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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:

<table>
<thead>
<tr>
<th>Proficiency</th>
<th>Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLEXCUBE Functional Architecture</td>
<td>Training programs from Oracle</td>
</tr>
<tr>
<td></td>
<td>Financial Software Services.</td>
</tr>
<tr>
<td>FLEXCUBE Object Naming conventions</td>
<td>Development Overview Guide</td>
</tr>
<tr>
<td>Working knowledge of Web based</td>
<td></td>
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<tr>
<td>applications</td>
<td>Self Acquired</td>
</tr>
<tr>
<td>Working knowledge of XML files</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Self Acquired</td>
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</tbody>
</table>

1.2 Related Documents

- 01_ODT_Installation.pdf
- 02-Development_WorkBench_Administration.pdf

2 Introduction

This document contains information about the following topics:

- Chapter 2, “Introduction”
- Chapter 3, “Explanation of Some Basic Icons”
- Chapter 4, “Login”
- Chapter 5, “Browser”
- Chapter 6, “Windows”
- Chapter 7, “Launch FCUBS”
- Chapter 8, “User Preferences”
- Chapter 9, “Change Password”
- Chapter 10, “Sign Out”
### 3 Explanation of Some Basic Icons and Jargons

<table>
<thead>
<tr>
<th>Icons</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="New Button Icon" /></td>
<td>New Button used to add new User, Environment, Release etc</td>
</tr>
<tr>
<td><img src="image2.png" alt="Save Button Icon" /></td>
<td>Save button used to save the work done by user.</td>
</tr>
<tr>
<td><img src="image3.png" alt="Close Button Icon" /></td>
<td>Close button clears all the data in the screen and all buttons will be reset to initial position.</td>
</tr>
<tr>
<td><img src="image4.png" alt="Enter Query Button Icon" /></td>
<td>Enter query button to retrieve existing data from the screen. Primary key field will be get enabled.</td>
</tr>
<tr>
<td><img src="image5.png" alt="Unlock Button Icon" /></td>
<td>Unlock button used to modify the existing record. On click of this, all fields except primary key fields gets enabled.</td>
</tr>
<tr>
<td><img src="image6.png" alt="List Of Values Icon" /></td>
<td>List Of Values</td>
</tr>
<tr>
<td><img src="image7.png" alt="Generate Files Icon" /></td>
<td>To add New labels or modify existing labels in FLEXCUBE schema</td>
</tr>
<tr>
<td><img src="image8.png" alt="Deploy Files Icon" /></td>
<td>Generate Files.</td>
</tr>
<tr>
<td><img src="image9.png" alt="Release Files Icon" /></td>
<td>Deploy Files.</td>
</tr>
<tr>
<td><img src="image10.png" alt="Release Files Icon" /></td>
<td>Release Files.</td>
</tr>
</tbody>
</table>

**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.

- 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:


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](image)

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

Make sure following things are enabled
- 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.

4) Repeat the same steps for Local Intranet by selecting the same as shown below:
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 it's not checked, then it has to be checked as shown below.
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 02-Development_WorkBench_Administration.pdf for further details.

![ODT login Screen](image)

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.

![The Windows opened](image)

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 02-Development_WorkBench_Administration.pdf details on environment creation.

![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.

- **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

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![User Preferences Screen](image.png)

Fig 8.1: User Preferences Screen

After changing required fields click on **Set button** for changing the details
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](image1.png)

Fig 9.1: Screen to change password

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

![Password Change Message](image2.png)

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.

Fig 11.1: ‘About’ Screen that gives details of ODT