# Oracle FLEXCUBE Private Banking November 2010

Application Installation Manual - IBM Websphere 7.0

Oracle Part Number E51529-01

ORACLE' FINANCIAL SERVICES

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# > Introduction

The FCPB online application is a web-based application rendered over a thin browser. The application is deployed on a J2EE application server (J2EE 1.4/1.5) and is packaged in an .ear (Enterprise Archive) file

It is highly recommended that the deployment is done by a Websphere administrator or a person familiar with web application deployment

# Software Requirements

Operating System	Industry Standard UNIX (Solaris/IBM AIX/
Disk Space	50 GB
Memory	4 GB RAM
JDK	JDK 1.6+ (Sun Hotspot/IBM JDK)
J2EE	J2EE 1.6
Software	SQL Loader 10g (Required for file based interfaces) IBM WAS 7.0.0.0
Binaries	FCPB ear file

# > FCPB Parameter Setup

Please refer to the Application server pre-requisites document (AppServer\_PreRequisites\_v2.0.1.doc) for the pre-requisites of the application. If the pre-requisites are not setup properly, the application may not deploy correctly or may have deployment errors

## Parameter setup

Assuming that the server instance is available and the pre-requisite setup have been completed, the following parameters need to be setup on the server

## A) Heap settings

The application requires that the following heap parameters are setup for it to function properly and have a high performance

Please navigate to Application Servers -> <Server Name> -> Process Definition -> Java Virtual Machine



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Initial Heap Size: 1024M (-Xms) Maximum Heap Size: 1024M (-Xmx)

The following additional parameters need to be configured in case the Sun Hotspot JVM is used (Solaris environment)

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To be added in the Generic JVM Arguments text box space separated

- -Xnoclassgc
- -XX:PermSize=256M

-server (Only for Production environments and not to be used in SIT/UAT environments) -XX:SurvivorRatio=16 (Only for Production environments and not to be used in SIT/UAT environments)

Configure the below changes to make the application log4J enable.ie, loading the classes in parent last order.

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E Security	Run in development mode	
Environment	Parallel start Specifies whether to speed the startup of the application	
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Then, keep the attached file in the below given directory. D:\<<WASINSTALL>>\profiles\AppSrv01\properties



commons-logging.properties

# B) Datasource creation

The application uses data sources to connect to the database and for enhanced throughput and resource management. Please following the steps in sequence to configure it correctly

## Creation of authentication alias



Click on the Security tab on the left and once the screen loads up, click on the link J2C authentication data. The following screen comes up

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E Guided Activities	Global security > JAAS - J2C authentication data > New		Field help
E Servers	Specifies a list of user identities and passwords for Java(TM) 2 connector security to use.		Specifies the name of the authentication data entry.
E Server Types	General Properties		Page help
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Please enter the database credentials of the application user schema that would be created as part of the database setup process.

Please note that in case you are importing a dump (typically in SIT), it is recommended that you create this alias using the schema owner credentials.

Click on Apply -> OK -> Save directly to the master configuration



The authentication alias has been created successfully

#### Creation of JDBC provider

Click on Resources -> JDBC -> JDBC Providers. The following screen is loaded. Click on the new button and also ensure that the scope is set properly to the server level



The following screen gets loaded. Please select the values as noted below. The name and description can be as the administrator requires. Click on Next

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Please enter the exact location of the file ojdbc14.jar, which is the thin driver for the Oracle database and then next



The summary page is displayed. Click on Finish and Save directly to the master configuration once the next screen loads up



Click the newly created click JDBC provider and change the ojdbc jar name(ojdbc14.jar).

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### Creation of datasource

Once the JDBC provider has been created, the corresponding datasource has to be mapped to it. Click

on JDBC -> Data sources. Once the screen below loads up, click on the New button. Ensure that the scope is at the server level

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View: All tasks	Cell=OFSMU-PWM-zone2Node01	Cell, Profile=sample	Close page
= Welcome	Create a data course		Help -
Guided Activities			-
Servers	Create a data source		For field help information,
Server Types     WebSphere application servers     WebSphere MQ servers     Web servers	Step 1: Enter basic data source information Step 2: Select JDBC provider	Select JDBC provider Specify a JDBC provider to support the datasource. If you choose to create a new JDBC provider, it will be created at the same scope as the datasource. If you are selecting an existing JDBC provider, only those providers at the current scope are available from	select a field label or list marker whan the help cursor is displayed.
Applications	Step 3: Enter	une nat.	
	database specific	Create new JDBC provider	
E Resources	data source		
<ul> <li>Schedulers</li> <li>Object pool managers</li> <li>⊞ JMS</li> <li>⊟ JDBC</li> </ul>	Step 4: Setup security aliases Step 5: Summary	(*) Select an existing JDBC provider Oracle JDBC Driver	
DBC providers     Data sources	Previous Next Can	cel	
<ul> <li>Data sources (WebSphere Application Server V4)</li> </ul>			
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Please enter the values as mentioned without any change. Click on Next

Select the JDBC Provider that was created and click on Next.

Please enter the jdbc url denoting the usage of a thin driver and the 10g Data store helper class name and click on Next







Once the summary is displayed, click on Finish and then save directly to the master configuration. The following screen gets loaded

Click on Test connection. If the setup is ok, the test should be ok.

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0	applica	tion with connections f	or accessing the database. Learn more about	this task in a guided activity. A	guided activ	ity provides a lis	t of task	
Applications	steps a	and more general info	mation about the topic.					
Services	E Sco	pe: Cell=OFSMU-PWM	-zone2Node01Cell, Node=OFSMU-PWM-zone	2Node01, Server=server1				
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## **C)** Custom Properties

Web Container Custom Properties

The FCPB application requires the following custom property set to work.

Please navigate to Application Servers -> <Server Name> -> Web container -> Custom Properties.

Click on New

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Server Types     WebSphere application servers	also use this page to change Preferences	also use this page to change the status of a specific application server.  Preferences			
<ul> <li>WebSphere MQ servers</li> <li>Web servers</li> </ul>	*** *				More information about
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Once the screen is loaded, the following values need to be entered

Name: com.ibm.ws.webcontainer.invokefilterscompatibility Value: true

Click on Apply -> OK -> Save directly to the master configuration

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#### JVM Custom Properties

Navigate to Application Servers -> <Server Name> -> Process Definition -> Java Virtual Machine -> Custom Properties. Click on New

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Application serve	ers	? _
	<ul> <li>Messages</li> <li>Changes have been made to your local configuration. You can:         <ul> <li><u>Save</u> directly to the master configuration.</li> <li><u>Review</u> changes before saving or discarding.</li> <li>The server may need to be restarted for these changes to take effect.</li> </ul> </li> </ul>	
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New Delete	- a	
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#### Define two variables

FEED\_DIR = Location of the folder on the application server where the upload files would be stored

PB\_LOG\_DIR = Location of the application log files

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The summary page is displayed below after the changes have been applied to the master configuration

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#### D) SQL Loader setup

As per the pre-requisites the SQL loader utility has to be made available and available for execution by the application server user runtime. Once the SQL loader is setup, the following needs to be done

- Make an entry in the tnsname.ora file located within the SQL Loader folder structure for the FCPB database
- tnsping from the application server machine to the database server

#### E) Email server settings

Once the email server is setup, please ensure that the table SMTP\_MST\_DETAILS is populated with the appropriate values

# FCPB Application Deployment

Once the parameter setup is complete, the FCPB application can be deployed. The deployable is a single ear file

Click on Applications -> Enterprise Applications -> Install

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Enter the path of the ear file and the context root as fcpbbank.

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Accept the default values until the summary page comes up. Click on finish

nterprise Applications						
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hosts for Web	Directory to install application					
modules	Distribute application	Yes				
→ Step 4: Summary	Use Binary Configuration	No				
	Deploy enterprise beans	No				
	Application name	fcpbear				
	Create MBeans for resources	Yes				
	Enable class reloading	No				
	Reload interval in seconds					
	Deploy Web services	No				
	Validate Input off/warn/fail	warn				
	Process embedded configuration	No				
	File Permission	.*\.dll=755#.*\.so=755#.*\.a=755#.*\.sl=755				
	Application Build ID	Unknown				
	Allow dispatching includes to remote resources	No				
	Allow servicing includes from remote resources	No				
	Allow EJB reference targets to resolve automatically	No				
	Cell/Node/Server	Click here				
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Installing
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f there are enterprise beans in the application, the EJB deployment process can take several minutes. Please do not save the configuration until the process completes. Check the SystemOut.log on the Deployment Manager or server where the application is deployed for specific information about the EJB deployment process as it occurs. ADMA5016I: Installation of fcpbear started. ADMA5067I: Resource validation for application fcpbear completed successfully. ADMA5058I: Application and module versions are validated with versions of deployment targets. ADMA5005I: The application fcpbear is configured in the WebSphere Application Server repository. ADMA5053I: The library references for the installed optional package are created. ADMA5005I: The application fcpbear is configured in the WebSphere Application Server repository. ADMA50011: The application binaries are saved in D:\FCPBS\Installed-Software\Servers\WASProd\profiles\AppSrv02\wstemp\584259536\workspace\cells\OFSLAPCVR-7X67Node02Cell/applications/fcpbear.ear/fcpbear.ear ADMA5005I: The application fcpbear is configured in the WebSphere Application Server repository. SECJ0400I: Successfuly updated the application fcpbear with the appContextIDForSecurity information. ADMA5011I: The cleanup of the temp directory for application fcpbear is complete. ADMA5013I: Application fcpbear installed successfully Application fcpbear installed successfully. To start the application, first save changes to the master configuration Changes have been made to your local configuration. You can: <u>Save</u> directly to the master configuration. • <u>Review</u> changes before saving or discarding.

Once the application is successfully installed, click on the save directly to the master configuration. Select the fcpbear checkbox and click on start. The application will be deployed

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Open a browser and enter the following link :-> <u>http://localhost:<port\_no>/fcpbbank</u>/entryWM.jsp. You can login with the bootstrap users (wmadmin1,2,3,4 <-> Windows8!)