FLEXCUBE UBS Installation Oracle FLEXCUBE Universal Banking Release 12.4.0.0.0 [May] [2017]



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# 1. FLEXCUBE UBS Installation

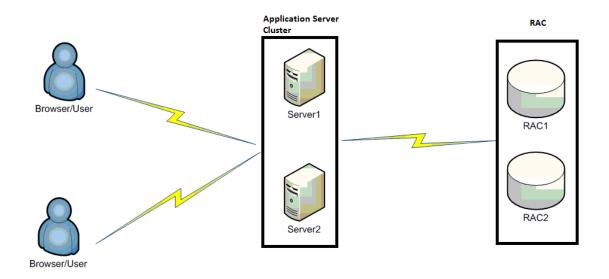
## 1.1 Introduction

This manual is designed to help acquaint you with the various deployment options supported by the installer, the various components that make FLEXCUBE UBS, the plug-ins that are supported by these components and the detailed installation steps of the various components supported by Oracle FLEXCUBE.

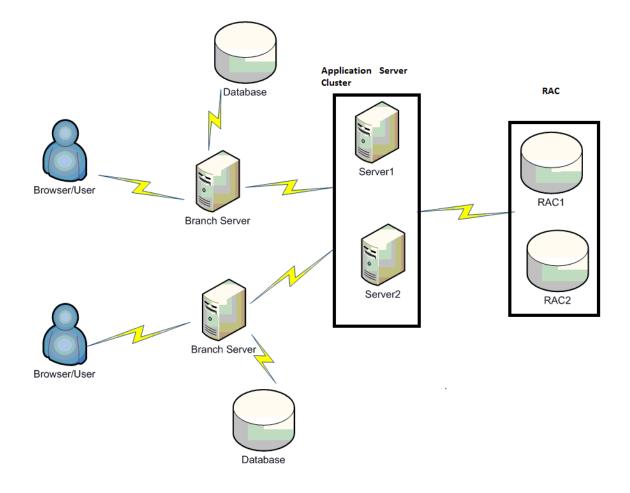
## 1.2 Deployment Options

Centralized	In this mode there will be only one setup. The build, configuration and deployment would be targeted to this setup alone.	
De-Centralized	Here there would be 2 setups, i.e. Host and Branch. Build, configuration and deployment would be done separately for each of these setup.	
Hybrid	Combination of both the above said. Build, configuration and deployment would be based on what is handled by each of the setup.	

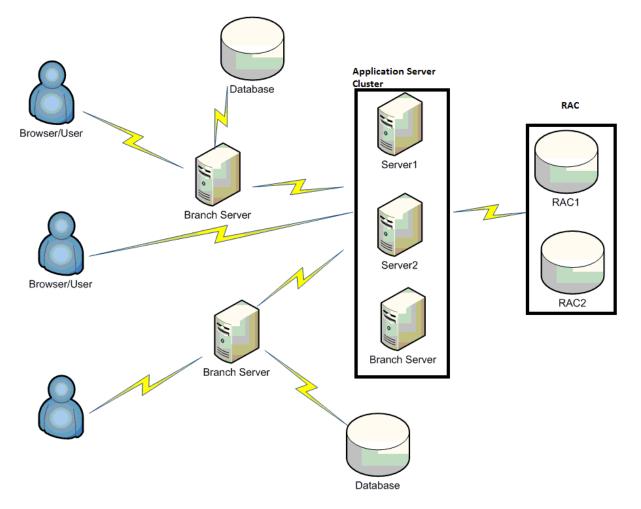
## 1.2.1 Centralized



## 1.2.2 Decentralized



#### 1.2.3 Hybrid



## 1.3 Oracle FLEXCUBE Installation Varieties

Installing FLEXCUBE can happen in multiple varieties. Please follow steps mentioned in first 3 sections before starting any installation steps.

Installer does not accept spaces in file path. Its applicable for all path including but not limited to source path, temp destination directory, property file path etc.

The below screenshot shows sample "FC Home" folder structure. This is the location to be pointed, if installer asks for FC Home directory.

<u>E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp	ile <u>E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp						
ganize 🔻 🛛 🔀 Open 🛛 Include in library 🔻	Share with	n ▼ Burn New folder					
a 📕 Echome	*	Name	Date modified	Туре	Size		
ADAPTERS		ADAPTERS	1/30/2015 5:44 PM	File folder			
BACKEND		BACKEND	4/29/2015 6:14 PM	File folder			
Þ 퉲 BOTG		BOTG	1/30/2015 5:45 PM	File folder			
D 🍱 BPEL		BPEL	1/30/2015 5:45 PM	File folder			
Ill Clusters		Clusters	1/30/2015 5:45 PM	File folder			
🎉 DataDumps		DataDumps	12/12/2014 11:06	File folder			
D 🏭 ELCM		ELCM	1/30/2015 5:45 PM	File folder			
D 🎳 FCMH		FCMH	1/30/2015 5:51 PM	File folder			
FCUBS		FCUBS	5/14/2015 5:43 PM	File folder			
FIC-REPORTING		FIC-REPORTING	1/30/2015 5:51 PM	File folder			
FRONTEND			3/17/2015 4:17 PM	File folder			
🖻 퉲 Gateway		Gateway	2/25/2015 6:37 PM	File folder			
GatewayServices		GatewayServices	5/14/2015 5:01 PM	File folder			
D 🏭 INFRA		INFRA	5/14/2015 5:50 PM	File folder			
D INSTALLER			1/30/2015 5:53 PM	File folder			
INSTALLSCRIPTS			2/3/2015 12:56 PM	File folder			
Interface		Interface	1/30/2015 5:56 PM	File folder			
D 📗 MAIN		MAIN	1/30/2015 5:56 PM	File folder			
Patches		Patches	5/7/2015 3:02 PM	File folder			
FCUBS_12.0.3.2.5		SwitchGateway	1/30/2015 5:56 PM	File folder			
FCUBS_12.1.0.1		TOOLS	1/30/2015 5:59 PM	File folder			
4 📕 FCUBS_12.1.0.2		UTScripts	1/30/2015 6:00 PM	File folder			
D 📕 ADAPTERS	=	WBDEC	6/10/2015 3:56 PM	File folder			
ELCM		FCHome.ini	6/22/2015 11:47 AM	Configuration sett	1		

In the above screenshot, main release content can be found directly under **FCHOME** directory and **Patches** directory contains patch release contents.

#### 1.3.1 Creating New FCHome

- 1. Extract the ZIP file FCUBS\_<Version>\_<Release Date>.zip
- 2. Create a FCHOME Folder and extract the above zip into this folder.
- 3. Make sure that FCHOME Directory is accessible by both Application server and Database Server.

#### 1.3.2 Updating FCHome with Patchsets

- 1. Extract the ZIP file **FCUBS\_ <Version>.0.<Patch No>.zip** into FCHOME \Patches folder .Use the option Extract To and choose the folder FCHOME\Patches.
- 2. You find the extracted patch under the folder FCUBSHOME\Patches\.

### 1.3.3 Updating FCHome with ROLLED Patchsets

1. Extract the ZIP file **FCUBS\_ <Version>.<Rolled Patch No>.0.zip** into FCHOME\Patches folder. Use the option Extract To and choose the folder FCHOME\Patches.

2. You find the extracted patch under the folder FCUBSHOME\Patches\.

#### 1.3.1 New Installation

This section explains the step by step procedure for fresh installation using installer:

- 1. Apply the environment settings for FLEXCUBE. (Refer to the document OraclerFLEXCUBE\_FCUBS\_Pre-requisites).
- 2. Navigate to the folder which was chosen as FCHOME and Launch the installer by running FCUBSInstaller.bat in the Installer folder.
- 3. Select Database in Oracle FLEXCUBE Installer and provide the FCHOME path. (Refer FCUBS\_DB\_Setup document under FCUBS Components > FCUBS)
- 4. For creating application, create a property file with the required plug-ins. Refer FCUBS\_Property\_File\_Creation document under FCUBS Components > FCUBS.
- 5. Build an EAR using the property file created in step 4. Refer FCUBS\_EAR\_Building document under FCUBS Components > FCUBS.
- 6. Deploy the Built EAR in application server and login to the FLEXCUBE. Refer to application server specific Deployment documents under FCUBS Components > FCUBS.

#### 1.3.2 Cloning Existing Environment

- 1. Navigate to the folder which was chosen as FCHOME and Launch the installer by running FCUBSInstaller.bat in the Installer folder.
- Import a dump of FLEXCUBE database. (Refer 'Installing Oracle FLEXCUBE Database' chapter of FCUBS\_DB\_Setup document under FCUBS Components > FCUBS)
- 3. Create two FLEXCUBE Users using Installer.(Refer User\_Creation\_Utility document under Utilities).
- 4. Get the Property file of the Environment to be cloned and Modify the property file by loading it in the Installer.
- 5. Update the Ear file with the New Property File.
- 6. Deploy the Built EAR in application server and login to the FLEXCUBE.
- 7. Login into FLEXCUBE using the users created as part of step3 and reset/Modify the Password of all the users.

#### 1.3.3 Applying Patchset

This section describes applying patchset.

#### 1.3.3.1 Applying FLEXCUBE Patch Set - Middleware

#### <u>Weblogic</u>

1. Navigate to the folder which was chosen as FCHOME and Launch the installer by running FCUBSInstaller.bat in the Installer folder.

- 2. Provide the path of the FCHOME folder
- 3. Build an EAR by loading the existing property file.
- 4. Deploy the built EAR in weblogic application server.

Building of EAR can be done in remote location but the application deployment should be done in local system where the application server in installed.

#### **Websphere**

- 1. Navigate to the folder which was chosen as FCHOME and Launch the installer by running FCUBSInstaller.bat in the Installer folder.
- 2. Provide the path of the FCHOME folder
- 3. Build an EAR by loading the existing property file
- 4. Deploy the built EAR in websphere application server.

#### 1.3.3.2 Applying FLEXCUBE Patch set - DATABASE

- 1. Navigate to the folder which was chosen as FCHOME and Launch the installer by running FCUBSInstaller.bat in the Installer folder.
- 2. Select Database setup option.
- 3. Provide the path of the FCHOME folder
- 4. Provide Database server connection details
- 5. Apply the patch set into the Database server.

## 1.4 Components of Oracle FLEXCUBE

Following are the components of the oracle FLEXCUBE:

- Open Development Tool (ODT)
- FLEXCUBE Universal Banking Solution (FCUBS)
- FLEXCUBE General Ledger (FGL)
- GATEWAY
- Restful Services
- SWITCH Interface Installation
- Standalone Scheduler
- Standalone ELCM
- Standalone Payments

#### 1.4.1 Plug-Ins Required

Application	Plug-ins Supported
ODT	Not applicable

FCUBS	Reports
	Scheduler
	Document Management System
	Branch
	• BPEL
	Bank In Box
	OFTW
	ELCM
	Insulation
Standalone ELCM	Reports
	• BPEL
	Scheduler
	• DMS
FGL	Reports
	Scheduler
	<ul> <li>Document Management System</li> </ul>
Gateway	Not applicable
Restful Services	Not applicable
Switch Interface Installation	Not applicable
Standalone Scheduler	Not applicable
Standalone Payments	Not applicable
Standalone OFCL	Not applicable

#### 1.4.2 <u>Setting up the Plug-Ins</u>

The Setting\_up\_Plugins document describes the step by step details of setting up the various plug-ins supported by FLEXCUBE. This is under FCUBS Main.

#### 1.4.3 Manual Deployment

This section explains the steps to deploy Oracle FLEXCUBE UBS application manually. Application server resources required are detailed in "Resources\_To\_Be\_Created" document.This is present under Environment Setup > Application Server

Follow the document "FCUBS\_Manual\_Deployment\_WL" for Weblogic.

For Websphere please follow "FCUBS\_Manual\_Deployment\_WAS".

For Tomcat, please refer to the document "Branch\_Deployment\_on\_Tomcat".

Tomcat is supported only for Deployment of Decentralized branch war file. FCUBS EAR deployment is only on Weblogic or Websphere.

All these documents are present in the Environment Setup > Application Server.

#### 1.4.4 ODT Application Installation

All documents can be referred under FCUBS Components > ODT.

Database Installation	This document gives the step by step instructions for setting up ODT Data Base. It also explains the process of importing full dump, and also explains the process of loading static data. Refer to document ODT_DB_Setup		
Building Ear	ar This section explains the detailed instructions to be followed for Building ODT EAR, it explains the step by step instructions for building the EAR with the corresponding property file. Refer to document ODT_EAR_Building		
Application Deployment	Weblogic	This section gives the detailed instructions for FULL deployment of ODT application in weblogic server, it also explains the basic instructions for creating the resources required for deployment of UBS application using installer. Refer to document ODT_Application_Deployment_Weblogic.	
Websphere		This section gives the detailed instructions for FULL deployment of ODT application in websphere server, it explain the steps to be followed for deploying UBS application in websphere server using installer.Refer to document ODT_Application_Deployment_Websphere	

### 1.4.5 FCUBS Application Installation

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All documents can be referred under FCUBS Components > FCUBS.

This Section describes the various operations performed for FCUBS application. This application is operated in two modes during property file creation:					
Custom mode: All inputs are provided by the user.					
<ul> <li>Default Mode: Property file is created by considering the default properties. User inputs are minimal.</li> </ul>					
Database Installation	This document gives the step by step instructions for setting up FCUBS Data Base. It also explains the process of importing full dump, and also explains the process of loading static data. Refer to the document FCUBS_DB_Setup				

Building Property File	Building FCUE the property fi	BS Property file le with plug-ins	iled instructions to be followed for , it explains the instructions for setting up and plug-in related properties. Refer to rty_File_Creation	
Building Ear	This section explains the detailed instructions to be followed for Building FCUBS EAR, it explains the step by step instructions for building the EAR with the corresponding property file. Refer to the document FCUBS_EAR_Building			
	Weblogic	FULL Deploymen t	This section gives the detailed instructions for FULL deployment of UBS application in weblogic server, it also explains the basic instructions for creating the resources required for deployment of UBS application. Refer to the document FUBS_Application_Deployment_Weblog ic	
Application Deployment		Patch/Patc hset Deploymen t	This section gives the detailed instructions for Partial deployment of UBS application, It explains the steps for deployment of the patches of the existing ear in weblogic server. Refer to the document FUBS_Application_Deployment_Weblog ic	
	Websphere	FULL Deploymen t	This section gives the detailed instructions for FULL deployment of UBS applicationin websphere server, it explain the steps to be followed for deploying UBS application in websphere server using installer Refer to the document FUBS_Application_Deployment_Websp here	
		Patch/Patc hset Deploymen t	This section gives the detailed instructions for partial deployment of UBS application in websphere server, it explains the steps to be followed for deploying the patches for the existing application in websphere server. Refer to the document FUBS_Application_Deployment_Websp here	

## 1.4.6 FLEXCUBE General Ledger Application Installation

All documents can be referred under FCUBS Components > FGL

Database Installation	This document gives the step by step instructions for setting up FLEXCUBE GENRAL LEDGER Data Base. It also explains the process of importing full dump, and also explains the process of loading static data.Refer to the document FGL_DB_Setup		
Building Property File	This section explains the detailed instructions to be followed for Building FLEXCUBE GENRAL LEDGER Property file, it explains the instructions for setting up the property file with plug-ins and plug-in related properties. Refer to the document FGL_Property_File_Creation		
Building Ear	This section explains the detailed instructions to be followed for Building GENERAL LEDGER EAR, it explains the step by step instructions for building the EAR with the corresponding property file. Refer to the document FGL_EAR_Building		
	Weblogic	FULL Deployment	This section gives the detailed instructions for FULL deployment of GENERAL LEDGER EAR application in weblogic server, it also explains the basic instructions for creating the resources required for deployment of UBS application using installer. Refer to the document FGL_Application_Deployment_Weblogi c
Application Deployment		Patch/Patchs et Deployment	This section gives the detailed instructions for Partial deployment of GENERAL LEDGER EAR application, it explains the steps for deployment of the patches of the existing ear in weblogic server using installer. Refer to the document FGL_Application_Deployment_Weblogi c
	Webspher e	FULL Deployment	This section gives the detailed instructions for FULL deployment of GENERAL LEDGER EAR application in websphere server, it explain the steps to be followed for deploying UBS application in websphere server using installer. Refer to the document FGL_Application_Deployment_in_Webs phere
		Patch/Patchs et Deployment	This section gives the detailed instructions for partial deployment of GENERAL LEDGER EAR application in websphere server, it explains the steps to be followed for deploying the patches for the existing application in websphere server using installer. Refer to the document

	FGL_Application_Deployment_in_Webs phere
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#### 1.4.7 GATEWAY Application Installation

All documents can be referred under FCUBS Components > Gateway.

Building Property file	This section explains the detailed instructions to be followed for Building GATEWAY Property file, it explains the instructions for setting up the property file with plug-ins and plug-in related properties. Refer to the document GATEWAY_Property_File_Creation			
Building Ear         This section explains the detailed instructions to be follow           Building GATEWAY EAR, it explains the step by step ins         building the EAR with the corresponding property file. Ref           document         Gateway_EAR_Building				
Application Deployment	Weblogic	This section gives the detailed instructions for FULL deployment of GATEWAY application in weblogic server, it also explains the basic instructions for creating the resources required for deployment of UBS application using installer. Refer to the document Gateway_Application_Deployment_Weblogic		
	Websphe re	This section gives the detailed instructions for FULL deployment of GATEWAY application in websphere server, it explain the steps to be followed for deploying UBS application in websphere server using installer. Refer to the document Gateway_Application_Deployment_Websphere		

## 1.4.8 <u>Restful Services</u>

All documents can be referred under FCUBS Components > Restful Services.

Building Ear	Building Rea	explains the detailed instructions to be followed for stful Service EAR, it explains the step by step instructions the EAR. Refer to the document ce_Compliation_Build
Application weblogic deploy Refer		This section gives the detailed instructions for FULL deployment of Restful application in weblogic server. Refer to the document RESTService_Deployment_Weblogic
	Websphe re	This section gives the detailed instructions for FULL deployment of Restful application in websphere server. Refer to the document RESTService_Deployment_Websphere

## 1.4.9 SWITCH Interface Installation

Building Ear for Switch interface	This section explains the detailed instructions to be followed for Building SWITCH EAR, it explains the step by step instructions for building the EAR with the corresponding property file. Refer to the document Switch_EAR_Building	
Building Ear for Monitor	This section explains the detailed instructions to be followed for Building Monitor EAR, it explains the step by step instructions for building the EAR with the corresponding property file. Refer to the document Switch_Monitor_Installation	

All documents can be referred under FCUBS Components > Switch.

## 1.4.10 FCUBS Process Flow Deployment

FCUBS Process Flow Deployment	This section describes the instructions for FCUBS process flow deployment, it also provides detailed description on deploying FCUBS BPEL process flows onto a weblogic server configured with soa suite components . It covers different approaches for deploying a process. Refer to the document FCUBS_ProcessFlow_Deployment under FCUBS Main.
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### 1.4.11 FLEXCUBE Information Server Deployment

FIS Utility	This document explains the steps to be done in <u>FLEXCUBE installer</u> to install FIS.			
ODI Configuration	This document explains the <u>Oracle Data Integrator (ODI) Configuration</u> steps for FIS.			
Merge Repositories	This document explains the steps to be done to <u>Merge OBIEE</u> <u>Repositories</u> .			
	Note: This is optional; you can refer only if there is a need to merge repositories.			

#### 1.4.12 Standalone Scheduler Installation

All documents can be referred under FCUBS Components > Scheduler.

Building Property file	This section explains the detailed instructions to be followed for Building Scheduler Property file, it explains the instructions for setting up the property file with plug-ins and plug-in related properties. Refer			
	to the document Scheduler_Property_File_Creation			

Building Ear	This section explains the detailed instructions to be followed for Building Scheduler EAR, it explains the step by step instructions for building the EAR with the corresponding property file. Refer to the document Scheduler_EAR_Building		
Application Deployment	Weblogic	This section gives the detailed instructions for FULL deployment of Scheduler application in weblogic server, it also explains the basic instructions for creating the resources required for deployment of UBS application using installer. Refer to the document Scheduler_Deployment_Weblogic	
	Websphe re	This section gives the detailed instructions for FULL deployment of Scheduler application in websphere server, it explain the steps to be followed for deploying UBS application in websphere server using installer. Refer to the document Scheduler_Deployment_Websphere	

## 1.4.13 Standalone ELCM Installation

All documents can be referred under FCUBS Components > ELCM > FCELCM Components

Database Installation	This document gives the step by step instructions for setting up ELCM Data Base. It also explains the process of importing full dump, and also explains the process of loading static data. Refer to the document ELCM_DB_Setup		
Building Property File	This section explains the detailed instructions to be followed for Building ELCM Property file, it explains the instructions for setting up the property file with plug-ins and plug-in related properties. Refer to the document ELCM_Property_File_Creation		
Building Ear	This section explains the detailed instructions to be followed for Building ELCM EAR, it explains the step by step instructions for building the EAR with the corresponding property file. Refer to the document ELCM_EAR_Building		
	Weblogic	FULL Deploymen t	This section gives the detailed instructions for ELCM EAR application in weblogic server, it also explains the basic instructions for creating the resources required for deployment of UBS application using installer. Refer to the document FUBS_Application_Deployment_Weblogic
Application Deployment		Patch/Patc hset Deploymen t	This section gives the detailed instructions for Partial deployment of ELCM EAR application, it explains the steps for deployment of the patches of the existing ear in weblogic server using installer. Refer to the document

		FUBS_Application_Deployment_Weblogic
Websphere	FULL Deploymen t	This section gives the detailed instructions for FULL deployment of ELCM EAR application in websphere server, it explain the steps to be followed for deploying UBS application in websphere server using installer. Refer to the document FUBS_Application_Deployment_in_Websphere
	Patch/Patc hset Deploymen t	This section gives the detailed instructions for partial deployment of ELCM EAR application in websphere server, it explains the steps to be followed for deploying the patches for the existing application in websphere server using installer. Refer to the document FUBS_Application_Deployment_in_Web sphere

#### 1.4.14 Standalone Payments Installation

The setup of Standalone has to be done in a specific order as below:

#### HOST SCHEMA

- 1. Normal Database setup.
- 2. Run the Cross Grant Schema option mentioned below with source as Host and destination as PM.
- 3. Run the Module Code Entries option mentioned below for creating the module group code entries.

#### PAYMENTS SCHEMA

- 1. Run the Cross Grant Schema option mentioned below with source as PM and destination as Host.
- 2. Normal Database setup.

All documents can be referred under FCUBS Components > Standalone Payments.

Database InstallationThis document gives the step by step instructions for setting up Standalone Payments Data Base(Referred as PM from here on) also explains the process of loading static data. Refer to the document PM_DB_Setup	. It
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Cross Schema Grants	This document explains the process of provisioning Grants and Synonyms in HOST and PM Schema. This is a mandatory step before the PM database is ready for use. Refer to the document Cross_Schema_Scripts	
Module Code Entries	This document explains how to create the module group code entries in the HOST schema for establishing a connection with the PM schema. Refer to the document Module_Code_entries	

## 1.4.15 Standalone OFCL Installation

Documents can be referred under Oracle FLEXCUBE OFCL Installation > Oracle OFCL Components > OFCL

Oracle FLEXCUBE DB Setup	This document gives the step by step instructions for setting up OFCL Data Base. It also explains the process of importing full dump, and also explains the process of loading static data. Refer to the document Oracle FLEXCUBE DB Setup		
Oracle FLEXCUBE Property File Creation	This section explains the detailed instructions to be followed for Building OFCL Property file, it explains the instructions for setting up the property file with plug-ins and plug-in related properties. Refer to the document FCUBS_Property_File_Creation (Installer Property File Creation)		
Oracle FLEXCUBE EAR Building	This section explains the detailed instructions to be followed for Building OFCL EAR, it explains the step by step instructions for building the EAR with the corresponding property file. Refer to the document FCUBS_EAR_Building.pdf (Installer EAR Building)		
	Weblogic	FULL Deploymen t	This section gives the detailed instructions for OFCL EAR application in weblogic server, it also explains the basic instructions for creating the resources required for deployment of OFCL application using installer. Refer to the document FCUBS_Application_Deployment_Webl ogic
Application Deployment		Patch/Patc hset Deploymen t	This section gives the detailed instructions for Partial deployment of OFCL EAR application, it explains the steps for deployment of the patches of the existing ear in weblogic server using installer. Refer to the document FCUBS_Application_Deployment_Weblogic.pdf

Websphere	FULL Deploymen t	This section gives the detailed instructions for FULL deployment of OFCL EAR application in websphere server, it explain the steps to be followed for deploying UBS application in websphere server using installer. Refer to the document FCUBS_Application_Deployment_in_Websphere
	Patch/Patc hset Deploymen t	This section gives the detailed instructions for partial deployment of OFCL EAR application in websphere server, it explains the steps to be followed for deploying the patches for the existing application in websphere server using installer. Refer to the document FUBS_Application_Deployment_in_Web sphere



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