench displays the options in tree.

- Administration: This is used to add releases, environments and users.
- **Function Generation:** This is used to design FLEXCUBE screens.
- **Screen Customizer:** This is used to design FLEXCUBE screens. Main Difference between function generation and screen customizer is in screen customizer user can just modify the screen lay out. No additions and deletions allowed.
- **Tracking Changes:** This module helps in tracking the changes done in a particular release. A Change Report can be generated OR the changes can be viewed
- Notification Triggers: This will be used to create notification triggers.
- Notification: This will be used to create notification xml.
- **Bulk Generation:** This option used to generate all output files for a set of radxmls at one time.
- **Excel Template Generation:** This option will be used to generate excel template out of radxml which can be used to upload data into FLEXCUBE.
- **Refresh:** This option will be used to upgrade Radxml from lower version to higher version and to update child RADxml with parent changes.
- **Web Services:** Artifacts required for creation of a Web service can be generated using this feature.
- **Block Detail Upload:** This option will be used to upload block detailed information into schema from a set of radxml at one time.
- **Test Case Definition:** This option will be used to define new test case and modify existing test cases.
- **Run Chart Definition:** This option will be used to define run charts for test cases.
- **Test Case Data Upload:** This option will be used to upload test case data for the defined test cases. Data has to be uploaded in the standard excel formats.
- **Create Request:** This option will be used to create request xml (compatible with FLEXCUBE) for a test case data set.
- **Test Case Execution:** This option is used to execute test case on FLEXCUBE environment
- **Run Chart Execution:** This option will be used to execute run chart on FLEXCUBE environment

- **Test Case Data Bulk Upload:** This option will be used to upload multiple test case data at one time.
- **Execution Report:** This option generates report for the executed test cases and run charts

## 7 Windows

It will display all opened windows in drop down menu. User can select the required window to show on top of the tool.

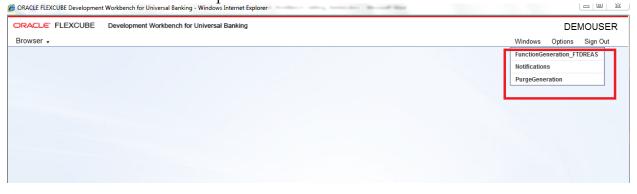


Fig 6.1: The Windows opened

# 8 Launch FCUBS

This will be used to launch FLEXCUBE link directly from Workbench. User has to maintain correct FLEXCUBE url while adding environment. Refer <u>02-Development\_WorkBench</u> <u>Administration.docx</u> details on environment creation.

| Environment Master                                      |                       | _ ×                                  |
|---|-----------------------|--------------------------------------|
|   |                       | 📄   🔚 💌   II 😿   🍗 💕                 |
| Environment Details                                     | - Application Details |                                      |
| Environment Code * FCUBS_12.0.2_DEV12                   | Application           | n URL https://10.184.132.129:7       |
| Release Code * FCUBS_12.0.2                             | Application IP Ad     | Idress 10.184.132.129                |
| Language Code * ENG 🏴                                   | Application           | Name FCUBS 12.0.2                    |
| Description 12.0.2 DEV                                  | Applicati             | ion OS Unix -                        |
| JNDI name   | Application Transfe   | er Type File Manager 👻               |
| JNDI Name * jdbc/DEV1202                                | JS Director           | ry Path /scratch/app/wl1032/us       |
| Database Details  | UI XML Director       | ry Path /scratch/app/wl1032/us       |
|   | Server User           | Name tpani                           |
| Database Instance FCUBSDEV                              | Server Pas            | sword                                |
| Database Port 1521                                      | Server Filemanage     | er URL https://10.184.132.129.7      |
| Database IP Address 10.184.132.131                      | File Manager User     | Name                                 |
| Database Host Name 10.184.132.131 Database Name DEV1202 | File Manager Pas      | sword                                |
| Balababoritanio   |                       | Test Environment                     |
| Database Password                                       |                       |                                      |
| Modification Number 5                                   | Maker Id RADTOOL      | Maker Date Stamp 2013-09-04 11:31:52 |
|   |                       | Close                                |

Fig 7.1: Launch FCUBS Screen

#### 9 User Preferences

This option will be used to set user preferences. By default user will be mapped to a release code and its corresponding environment.

If developer wants to change the working release or environment, he has to set it in this screen. Language Code: Default Language of the environment can be changed if required Save Mode: Default Save Mode of the user would be displayed here. This can be changed if required

Work Directory: Work Directory can be modified if the Save Mode.

**Excel Format**: Excel Format can be changed from the value defined at User Definition screen **XML Indentation**: If the generated Xmls has to intended, this option can be checked. Note that XML indentation feature won't be available if Save Mode ids Client

| Pr | eferences   |  | _ ×       |
|----|---|--|-----------|
|    |   |  |           |
|    | Release Code<br>Environment Code<br>Language<br>Save Mode<br>Work Directory<br>Excel format | FCUBS_12.0.2   FCUBS_12.0.2_ENV1   ENG   Zip   XLS   XML Indentation |           |
|    | - Release Details   |  |           |
|    | Release Code:   | FCUBS_12.0.2   |           |
|    | Release Type:   | KERNEL   |           |
|    | - Environment Details   | Environment For Mallika Gollapa                                      | -         |
|    | Description:  |  |           |
|    | Schema:   | FC1202DEV@FCUBSUPP   |           |
|    | Language:   | English  |           |
|    |   |  |           |
|    |   |  | OK Cancel |

Fig 8.1: User Preferences Screen

After changing required fields click on **Set button** for changing the details

| Pr | references  |  | _ ×       |
|----|---|--|-----------|
|    | Release Code<br>Environment Code<br>Language<br>Save Mode | FCUBS_12.0.2                           |           |
|    | Work Directory<br>Excel format                            | D:\RADTOOL<br>XLS -<br>XML Indentation |           |
|    | Release Code:   | FCUBS_12.0.2                           |           |
|    | Release Type:   | KERNEL                                 |           |
|    | - Environment Details                                     |  | -         |
|    | Environment<br>Description:                               | Environment For Mallika Gollapa        |           |
|    | Schema:   | FC1202DEV@FCUBSUPP                     |           |
|    | Language:   | English                                |           |
|    |   |  | OK Cancel |

Fig 8.2: The screen to change preferences

Changes done in user preferences on release, environment or work directory will effect only to the current session. On sign out and re-login, default release details will be assigned again. If developer wishes to change default settings for the user, same can be done by modifying the default options for the User in Administration section

## 10 Change Password

This option can be used to change User Password. Enter old password and new password and confirm password.

| Change Password  | _ ×       |
|------------------|-----------|
|                  |           |
| Old Password     |           |
| New Password     |           |
| Confirm Password |           |
|                  |           |
|                  | OK Cancel |
|                  |           |

Fig 9.1: Screen to change password

Click on change button. On successful change it will display message.

| Info | rmation |  |            | ×  |
|------|---------|--|------------|----|
|      |         |  |            |    |
|      |         | Error Description                      | Error Code | *  |
|      |         | Password Has Been Changed Successfully | RD-VALS-00 |    |
|      |         |  |            |    |
|      |         |  |            |    |
|      |         |  |            |    |
|      |         |  |            |    |
|      |         |  |            |    |
|      |         |  |            | ~  |
| ľ '  |         |  |            | Ok |
|      |         |  |            | UK |
|      |         |  |            |    |

Fig 9.2: Message on password change

## 11 Sign Out

On click of sign out button user will logout from FLEXCUBE Development Workbench. All opened windows will get closed automatically. It will redirect to login page.

## 12 About

On click of this, Development Workbench version information popup window will get displayed.

| Со | pyright _  | × |
|----|--|---|
|    |  |   |
|    | ORACLE FLEXCUBE  |   |
|    | Development Workbench for Universal Banking  |   |
|    | Version : 12.0.2   |   |
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|    | Cancel   |   |

Fig 11.1: 'About' Screen that gives details of ODT



Development Workbench - Getting Started [November] [2021] Version 14.5.3.0.0

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