Application Installation Guide 12.5.0.0 Oracle FLEXCUBE Lending and Leasing [December] [2009] Oracle Part Number E51562-01

FINANCIAL SERVICES



Document Control

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1. Flexcube Lending and Leasing Application Deployment

Flexcube Lending and Leasing application deployment involves deployment of following application components:

- 1.1 Flexcube Lending and Leasing Web based Application
- 1.2 Business Intelligence Publisher Reports

Flexcube Lending and Leasing installer media contains the following structure:



The middleware installation items / scripts are placed under apps_install subdirectory under the installation root directory in the installation media.

1.1 Flexcube Lending and Leasing Web based Application

Flexcube Lending and Leasing application can be deployed in two ways:

- Command line installation
- GUI (using Enterprise Manager Console)

FLL application deployment using Command Line:

FLL Application can be deployed through command line using the installer script.

- 1. Following information is required during the installation.
 - Application server
 - i. Oracle Application server Home: (For example: /oracle/orapps/product/10.1.3.1/OracleAS_1)
 - ii. HTTP listening Port of OC4J
 - iii. ORMI port: (You can get to know by running command \$ORACLE_HOME/opmn/bin/opmnctl status – port)
 - iv. Application Server Administrative login: (usually oc4jadmin)
 - v. Application Server admin password
 - vi. Oracle Application Server type installation: like standalone, managed or cluster
 - vii. The OC4J Instance Name
 - Database server
 - i. Database Host Name: (server name or IP address)
 - ii. Database SID:
 - iii. Database Port:
 - iv. Database User:
 - Oracle BI Publisher info
 - i. BI Publisher Admin User Name: [default: administrator]



2. Copy and unzip the file from the apps_install subdirectory of root installer FLL.12.0.0_REL.zip from the media to Application Server Home directory (oracle/orapps/)

```
-rw-r--r-- 1 orapps dba 82621879 Jun 1 12:02 FLL.12.0.0_REL.zip
drwxr-xr-x 8 orapps dba 4096 Jun 1 14:24 FLL
```

[orapps@flldemo FLL]\$ Is -Itr

drwxr-xr-x 2 orapps dba 4096 Jun 1 12:23 core drwxr-xr-x 2 orapps dba 4096 Jun 1 12:23 bpel drwxr-xr-x 2 orapps dba 4096 Jun 1 12:23 webservice drwxr-xr-x 2 orapps dba 4096 Jun 1 12:23 rules drwxr-xr-x 3 orapps dba 4096 Jun 1 15:57 reports drwxr-xr-x 2 orapps dba 4096 Jun 1 16:06 install

3. Go to FLL/install directory and run install.sh on unix or install.bat for window system

```
orapps@flldemo install]$ Is -rlt

-rw-r--r-- 1 orapps dba 4265 Apr 27 19:40 ant-oracle.xml

-rw-r--r-- 1 orapps dba 224277 Apr 28 10:26 ant-contrib-1.0b2.jar

-rw-r--r-- 1 orapps dba 1232 Apr 28 11:16 ant-orabpel.xml

-rw-r--r-- 1 orapps dba 586 Apr 29 17:18 README.txt

-rw-r--r-- 1 orapps dba 2194 Apr 30 10:41 fll_constant.properties

-rw-r--r-- 1 orapps dba 322 Apr 30 11:18 install.bat

-rwxr-xr-x 1 orapps dba 322 Apr 30 12:06 install.sh

-rw-r--r-- 1 orapps dba 11189 May 6 10:11 ant-fllinstall.xml

-rw-r--r-- 1 orapps dba 20608 May 8 14:30 deploy.xml
```



Application deployment on Unix system is shown below.

\$./install.sh

*** Oracle Flexcube Lending and Leasing Installation README ***

PreRequisite

OracleAS 10gR3 installed and configured

ANT 1.65 and above

ANT_HOME environment variable is set to ANT home directory; typically on an Oracle AS installation

ANT comes bundled under e.g. \$ORACLE_HOME/ant location

BPEL Domain already created (applicable if BPEL is enabled)

Read and Write Access to BI Publisher Repository location on the target server (for File Base)

Read and Write Access to Rules Repository location on the target server (for File Base - applicable if BPEL is enabled)

Press any Key to continue...

Buildfile: ant-fllinstall.xml

user-input:

[echo] Installing Oracle Flexcube Lending and Leasing Application version 12.0.0.0

[input] New or Redeploying Oracle Flexcube Lending and Leasing application?

[input] (r,R,n,N)

Ν

[input] Define Global JNDI DB connection source for Oracle Flexcube Lending and Leasing application?

[input] - Global DB connection pool takes advantage of having single connection pool defined within a target OC4J instance to be used across various applications

[input] - Local DB connection pool defines the connection within the application deployed on a target OC4J instance

```
[input] (y,Y,n,N)
```

Ν

[input] Install Oracle Flexcube Lending and Leasing application with BPEL ?

[input] (y,Y,n,N)

Ν

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ORACLE

[input] OracleAS installed HOME Path: [default: /oracle/ora10g] /oracle/orapps/product/10.1.3.1/OracleAS_1

[input] Host on which the target OracleAS instance is running: (server name or IP address)

flldemo

[input] HTTP listening Port for the target OC4J instance:

[input] - stand alone mode default is 8888

[input] - managed mode default is 7777

7777

[input] Administration listening port for the target OC4J instance:

[input] This port reprensents:

[input] - the ORMI port if you are running a Stand Alone OC4J instance (default: 23791)

[input] - the OPMN port if you are running OracleAS in a managed mode (default: 6003)

[input] Note about the OPMN port:

[input] if you do not know what is the OPMN port of your OracleAS instance

[input] you can get if using the following command:

[input] \$ORACLE_HOME/opmn/bin/opmnctl status -port

6003

[input] Administrative login name for the target OracleAS instance: [default: oc4jadmin]

[input] Administrative password for the target OracleAS instance: admin123

[input] Standalone or Managed or Cluster Oracle Application Server type installation?

[input] (s,S,m,M,c,C)

М

[input] Specify the OC4J Instance Name: [default: oc4j_soa]

[input] Database Host Name: (server name or IP address)

flldemo

[input] Database SID: [default: \${env.ORACLE_SID}]

orcl

[input] Database Port: [default: 1521]

1530

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ORACLE

[input] Database User:

qfll120

[input] Database Password:

qfll120

[input] BI Publiser Admin User Name: [default: administrator]

[input] BI Publiser Admin User Password:

admin123

[input]	BI	Publisher	Repository	location:	[default:
/oracle/orapps	/product/10.1.	3.1/OracleAS_1/xmlp	o/XMLP/Reports]		

[input] BI Publisher Archive location: /oracle/orapps/product/10.1.3.1/OracleAS_1/xmlp/XMLP/archive]

[input] Oracle AS SSO Enabled ? [input] (y,Y,n,N)

Ν

[input] Application Name: [default: FLL120]

QFLL12

[input] Application Root Context: [default: FLL120]

QFLL12

[input] Oracle Flexcube Lending and Leasing Application Error and Debug Log Path: [default: /oracle/orapps/product/10.1.3.1/OracleAS_1/opmn/logs]

Application deployment screen

install-fll: [echo]> Setting the Oracle Flexcube Lending and Leasing global properties								
deploy-fll: [echo]> Configuring to deploy Oracle	Flexcube Le	ending and Leas	sing application					
deploy: install-datasource: [echo]> Installing local deployer:oc4j:opmn://flldemo:6003/oc4j_soa	JNDI	datasource	connection	pool	on			
install-managedsource: [echo]> Installing local deployer:oc4j:opmn://flldemo:6003/oc4j_soa	JNDI	managed	connection	pool	on			
common:								

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[default:

[echo] BuildName: Deployment							
[echo] BuildHome: /oracle/orapps/ear/FLL							
[echo] BuildFile: /oracle/orapps/ear/FLL/install/deploy.xml							
[echo] BuildJVM: 1.5							
[echo] OracleHome: /oracle/orapps/product/10.1.3.1/OracleAS_1 init.val:							
core-deploy-plan: [echo]> Updating the configurable properties file							
unzip-file: [echo]> Uncompress the file /oracle/orapps/ear/FLL/core/FLL120.ear to /oracle/orapps/ear/FLL/temp							
[unzip] Expanding: /oracle/orapps/ear/FLL/core/FLL120.ear into /oracle/orapps/ear/FLL/temp [copy] Copying 1 file to /oracle/orapps/ear/FLL/temp							
unzip-file: [echo]> Uncompress the file /oracle/orapps/ear/FLL/temp/FLL120.war to /oracle/orapps/ear/FLL/temp/war							
[unzip] Expanding: /oracle/orapps/ear/FLL/temp/FLL120.war into /oracle/orapps/ear/FLL/temp/war [copy] Copying 1 file to /oracle/orapps/ear/FLL/temp/war [mkdir] Created dir: /oracle/orapps/ear/FLL/temp/oracle/fll/faces/view/resources/cmn							
set-system-resource: [echo]> Set properties for /oracle/orapps/ear/FLL/temp/war/WEB- INF/classes/oracle/fll/faces/view/resources/cmn/FLLSystemResources.properties							
set-system-resource: [echo]> Set properties for /oracle/orapps/ear/FLL/temp/war/WEB-INF/lib/wf_client_config.xml edit-application-xml:							
[echo]> Edit the /oracle/orapps/ear/FLL/temp/META-INF/application.xml file [taskdef] Could not load definitions from resource com/collaxa/cube/ant/orabpel-antlib.xml. It could not be found.							
search-replace-file: [echo]> Search and Replace the /oracle/orapps/ear/FLL/temp/META-INF/application.xml file [taskdef] Could not load definitions from resource com/collaxa/cube/ant/orabpel-antlib.xml. It could not be found.							
search-replace-file: [echo]> Search and Replace the /oracle/orapps/ear/FLL/temp/META-INF/application.xml file							
jndi-loc:							
set-system-resource: [echo]> Set properties for /oracle/orapps/ear/FLL/temp/META-INF/data-sources.xml set-system-resource:							
[echo]> Set properties for /oracle/orapps/ear/FLL/temp/META-INF/orion-application.xml.file [delete] Deleting directory /oracle/orapps/ear/FLL/temp/war							
nent Classification (e.g. Oracle Financial Services Software Confidential - Restricted)							



[war] Updating war: /oracle/orapps/ear/FLL/temp/FLL120.war [ear] Updating ear: /oracle/orapps/ear/FLL/temp/FLL120.ear [ear] Warning: selected ear files include a META-INF/application.xml which will be ignored (please use appxml attribute to ear task) checkoc4javailable: [echo] -----> Checking to see if OC4J is available to deploy to Pinging flldemo:6003 [echo] [echo] If OC4J is not started, please start it now. skipdeploy: core-deploy: [echo] ----> Deploying the core QFLL12 Application deploy.ear: [echo] ----> Deploying the application module deployment (ear) file Target: deployer:oc4j:opmn://flldemo:6003/oc4j_soa [echo] Application: QFLL12 [echo] [oracle:deploy] Deploying application QFLL12. 09/06/01 14:23:30 Notification ==>Application Deployer for QFLL12 STARTS. Notification 09/06/01 14:23:30 ==>Copy the archive to /oracle/orapps/product/10.1.3.1/OracleAS_1/j2ee/oc4j_soa/applications/QFLL12.ear 09/06/01 14:23:31 Notification ==>Initialize /oracle/orapps/product/10.1.3.1/OracleAS_1/j2ee/oc4j_soa/applications/QFLL12.ear begins... 09/06/01 14:23:31 Notification ==>Unpacking QFLL12.ear 09/06/01 14:23:32 Notification ==>Done unpacking QFLL12.ear 09/06/01 14:23:32 Notification ==>Unpacking FLL120.war 09/06/01 14:23:40 Notification ==>Done unpacking FLL120.war ==>Initialize 09/06/01 14:23:40 Notification /oracle/orapps/product/10.1.3.1/OracleAS 1/j2ee/oc4j soa/applications/QFLL12.ear ends... 09/06/01 14:23:40 Notification ==>Starting application : QFLL12 09/06/01 14:23:40 Notification ==>Initializing ClassLoader(s) 09/06/01 14:23:40 Notification ==>Initializing EJB container 09/06/01 14:23:40 Notification ==>Loading connector(s) 09/06/01 14:23:42 Notification ==>Starting up resource adapters 09/06/01 14:23:43 Notification ==>Initializing EJB sessions 09/06/01 14:23:43 Notification ==>Committing ClassLoader(s) 09/06/01 14:23:43 Notification ==>Initialize FLL120 begins... 09/06/01 14:23:43 Notification ==>Initialize FLL120 ends... 09/06/01 14:23:43 Notification ==>Started application : QFLL12 09/06/01 14:23:44 Notification ==>Binding web application(s) to site default-web-site begins... 09/06/01 14:23:44 Notification ==>Binding FLL120 web-module for application QFLL12 to site defaultweb-site under context root QFLL12 09/06/01 14:23:55 Notification ==>Initializing Servlet: javax.faces.webapp.FacesServlet for web application FLL120 09/06/01 14:23:55 Notification ==>Initializing Servlet: oracle.webcache.adf.servlet.AFCStatsServlet for web application FLL120 09/06/01 14:23:55 Notification ==>Binding web application(s) to site default-web-site ends...



09/06/01 14:23:55 Notification ==>Application Deployer for QFLL12 COMPLETES. Operation time: 25592 msecs [oracle:deploy] Application deployer for QFLL12 COMPLETES. common: [echo] BuildName: Deployment [echo] BuildHome: /oracle/orapps/ear/FLL [echo] BuildFile: /oracle/orapps/ear/FLL/install/deploy.xml [echo] BuildJVM: 1.5 [echo] OracleHome: /oracle/orapps/product/10.1.3.1/OracleAS 1 bind-web-app: [echo] ----> Binding the web context for the application Target: deployer:oc4j:opmn://flldemo:6003/oc4j_soa [echo] [oracle:bindWebApp] Web application binding starting for default-web-site with web module FLL120 within application QFLL12 as QFLL12. [oracle:bindWebApp] Web application binding completed successfully. [delete] Deleting directory /oracle/orapps/ear/FLL/temp common: [echo] BuildName: Deployment [echo] BuildHome: /oracle/orapps/ear/FLL [echo] BuildFile: /oracle/orapps/ear/FLL/install/deploy.xml [echo] BuildJVM: 1.5 [echo] OracleHome: /oracle/orapps/product/10.1.3.1/OracleAS_1 ws-deploy-plan: checkoc4javailable: [echo] -----> Checking to see if OC4J is available to deploy to [echo] Pinging flldemo:6003 [echo] If OC4J is not started, please start it now. skipdeploy: ws-deploy: install-reports: [echo] ----> Install FLLReports Reports to /oracle/orapps/product/10.1.3.1/OracleAS_1/xmlp/XMLP/Reports location unzip-file: [echo] Uncompress the file /oracle/orapps/ear/FLL/reports/FLLReports.zip to ----> /oracle/orapps/ear/FLL/temp [unzip] Expanding: /oracle/orapps/ear/FLL/reports/FLLReports.zip into /oracle/orapps/ear/FLL/temp [copy] Copying 1 file to /oracle/orapps/ear/FLL/temp [copy] Copying 269 files to /oracle/orapps/product/10.1.3.1/OracleAS_1/xmlp/XMLP/Reports [delete] Deleting directory /oracle/orapps/ear/FLL/temp install-rules: bpel-msg-jar: bpel-orig-jar: [echo] ---->



[echo] -----> Deployed the FLL Enterprise Application [echo] -----> Oracle Flexcube Lending and Leasing Installation complete [echo] Kindly ensure that the Role FLL_USER and User SSC are defined within {OracleAS_Home}/j2ee/{oc4j_instance}/config/system-jazn-data.xml file (for file based) or within OID (SSO based) before accessing the Oracle Flexcube Lending and Leasing application

BUILD SUCCESSFUL

Total time: 8 minutes 16 seconds

- 4. Login to Application Server Enterprise Manager console as admin user.
- 5. Navigate to OC4J_SOA; -> Applications; Select the application; -> Security Provider; -> Realms -> Roles. Verify that FLL_USER role exists. If not, create the role (Appendix 1).

Similarly, create the user and assign the role to the user (Appendix 1).

6. Login to application http://{hostname}:port/ContextRootPath/faces/pages/lending/FLSWelcome.jspx

FLL application deployment using Enterprise Manager console:

The UI application installer for Flexcube Lending Leasing (Origination/Servicing/Collection modules) is provided as an EAR file (enterprise archive/application archive) under the



Install_root/apps_install/FLL/core. This EAR file is to be deployed under OC4J_SOA J2EE container in the application server using Oracle Enterprise Manager Administration console/control.

Follow the steps below to deploy the application

- 1. Copy FLL120.ear file from the media
- 2. Login to Enterprise Manager Console.

http://<hostname>:<portno>/em

Login to Oracle Application S	erver Control - Microsoft Internet Explo	er						- 8 ×
File Edit View Favorites T	ools Help		4					R
🕞 Back 🔹 🕑 👻 📓	🎧 🔎 Search 🤺 Favorites 🥳	🛛 🖉 • 🍣 🔳 • 🛄 🕷	1 3					
Address 2 http://dbkdemo.i-flex.o	com:7777/em/console/las/cluster/topology						🗾 🔁 😡	Links »
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ORACLE Enterprise M Application Server Control	anager 10 <i>g</i>							-
Appreciation Server Contro								
Login								
★ User Name	oc4jadmin							
* Password								
	Login							
Copyright @ 1996, 2007, Oracle. Al	rights reserved.							
Oracle, JD Edwards, PeopleSoft, an Unauthorized access is strictly pro	nd Siebel are registered trademarks of Oracle hibited.	Corporation and/or its affiliates. Othe	r names may be trademarks	of their respective owners.				
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Figure1 - Enterprise Manager Login Console

3. Navigate to application deployment screen. (OC4J_SOA; Applications ;) as in figure 2.



🗿 Oracle Enterprise Manager (oc4jadmin) - Cluster Topology - Micro	isoft Internet Ex	plorer							_ 8 >
File Edit View Favorites Tools Help									- 1
🌏 Back 🔹 💮 – 🖹 💈 🏠 🔎 Search Favorites 🍕	છ 🔗 - 🍣	· 🗷 • 🧾 🏭							
Address 🛃 http://dbkdemo.i-flex.com:7777/em/console/ias/cluster/topology								💌 🔁 Go	Links ?
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ORACLE Enterprise Manager 10g Application Server Control Cluster Topology				-			Setup 1	ogs <u>Help</u> Logo	
Querulew				Page Refreshed A	or 24, 2009 3:	03:40 PM I	ST • View Data M	anual Refresh	-
Hosts 1 Application Servers 1 OC4J Instances 2 HTTP Server Instances 1									
Members									
View By Application Servers 💌									
(Start) (Stop) (Restart)									
Select All Select None Expand All Collapse All									
		-			CPU	Memory			
Select Name	Status	Type	Category	Host	(%)	(MB)			
DRI/DEMO. OCAL divideme i flex com									
		Application Server		dbkdemo					
	Û	OC4J			4.51	168.34			
Inter_server	Û	Oracle HTTP Server			1.11	179.86			
DCALSON (JVMS: 1)	Û	OC4J			1.87	285.45			
TTP If a parent topology member is selected all contained n Groups A group is a collection of OC4J instances. Certain common m (Start) (Ston) (Delete) (Create)	nembers are im anagement tasi	plicitly selected. ks can be performed simu	Itaneously on all OC4.	J instances in a group.	For more info	ormation, se	ee <u>About Groups</u>		
Select Name	loc	4.1 Instance	Status Applicatio	n Server					
default group	004	i soa		OC4J.dbkdemo.i-flex	.com	1			
- scored Street	hor	ne		OC4J.dbkdemo.i-flex	.com				
Administration									
<u>Cluster MBean Browser</u> Routing ID Configuration	:	Java SSO Configuration Topology Network Config	uration	•	Runtime Por	<u>ts</u>			
Copyright © 1996, 2007, Oracle . All rights reserved. Create, 40 Edwards, PeopleSoft, and Sebel are registered Indemarks of Orac About Oracle Enterprise Manager. 10a Audication Server Control	cle Corporation and	<u>Setup</u> Logs Nor its affiliates. Other names n	<u>Help</u> <u>Logout</u> nay be trademarks of their	respective owners.					
Done		,						S Local intranet	
🛃 Start 🔰 🧑 🞯 🏕 👋 📓 4 Microsoft Office Co 🔻 💽 In	box - Microsoft Ou	tlook 🤇 🤞 8 Reminders	🔄 dump	FLL_I	nstallation_Guide	🌾 Or	acle Enterprise Ma.	. « @@ø	2:49 PM
Figure 2 - OC4J container									

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4. Click on the OC4J_SOA J2EE container and select Application tab (Figure 3).

😑 Applications Actions 🌄 🤝 🚭 🎯	_						2 💓 Thu May 22, 12:15	
D Oracle Ent	erprise	Manager (oc4jadmi	in) - OC4J: o	c4j_fls10 - M	lozilla Firefo	x		_ & X
<u>File Edit View Go Bookmarks Tools H</u> elp								0 ⁰ 00 0000
💠 • 🛶 • 🥵 😰 😭 🗈 http://localhost:7777	/em/cor	nsole/ias/oc4j/applica	ations			~	🙆 Go 💽	
OSS 🗁 Support								_
Application Server Control Setup Loge Heb Logout								
Cluster Topology > Application Server: 10_1_3.localhost >								
OC4J: oc4j_fls10								
					Pag	e Refreshed	May 22, 2008 12:19:32 PM	CDT
Home Applications Web Services Pe	rformand	e <u>Administration</u>	1					
This same shows the JOEE configurations and evaluations		ata (E ID Mashilan)		D	6 -ll	de al ala al acces		
This page shows the JZEE applications and application c	ompone	ints (EJB Modules, 1	WAR MOQUIE	, Nesource i	Adapter Mod	nes) deploye	d to this 0040 instance.	
View Applications								
(Start) (Stop) (Restart) (Undeploy) (Redeploy) (Deploy)						1
Select All Select None Expand All Collapse All								
				Request				
				Processing		Application		
Delet News	Distance	Direct Times	Active	Time	Active EJB	Defined		
	Status	s start Time	Requests	(seconds)	Methods	MBeans		
ascontrol						E		
	4					nd ^{g=1}		
default	Û	May 20, 2008 11:23:01 AM CDT	0	0.00	0			
Middleware Services								
TIP If you stop a parent application (such as the defau	It applica	ation), then Enterpris	e Manager a	utomatically	stops any chi	Id application	is that depend upon the pare	ent
application. Similarly, if you start a child application, Enterprise Manager automatically starts the required parent application.								
Home Applications Web Services Performance Administration								
			-					

Figure 3 – Application deployment screen



5. Click on the "Deploy" button to start the deployment process in this container.

Cracle Enterprise Manager (ocs)admin) - Deploy: Select Archive - Microsoft Internet Explorer Construction - Textual Construction - Microsoft Internet Explorer	_ 8' X
	<u>~~</u>
Seak · O · K B A / Search X Favorites 🚱 😒 · 🥪 M · 🗖 💫	
Address 🔮 http://dbidemo.i-Piex.com:7777/em/console/ias/j2ce/deploy/deploy/SelectAchive	💌 🄁 Go 🛛 Links »
Coogle C + S Go + S Bookmarks + P Popups olay Check + Autorial Send to + S	Settings 🗸
	<u>*</u>
Application Server Control	Setup Loas Help Loaout
Select Archive Application Attributes Deployment Settings	
Deploy: Select Archive	
	(Cancel) Step 1 of 3 Next
Archive	
The following types of archives can be deputyed, JZCE application (CAR mes), were mounted with the second of the s	
Accure is present on occar nos. Oproad the accure to the server where Application Server Controls to thinking.	
C Archive is already present on the server where Application Server Control is running	
Location on Server	
The location on server must be the absolute path or the relative path from iZee/home	
Deployment Plan	
The deployment plan is an XML file that contains the deployment settings for an application. If you do not have a deployment plan, one will be created automatically during the deplo	yment process. Later in the
deployment process, you can optionally edit the deployment plan and save it for a future deployment of this application.	
 Automatically create a new deployment plan. The deployment plan estimas will be based on OCAI defaults and information contained in the archive 	
C Deployment plan is present on local host. Upload the deployment plan to the server where Application Server Control is running.	
Plan Location Browse	
C Deployment plan is already present on server where Application Server Control is running.	
Location on Server	
The location on server must be the absolute path or the relative path from (zee/nome	
	(Cancel) Step 1 of 3 Next
Convicient @ 1996. 2006. Oracle. All rights reserved.	
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Figure 4 – Deployment step 1

- 6. Enter the "archive location": (Enter the full path & file name of FLL application / EAR file).
- 7. In Deployment plan section, select "Automatically create a new deployment plan".
- 8. Then click on Next button, this could takes few minutes to update the file.

Note: In some cases, on sharing following details of deployment servers FLL120_deploy_plan.dat can be created and this can be used passed during deployment. This will avoid updating any of the properties files after application deployment.

Middleware details: URL, hostname, port number, oc4j instance admin user and password, Application server home.

DB details like hostname, schema name, port number

BI publisher details : hostname, URL, admin user ID & password

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Figure 5 - Deployment step 2

- 9. Enter the unique name of an application in the "Application Name" field as it would be used in the application URL and you may change "context root" name if required.
- 10. Click **next** to continue.
- 11. Click on "Select Security provider" to update security type (Figure 6, 7)

For File based security proceed with the following steps.



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Deployment Tasks										
The table below provides a set of common	deployment tasks y	ou might want to perfo	rm for this applicati	on. Only those tas	ks that apply to f	the current applicat	tion are enabled.			
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Select Security Provider 🔶	Ø	A security provider a	cts as the source fo	r available users a	ind groups when	mapping security r	oles.			
Map Security Roles	Ø	Map any security role you selected for this	es exposed by your application.	application to exi	sting users and g	roups. The list of u	isers and groups is	obtained from the	security pr	ovider
Configure EJBs	Ø	Configure the Enterpr	rise JavaBeans in y	our application.						
Configure Clustering	Ø	Configure clustering	of your application.							
Configure Class Loading	Ø	Manipulate the class	path of your applica	tion.						
Advanced Deployment Plan Editing Click Edit Deployment Plan to set more a	a dvanced deployment	options				Edit Depl	ovment Plan)			
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Save Deployment Plan After you make changes, you can save th saved deployment plan to redeploy this ap	e deployment plan to plication later.	your local disk. You o	can then use the			Save Depl	loyment Plan)			
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Figure 6 - Deployme	nt sten 3									

Figure 6 – Deployment step 3



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If your EAR file includes a JAZN data file, optionally configure your application to use it. Otherwise, choose the default file-based security provider, system	n-jazn-data.xml.
C Use the OC4J instance default file-based security provider:	
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🕫 Use an application specific file-based security provider	
XML File Location /jazn-data.xml	
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- 12. Click **OK**.
- 13. Click on "Deploy" button to start the deployment.



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Figure 8 – Deployment confirmation

Once the deployment is successfully completed it should show the success message and the deployment operation steps on the screen (Figure 8). After deployment, return to the application page of the container, the deployed application will be visible in that page (Figure 9).



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Figure 9 – Deployed Application

Create connection pool for FLL application

1. Select the application that was deployed.



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- 2. Navigate to the "Administration" page for the J2EE container.
- 3. Select JDBC Resources.

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V Security						
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4. Create the connection pool for the application by clicking on the "**Create**" tab.

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- 5. Select the application and connection pool type as "new connection pool".
- 6. Enter the following information for the connection pool:

Name: JDBC URL: Credentials:

- 7. Click finish.
- 8. Test connections from the JDBC Resource page.



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Create Data source for FLL application

Follow the steps to create datasource for the application:

- 1. Select the application.
- 2. Data source type as "managed data source".



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A managed data source is one where OC4J provides critical system infrastructure such as global transaction management, connection	pooling, statement caching and error handling.
O Native Data Source	
A native data source is one that implements the java.sql.DataSource interface and does not make use of OC4J's connection pooling or sparticipate in local transactions.	statement caching capabilities. A native data source can only
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- 4. Click on **finish** tab.
- 5. Test the connection from the JDBC Resources page.



Update properties files

Cases where FLL120 deploy plan.dat file would not be provided along with FLL ear, in such cases there is a need to update FLLSystemResources.properties file located under \$ORACLE HOME/ <context root>/<application name>/WEB-INF/classes/oracle/fll/faces/view/resources/cmn/FLLSystemResources.properties Sample FLLSystemResources.properties file. # path FlsLog.Debug.Path=/oracle/orapps/product/10.1.3.1/OracleAS/opmn/logs/FLLError.log FlsLog.Error.Path=/oracle/orapps/product/10.1.3.1/OracleAS/opmn/logs/FLLDebug.log FLL.SSO.Logout=true # Server Properties FLSSetup.Server.Path=http://andes.i-flex.com:7788/FLLSetup1151/faces FLSDeployed.Server.Path=http://andes.i-flex.com:7788 FLSLogout.Server.Path=http://andes.i-flex.com:7788/FLL120/faces/pages/lending/FLSWelcome.jspx FLL.UI.Version=FLL.12.0.0_178_BLD.04122009.1412 #XMLP FLS.XMLP.WsdlLocation=http://andes.i-flex.com:7788/xmlpserver/services/PublicReportService ConnectionURL = jdbc:oracle:thin:@andes.i-flex.com:1521:devj2ee DBUserName = dflnew DBPassword = dfllnew FLS.XMLP.Arg1=-I FLS.XMLP.UserName=administrator FLS.XMLP.Password=admin123 FLS.XMLP.reportPackage=/oracle/fll/xmlp/ FLS.XMLP.reportFormat=pdf FAX =/ippfax PRINTER = /ipp ARCHIVE_PATH =/oracle/orapps/product/10.1.3.1/OracleAS/xmlp/XMLP/archive **#BPEL Work Flow Parameters** Context.PROVIDER_URL=opmn:ormi://andes.i-flex.com:7794:oc4j_soa/orabpel Context.INITIAL_CONTEXT_FACTORY=com.evermind.server.rmi.RMIInitialContextFactory Context.SECURITY_PRINCIPAL=oc4jadmin Context.SECURITY CREDENTIALS=admin123 dedicated.connection=true Context.WORKFLOW_REALM_NAME=jazn.com Context.DOMAIN_NAME=FLL1151 Context.BPEL_SERVICE_NAME=ApplicationOriginationService Context.BPEL_SERVICE_VERSION_VALUE=1.0 Context.BPEL_SERVICE_OPERATION_TYPE=initiate Context.BPEL_SYNC_SERVICE_OPERATION_TYPE=process Context.BPEL_LOCATOR_NAME=bpel FII.BPEL.Process.Name = FLL_BPEL_PROCESS **#RULE AUTHOR** RuleRepositoryLocation=/oracle/orapps/product/10.1.3.1/OracleAS/rules/fileRepositories/OriginationRuleRepository RuleDictionary=default RuleDictionaryVersion=INITIAL

Restart the Flexcube Lending and Leasing Application.



<u>Updating BPEL properties (Required only when FLL is integrated with BPEL components)</u>

Update wf_client_config.xml file only. An example as below.

\$OracleAS 1/j2ee/oc4j soa/applications/ FLL120/FLL120/WEB-INF/lib/wf client config.xml file

<servicesclientconfigurations xmlns="http://xmlns.oracle.com/bpel/services/client"></servicesclientconfigurations>
<ejb></ejb>
serverURL ormi://TAURUS.i-flex.com/hw_services for stand alone
<pre><serverurl>opmn:ormi://dbkdemo:7777:6003:oc4j_soa/hw_services</serverurl> <!-- for opmn managed instance--></pre>
<user>oc4jadmin</user>
<pre><pre><pre>cpassword>admin123</pre>/password></pre></pre>
<initialcontextfactory>oracle.j2ee.rmi.RMIInitialContextFactory</initialcontextfactory>
<identityservice></identityservice>
<soapendpoint>http://dbkdemo:7777/integration/services/IdentityService/identity</soapendpoint>
<identifyconfigservice></identifyconfigservice>
<pre><soapendpoint>http://dbkdemo.7777/integration/services/IdentityService/configuration</soapendpoint></pre>
<pre>csoapEndPointshttp://dbkdemo.7777/integration/services/TaskService/TaskServicePort</pre>
<pre>constructedualded=fuller</pre>
<a href="content-conte</td>
<soapenide oint="">nitp://dbkdemo./////integration/services/raskQueryService/raskQueryServiceservices/raskQueryServices/raskQueryServices/raskQueryServices/raskQueryServices/raskQueryServices/raskQueryServices/raskQueryServices/raskQueryServices/raskQueryServices/raskQueryServices/raskQueryServices/raskQueryServices/raskQueryS</soapenide>

<soapendroint>nitp://dbddefno./////integration/setvices/oservice/oservice/oservice/oservice/soapendroint></soapendroint>
<runtimecontigservice></runtimecontigservice>
<soapendpoint>http://dbkdemo://///integration/services/RuntimeContigService/RuntimeContigService</soapendpoint>
specifies the mapping for portal realm to is_config realm
<pre><pre>cportal></pre></pre>
<realmmapping>jazn.com</realmmapping>

Login to Flexcube Lending and Leasing applications

Login to FLL application, open a browser and enter an application URL:

http://{hostname}:port/ContextRootPath/faces/pages/lending/FLSWelcome.jspx



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Flexcube Lending and Leasing Application Login screen.

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Navigate to "Setup" tab and update system parameters as required.



2.1 Reports on Business Intelligence Publisher

This section discusses the deployment of FLL reports on BI publisher including the integration of BI publisher with FLL to run the reports. Please see Appendix 2 for manual installation / configuration of Oracle BI publisher software on J2EE server.

Integrate BI publisher with FLL application:

Flexcube Lending and Leasing application contains a configuration file named FLLSystemResources.properties. This file is located under /WEB-INF/classes/ subdirectory in the deployment directory of the FLL12.0.0 application. This file needs to be edited in order to include the BI publisher details. Following are the parameters and example values to be entered in the configuration file FLLSystemResources.properties.

FLL.XMLP.WsdlLocation=http://<http_hostname>:<http_port>/xmlpserver/services/BIPWebServiceFLL. XMLP.Arg1=-I FLL.XMLP.UserName=<userid> FLL.XMLP.Password=<password> FLL.XMLP.reportPackage=<relative_path> FLL.XMLP.reportFormat=pdf

In the above example

<http_host> and <http_port> are the hostname and port where BI publisher has been installed / configured as a web service.

<userid> and <password> represent the credentials for BI publisher user having access to the BI publisher report repository where the reports will be deployed.

<relative_path> represents the repository path with respect to the J2EE container root directory in which BI publisher has been installed as a web service.

Deploying FLL Reports on BI Publisher

Deploying the reports in BI publisher is same as uploading the reports in the BI publisher repository. Following is a screen shot of BI publisher console that shows a repository. Login to the BI Publisher console to deploy the reports. <u>http://<hostname>:portno/xmlpserver</u>. Click on the "Upload a Report" link on the left panel to open a dialog box for entering the report name with full path. The reports are provided under the fll/reports subdirectory under apps_install directory in the installation media.





Once all reports are deployed on BI publisher, database configuration should be done. Go to the "Admin" tab in the BI publisher console and click the link "JDBC Connection". It will show the BI publisher console page as follows.





Click on the "**Data Source**" link and it will open a page for entering the details of JDBC connection parameters. Enter the details as applicable.



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	Welcome, administrator Preferences Sign Out Help
Reports Schedules Admin	
Admin > JDBC > Update Data Source: dfis115	
	Cancel Apply
General	
Data Source Name	dfis115
* Connection String	jdbc:oracle:thin:@10.81.50.241:1521:devj2ee
* Username	dfis115
Password	*****
* Database Driver Class	oracle.jdbc.driver.OracleDriver (Evannele: packetthriddise: OracleDriver)
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Click on the button "**Test Connection**", after the details are entered, to check the connectivity with the database and schema containing FLL database objects.

Once the database connection has been established successfully it is required to select the data source for each of the reports deployed for FLL. Select the report for the repository console and navigate to report properties. It will show a drop down for selection of data source for the report. Select the named JDBC connection as configured previously and save changes.





The data source for all reports should be configured this way.

2. Appendix 1

2.1 Create Role

- 1. Select the application that was deployed.
- 2. Navigate to the "Administration" page for the J2EE container.
- 3. Click on "Select Security provider"



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- 4. Click on "Realms".
- 5. Click on "Roles" -> Create.



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6. Check the "Grant RMI Login Permission" and click Ok.

2.2 Create User

- 1. Select the application that was deployed.
- 2. Navigate to the "Administration" page for the J2EE container.
- 3. Click on "Select Security provider" -- > Realms - \rightarrow User -- \rightarrow Create.
- 4. Enter Username, password and confirm the password.
- 5. Assign the FLL_USER Role and / or other required roles.
- 6. Click **OK** to complete.



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3. Appendix 2 Installing Manually into a J2EE Application Server

Introduction

The BI Publisher install media contains:

- BI Publisher server application
- BI Publisher runtime libraries
- BI Publisher fonts
- BI Publisher desktop tools
- Documentation: User's Guide, Javadocs, demos, and samples



Individual components are located as follows:

Directory	Component
manual\fonts	Font filess
manual\generic	xmlpserver.war (for non-oc4j application servers) xmlpserver.ear (for non-oc4j application servers)
manual\oc4j	xmlpserver.ear (for oc4j)
manual\XMLP	XMLP repository
manual\XMLP\DemoFiles	Data source for demo reports.
manual\XMLP\Tools	Template Builder for Word Add-in

3.1 Installation Process Overview

The server application allows you to create, manage and schedule reports. You must perform the following steps as described in this document to deploy Oracle BI Publisher manually:

- 1. Deploy BI Publisher on the application server.
- 2. Configure the BI Publisher repository and install fonts.
- 3. Perform postinstallation tasks:

Create the BI Publisher scheduler schema on the database server (required to send and schedule reports).

Set up the BI Publisher Demo Reports

3.2 Oracle AS 10.1.3 and OC4J 10.1.3 Deployment

Depending on how you have installed Oracle Application Server or OC4J, there are several methods you can use to deploy BI Publisher. The following steps use the admin_client.jar file to deploy BI Publisher on Oracle AS 10.1.3 or OC4J 10.1.3. Please refer to the *Oracle Containers for J2EE Deployment Guide* to see which deployment method is best for your installation.

1. Deploy the xmlpserver.ear to your OC4J instance.

Example:

C:\SOAJ2EE\j2ee\home> C:\SOAJ2EE\jdk\jre\bin\java -jar admin_client.jar deployer:oc4j:opmn://myserver.company.com/home oc4jadmin oc4jadmin -deploy -file C:\Temp\BIPublisher10132\Disk1\manual\oc4j\xmlpserver.ear -deploymentName xmlpserver - bindAllWebApps

2. Launch the BI Publisher application.



Open your browser to http://hostname:port/xmlpserver

For example:

http://localhost:8888/xmlpserver

3. If you see the login page, proceed to Configuring the BI Publisher Repository and Installing Fonts.

3.3 Configuring the BI Publisher Repository and Installing Fonts

After deploying BI Publisher in your application server, you must set up the BI Publisher repository and install the font files.

To set up the repository, copy the xmlp repository directory to a location on your server, then edit the configuration file to point to the saved location as follows:

- 1. Copy the XMLP repository directory from \manual on your installation media to your server.
- 2. Open the xmlp-server-config.xml file located in the

<application installation>/WEB-INF/ directory, where your application server unpacked the war or ear file.

Example:

In an AS/OC4J 10.1.3 deployment, the location is <ORACLE_HOME>/j2ee/home/applications/xmlpserver/xmlpserver/WEB-INF/xmlp-serverconfig.xml

The file contains the following:

```
<?xml version="1.0" encoding="UTF-8"?>
<xmlpConfig xmlns="http://xmlns.oracle.com/oxp/xmlp">
<resource>
<file path="%s_Reports_Path%"/>
</resource>
</xmlpConfig>
```

3. Replace %s_Reports_Path% with file path to the location where you copied the XMLP repository directory on your server.

For example, if you copied the repository directory to/home/repository/XMLP, update the xmlp-server-config.xml file as follows:

```
<?xml version="1.0" encoding="UTF-8"?>
<xmlpConfig xmlns="http://xmlns.oracle.com/oxp/xmlp">
<resource>
<file path="/home/repository/XMLP"/>
</resource>
</xmlpConfig>
```

Save xmlp-server-config.xml after updating.



4. Copy the font files from the manual\fonts on the install media to the fonts directory of the Java Runtime Environment used by your J2EE container/application server.

Example for Oracle Application Server or OC4J:

<ORACLE_HOME>...\jdk\jre\lib\fonts

- 5. Restart your application server.
- 6. Launch BI Publisher:

Open your browser to http://hostname:port/xmlpserver

For example:

http://localhost:8888/xmlpserver

7. Log in with user name "Administrator" and password "Administrator".

Important: Please change the Administrator password on the Account tab under Preferences.





Flexcube Lending and Leasing June 2009 1.0

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