Process Flow Deployment Oracle Banking ELCM

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## 1. Introduction

#### 1.1 Background

This document provides detailed description on deploying FCUBS BPEL process flows onto a weblogic server configured with soa suite components .This document will cover different approaches for deploying a process.The audience for this document will be the deployment teams of FCUBS BPEL process flows

### 1.2 Organization of the Document

The first chapter of this document gives an introduction with brief background and organization of the document. Subsequent chapters of this document will give the details of the various deployment options.

### 1.3 Acronyms and Abbreviations

Acronyms	Description
BPEL	BPEL Process Flow
ВАМ	Business Activity Monitoring
SOA Application	With Fusion middleware 12c BPEL process flows becomes part of a SOA Composite application.



## 2. Oracle JDeveloper IDE

#### 2.1 Introduction

Oracle JDeveloper is the IDE used for BPEL process design and development. It's recommended that the version of JDeveloper used should be in sync with the Oracle SOA suite that is used for BPEL runtime. E.g. (Oracle SOA suite – 12.2.1+ Oracle JDeveloper 12.2.1). Though different versions of Oracle SOA suite and JDeveloper might be compatible it is recommended to go through the releases notes and documentation prior to their usage.

#### 2.2 Obtaining JDeveloper IDE

Oracle JDeveloper IDE can be downloaded from oracle website, the hyperlink provided might have been updated. Please check appropriate location prior to download and refer installation and release notes documentation of Oracle JDeveloper for Installation instructions.

http://www.oracle.com/technetwork/middleware/bpm/downloads/index.html

https://edelivery.oracle.com/osdc/faces/SearchSoftware

Run fmw\_12.2.1.2.0\_bpm\_quickstart.jar to install jdeveloper with bpm enabled.



# 3. Creating Application server connection

#### 3.1 Introduction

Oracle JDeveloper supports deployment of BPEL process flows to WebLogic application servers via JDeveloper application server connection.

#### 3.2 Application Sever Connection

After JDeveloper has been updated with SOA extension, The IDE can be launched from 'Programs' menu or installation location.

Search 'Oracle JDeveloper Studio' in All Programs to launch JDeveloper

Select the role as Studio Developer

1	O Select Role	
	Select the role that matches your requirements. You can also change roles using the Roles page in preferences.	
	Role:	
	Studio Developer (All Features)     Includes all features.	
	Customization Developer Configures the product for customizing metadata.	
	Database Developer     Includes only features for core database development.	8
	Java Developer Includes only features for core Java development.	
	Java EE Developer Includes only features for core Java EE development.	-
	Always prompt for role selection on startup	
	OK Cancel	

- After JDeveloper is launched
- Click on → windows → Application Servers Navigator



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- To create a new WebLogic server connection
- Right click 'Application Servers'
- Click on  $\rightarrow$  New Application Server

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- The "Create Application Server Connection" wizard is launched as shown below.
- Select the Radio button "Standalone Server"
- Click "Next" to proceed with the configuration



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- Provide a "Connection Name" to identify the server connection.
- Provide the "Connection Type " to identify the server type.
- Select "WebLogic server <version>"
- Click "Next" to proceed with the configuration



O Create Application Serve	er Connection - Step 2 of 3	X
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- Provide username / password to connect to the server
- The same username / password that was used while configuring the server is used.
- Click "Next" to proceed with the configuration

Create Application Serv	ver Connection - Step 3 of 6
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- Finish	
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- Provide the WebLogic server hostname and the port number of the Admin server.
- Provide the domain name under which the server has been configured.
- Click "Next" to proceed with the configuration



O Create Application Serve	er Connection - Step 4 of 6
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- Click on the 'Test Connection' to ensure the configuration is done correctly.
- All the tests should go thru and indicate "success" as shown below that will indicate a correct configuration
- Click "Finish" to proceed and complete the configuration



# 4. Loading FCUBS Process flows in Oracle JDeveloper

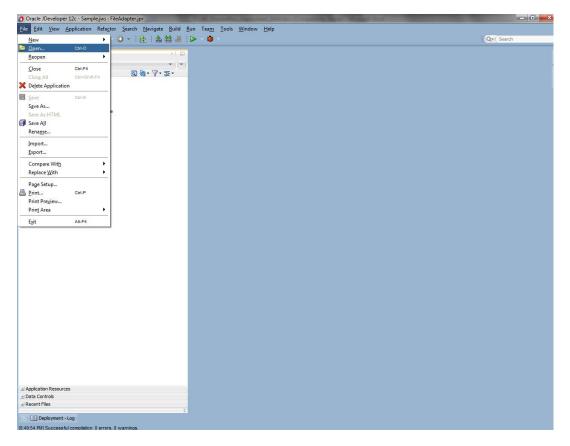
#### 4.1 Introduction

The FCUBS BPEL process flows that are to be deployed needs to be obtained from the release area and unzipped into a folder location.

#### 4.2 Loading the Process

After JDeveloper IDE is launched from 'Programs' menu or installation location.

• Click on  $\rightarrow$  File  $\rightarrow$  Open

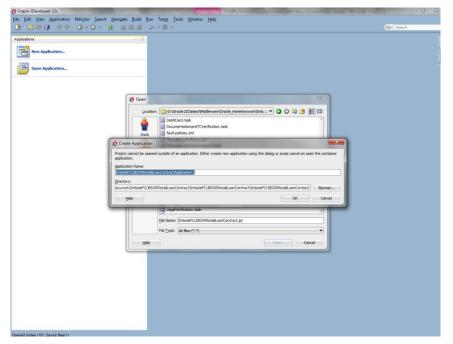


- Navigate to the folder where process flow is deployed
- Locate and select the ".jpr" file under the folder <process\_name>
- Click 'Open' to load the process flow in JDeveloper



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- If this is the first Process flow that is being loaded JDeveloper will prompt for an Application Name and Location where the application file will be stored
- Provide an application name and folder path for the same.
- Click in "Ok" to proceed with loading of the process flow.



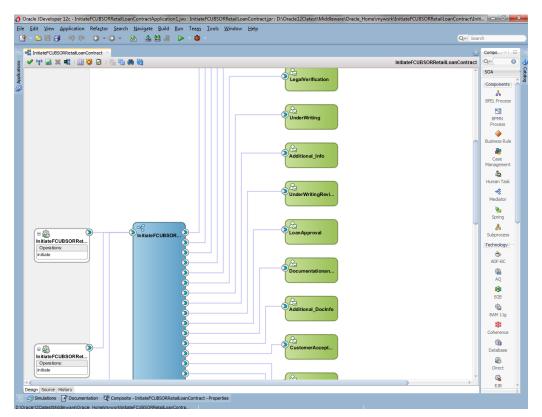
• The process flow is loaded into JDeveloper and is displayed as given below



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• Expand the project loaded and click on the composite.xml

• Clicking on the "composite.xml" under "SOA" in Design mode will display the process flow as illustrated in the screen shot.



• All the required process flow can be loaded in the similar fashion from File Menu into the same application.



🕐 Oracle JDeveloper 12c - InitiateFCUBSORRetailLoanContractApplication1.jws : InitiateFCUBSORRetailLoanContract.jpr	
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• After all the necessary process flows are loaded, all process flows will be displayed in the "Application Navigator" menu as illustrated in the screen shot.

In case of Dependent Process Flows like InitiateFCUBSORRetailLoanContract, having other Process Flows as services and subprocesses the composite.xml file has to be modified with the runtime wsdl location of the subprocess (like BIPUtility).

To obtain the runtime wsdl, em console has to be launched and input the user name and password for the SOA Domain.

The deployed process can be verified by checking if the process is showing up in the SOA Suite enterprise manager console.

Login to <a href="http://chostname>:cport>/em">http://chostname>:cport>/em</a>

This opens the application as in the below screenshot. Now, click on Target Navigation (highlighted in the below screenshot)



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Upon opening the Target Navigation, user is presented with the below set of screens in sequence before getting the WSDL

Click on SOA

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Composite	SOA Folder	Status	Mode	Deployed 🤊 🔺 🔻	
OpenCurrentAccount [3:0]	default	+	Active	Oct 13, 2017 12:05:2	
ORGatewayService [1.8]	default	+	Active	Sep 27, 2017 9:07:04	
ORGatewayService [1.7]	default	+	Retired	Sep 27, 2017 3:23:30	
InitiateRetailLoanContractFCUBSORService [2.0]	default	+	Active	Sep 6, 2017 4:24:39 PM	
OpenSavingsAccount [3.0]	default	+	Active	Aug 30, 2017 4:50:46	
OpenCurrentAccount [2:0]	default	+	Retired	Aug 9, 2017 1:16:48 PM	
ORGatewayService [1.4]	default	+	Retired	Jul 7, 2017 6:28:24 PM	
InitiateFCUBSORRetailLoanContract[1:0]	default	+	Active	Jun 16, 2017 4:12:47	
CreateCorporateCustomer [1.0]	default	+	Active	Jun 13, 2017 2:27:59	
TermDepositForeClosure [1.0]	default	+	Retired	Jun 13, 2017 2:24:40	
OpenRetailTermDeposit [1.0]	default	+	Active	Jun 13, 2017 2:18:07	
InitiateCorpMusharakaContract [9.0]	default	+	Active	May 18, 2017 2:50:23	
CRPProcess [1.0]	default	+	Active	May 12, 2017 10:26:3	
COLLATProcess [1.0]	default	<b>+</b>	Active	May 12, 2017 10:23:3	
BPELCRPProcess [3.0]	default	1	Active	May 12, 2017 10:19:0	
BPELCRPProcess [2,0]	default	+	Active	May 11, 2017 7:15:45	
BPELCOLLATProcess [2:0]	default	+	Active	May 11, 2017 7:07:07	
BPELCR/Process [1,0]	default	1	Active	May 11, 2017 6:59:01	
BPELCOLLATProcess [1.0]	default	+	Active	May 11, 2017 6:34:57	
InitiateRetailMurabahContract [8, 0]	default	1	Active	Apr 26, 2017 4:01:33	
InitiateRetailijarahaContract [3.0]	default	+	Active	Apr 25, 2017 12:07:1	
InitiateCorplstianaContract [1.0]	default	+	Active	Apr 18, 2017 11:06:17	

The Runtime wsdl is obtained from the em console as shown in the screen shot.

• In the em console, click the process for which runtime wsdl is required and click on Test.



ive Retire Shut Down Test Settings 🔻 🚱				& Related Links
hboard Composite Definition Flow Insta Test Service rests Policies				
Components				
lame				Component Type
CDMediatorProcess				BPEL
CreditApproval				Human Workflow
ExternalCreditRating				Human Workflow
DecisionProcess				BPEL
BPELLimitReviewProcess				BPEL
ManualRetry				Human Workflow
LimitReviewInitiationTask				Human Workflow
PendingWithCustomer				Human Workflow
CreditDecision				Human Workflow
Services and References				
lame	Туре	Usage	Total Messages	Average Processing Time (sec)
icdmediatorprocess_client_ep	Web Service	Service	0	0.000
BPELLimitReview_client_ep	Direct Binding	Service	0	0.000
DuplicateLimitReviewTaskChecker	JCA Adapter	Reference	0	0.000
ExternalRatingService	Web Service	Reference	0	0.000
LimitsHandoff	Web Service	Reference	0	0.000
CustomerCommunicationService	Web Service	Reference	0	0.000

• We can obtain the runtime wsdl for the process as shown below in the screen shot.

ORACLE Enterprise Manager Fusion Middleware Control	ol 12c	WebLogic Domain V 👯 SOA Infrastructure V weblogic V 🚥
BPELLimitReview [1.0]  BPELLimitReview [1.0]  State of the state of th		Mar 29, 2016 3:57:10 PM IST 🕥
Test Web Service Use this page to test any WSDL or WADL, including WSDLs or WADLs that a WSDL or WADL details, first select the Service/Resource, then select the Por	are not in the farm. To test a Web service, enter the WSDL or WADL at Method, and then select the OperationAledia type that you want to te	Test Web Service id click Parse WSDL or WADL. When the page refreshes with the st. Specify any input parameters, and click Test Web Service.
WSDL or WADL The Works 220216 in oracle.com/2403/sos-Infralservices/ HTTP Basic Auth Option for WSDL or WADL Access	efaul/BPELLImiReviewilcomediatorpro	
Service icdmediatorprocess_client_ep  Port ICDMediatorProcess_pt  Operation process  Endpoint URL http://ofss220216.in.oracle.com:7403/soa-infra/services/det Request Response	aufWBPELLimilRevi Edit Endpoint URL	
SoAP Body  Security  Security  Guality of Service  HTTP Header  Additional Test Options  Load Payload  Browsee  SoAP Body  View v © Detach	No file selected. Seve Peyload	Ę
Name Type	Value	
<pre>&gt; * payload payload Request Response</pre>		



• Now we replace this runtime wsdl in the composite.xml of the process as shown in the screen shot for that particular subprocess. Click on the source tab(highlighted in the screenshot) to view the xml code of the process



# 5. Deployment Profile and Configuration Plan

#### 5.1 Introduction

A deployment profile is automatically created for all FCUBS Process flows. The application profile includes the JAR files of SOA projects.

The configuration plan enables us to define the URL and property values to use in different environments. During process deployment, the configuration plan is used to search the SOA project for values that must be replaced to adapt the project to the target environment.

#### 5.2 Updating the configuration plan

All the FCUBS process flows has been developed with three configuration plans with the following naming convention for development, testing & production environments. If there are no configuration plans in any process flow, it simply means that there are no replacement values that needs to be replaced in the project and that project can be deployed without any config plans.

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	<replace></replace>	
3	<service name="OpenCurrent&amp;ccount_client_ep"></service>	
	<pre></pre>	
3	Add search and replace rules for the component properties</td <td></td>	
	For components and service/reference bindings, you can add policy references.	
	Example:	
	<component "="" name=""></component>	
	<usp:policyreference orawsp:category="management" orawsp:status="enabled" uri="oracle/log_policy"></usp:policyreference>	
	>	
3	<pre><reference name="KYCOorporateReview"></reference></pre>	
3	dbinding type="0s">	
-	<a name="port" tribute=""></a>	
	<pre><replace>http://xmlns.oracle.com/KYCCorporateReview#wsdl.endpoint(KYCCorporateReview/KYCCorporateReview)</replace> <td></td></pre>	
	<a name="location" tribute=""></a>	
	<pre>creplace&gt;http://subpd.filexsolutions.com:8001/soa-infra/services/default/KYCCorporateReview!1.0/client?WSDL&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;&gt;</pre>	
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	<pre>creference mae="DBUtility"&gt;</pre>	

Expand the Application -> SOA -> <processflow\_name>\_cfgplan\_dev.xml

In the configuration plan we need to give the latest runtime wsdl location of the subprocesses if present. The runtime wsdl location is obtained as mentioned earlier from the em console.





The soaconfigplan.xml, if present in the project also have to be updated with the runtime wsdl location of the subprocesses since this will be referred by the process in runtime.

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a) Working Sets			THE REPORT OF A DESCRIPTION OF A DESCRIP	
	Creference name-"KYCCheck	(Service")	and a local second second second second	
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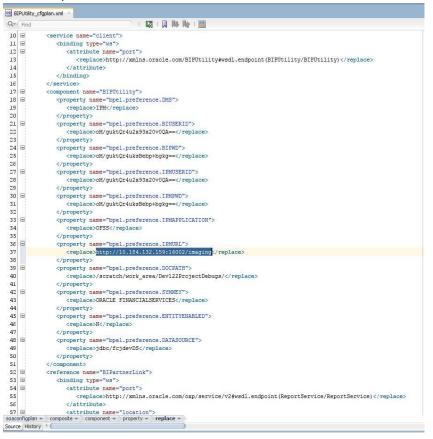
## 5.3 Config plan changes for BIPUtility process.

Open the BIPUtility\_cfgplan.xml and copy corresponding values for the below mentioned properties from fcubs.property file.

Config_plan property	fcubs.properties
bpel.preference.BIUSERID	BI_USER
bpel.preference.BIPWD	BI_PASSWORD
bpel.preference.DOCPATH	BPEL_DOC_PATH
bpel.preference.SYMKEY	SYMMETRIC_KEY
bpel.preference.ENTITYENABLED	'Y' to enable entity OR 'N' to disable entity



bpel.preference.DATASOURCE	Map the Datasource JNDI name which is mapped for entity in the property file.
bpel.preference.IPMUSERID	Enter IPM Login Username
bpel.preference.IPMPWD	Enter IPM Login Password
bpel.preference.IPMAPPLICATION	Please provide IPM application (Which will be created after login to IPM application).
	Eg: OFSS or FLEXCUBE
bpel.preference.IPMURL	IPM Url upto 'imaging.
	Eg: http://10.184.132.159:16002/imaging

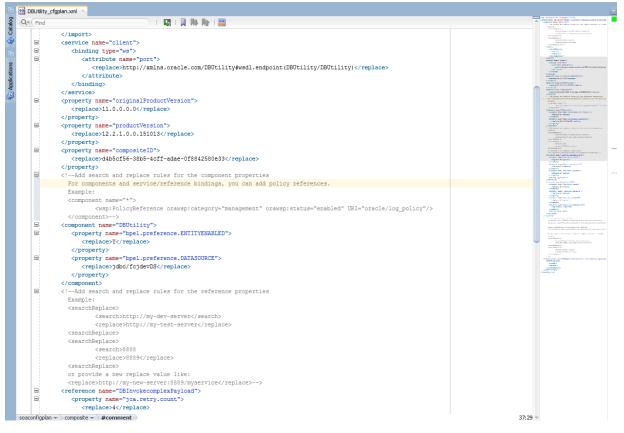




### 5.4 Config plan changes for DBUtility process.

Open the DBUtility \_cfgplan.xml and copy corresponding values for the below mentioned properties.

Config_plan property	Property Values
bpel.preference.ENTITYENABLED	'Y' to enable entity OR 'N' to disable entity
bpel.preference.DATASOURCE	Map the Datasource JNDI name which is mapped for entity in the property file.

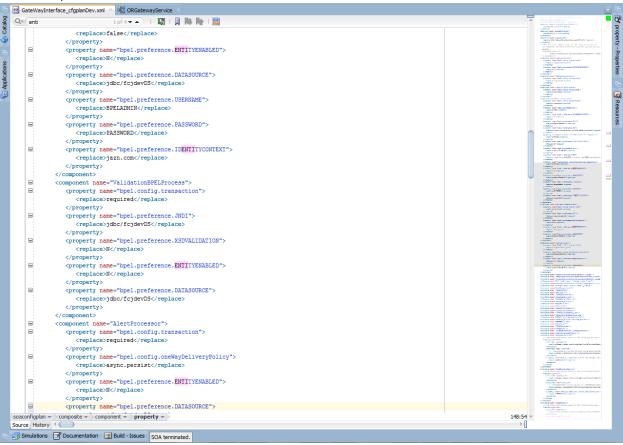




#### 5.5 Config plan changes for Gateway process.

Open the GateWayInterface\_cfgplanDev.xml and copy corresponding values for the below mentioned properties.

Config_plan property	Property Values
bpel.preference.ENTITYENABLED	'Y' to enable entity OR 'N' to disable entity
bpel.preference.DATASOURCE	Map the Datasource JNDI Name which is mapped for entity in the property file.

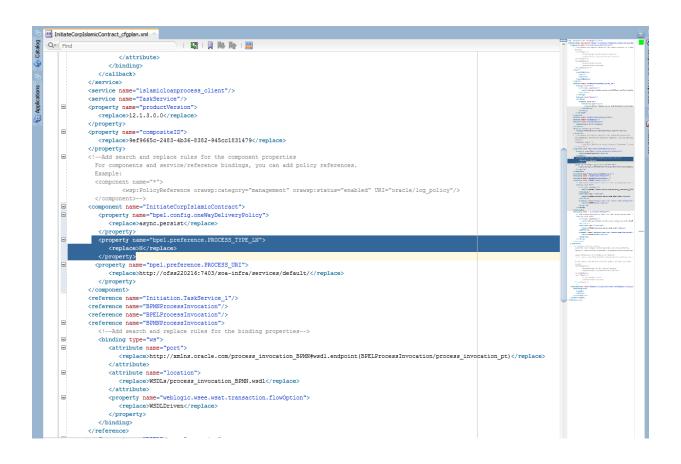




### 5.6 <u>Config plan changes for</u> InitiateCorpIslamicContract process

Open the InitiateCorpIslamicContract\_cfgplan.xml and copy corresponding values for the below mentioned properties to initiate BPEL or BPMN process from Common process.

Config_plan property	Property Values
bpel.preference.PROCESS_TYPE_LN	Set value as ' L' to initiate BPEL Process from Common Process
bpel.preference.PROCESS_TYPE_LN	Set value as ' N' to initiate BPMN Process from Common Process





## 5.7 Updating the Datasource name

The config.properties file, if present in the project of any of the sub processes, has the encrypted datasource name. This should be same as the one given in the fcubs.properties file while building the EAR .



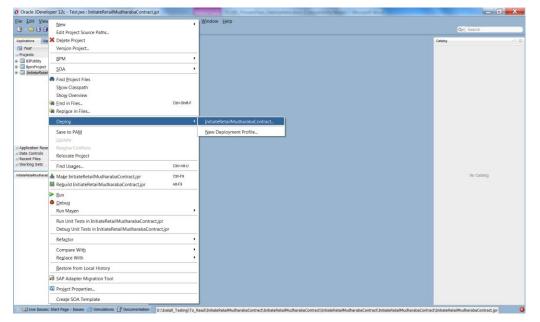
# 6. Deploying a Single Composite application using JDeveloper

#### 6.1 Introduction

This section describes how to deploy a single SOA composite application with Oracle JDeveloper after completing updating of config plans with respective target environment replacement values.

### 6.2 **Deploying the Application**

- Right click on the Application that needs to be deployed.
- Select 'Deploy' and then click on the default deployment profile which is the same as the application name.
- This will result in the deployment wizard screen being launched.



 The wizard shows the "Deployment Action" screen .Select 'Deploy to Application server' and click 'Next'



Deploy InitiateRetai	IMudharabaContract	ſ
Deployment Actio	n	
🔎 Deployment Actio	Select a deployment action from the list below.	
Deploy Configuration		
Ó Summary	Generate SAR File	
	Deploy this archive to SOA configured Application server(s)	
( ) ·		
<u>H</u> elp	< <u>B</u> ack <u>N</u> ext > Einish Cancel	

- Deployment configuration is done as illustrated in the below screen shot
- Select a Revision with which the deployment should happen
- Select a " Configuration Plan" that was updated as given in Section 5
- Provide a new revision ID. It should be always higher than the earlier revision of the process flow like 1.0, 2.0,3.0 etc
- Check the checkbox "Mark composite revision as "default"
- Uncheck the checkbox "Overwrite any existing composites with the same revision ID"
- Click "Next" to proceed with the deployment.



Deploy InitiateReta	ilMudharabaContract	
Deploy Configurat	tion	
Deployment Action Deploy Configurat Select Server SOA Servers Summary	Composite Revision Project: Current Revision ID: New Revision ID: SOA Configuration Do not attach	n ID nitiateRetailMudharabaContract .0
	Mark composite revisio Overwrite any existing Keep running instan	arabaContract_testing_124_cfgplan.xml on as default. composites with the same revision ID. cces after redeployment. configuration plan for all composites: Browse
<u>H</u> elp		< <u>B</u> ack <u>N</u> ext > Einish Cancel

- Select the Application server 'Server Connection' configured that was done in Section 3 to which the deployment needs to be done
- Click 'Next' to proceed with the deployment.

#### Note :

In case "Overwrite any existing composites with the same revision ID" checkbox is checked during the deployment, the active tasks which are currently running on the current revision of the process flow will be moved to "Stale" task status. The tasks which are in "Stale" status will not be displayed in the FLEXCUBE Application (under Task tab). Make sure that, before deploying the process, the "Overwrite any existing composites with the same revision ID" checkbox should be unchecked.



Deploy InitiateFCUBSOR	RetailLoanContract				x
Select Server					
Q Deployment Action	Application Servers:				🕂 🔓 🖓
Deploy Configuration	IntegratedWebLogicServer				
Select Server	IUT				
SOA Servers					
O Summary					
	Overwrite modules of the same r	name			
Help		< <u>B</u> ack	Next >	Einish	Cancel

- Select the Application 'server' to which the deployment needs to be done.
- If the application server is not configured, it needs to be added by clicking on the '+' button on the right top corner

Deploy InitiateReta	IMudharabaContract			X
Select Server				
Deployment Action Deploy Configuration Select Server SOA Servers Summary	Application Servers: IntegratedWebLogicServer (domain unconf	igured)		
( )	✓ Overwrite modules of the same name			
<u>H</u> elp		< <u>B</u> ack <u>N</u> ext >	<u>F</u> inish	Cancel

• Input the connection name and the connection type based on the weblogic console configured before and click next



O Create Application	Server Connection - Step 1 of 2	X
Name and Type	encronomence.	<b>F</b>
Name and Type	Specify a unique name and type for the connection. The name must be a valid Java identifier. Create connection in: IDE Connections <u>Connection Name:</u> IUT Connection <u>Type:</u> WebLogic 12.x •	
<u>H</u> elp	< <u>B</u> ack <u>N</u> ext > <u>E</u> inish	Cancel

• System prompts for the weblogic password, proceed with next after inputting

O Create Application S	Server Connection - Step 2 of 5	X
Authentication	ereisnenseren mit befolgen	>
Name and Type Authentication Configuration Test Finish	Specify a username and password to authenticate the connection.  Username: weblogic Password:	
<u>H</u> elp	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Can	cel

• Enter the Weblogic Hostname of the adminserver, port and domain details and click on next



O Create Application	Server Connection - Step 3 of 5
Configuration	
Name and Type     Authentication     Configuration     Test	WebLogic Server connections use a host name and port to establish a connection. The Domain of the target will be verified WebLogic Hgstname (Administration Server): 10.184.132.228
Finish	Port: <u>SSL</u> Port: 8001 8002
	Aways use SSL WebLogic Domain: soa_server_bpe
<u>H</u> elp	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Cancel

- Click on the Test Connection button to verify whether the details inputted are
- validated for the deployment of process

Create Application	Server Connection - Step 4 of 5
Test	
Vame and Type Authentication Configuration Test Finish	Click Test Connection to determine if the information specified successfully establishes a connection with the application server.  Est Connection  Testing HTTP Authentication Testing JBR-160 DomainRuntime Testing JBR-89-DOLL Testing JBR-89-DOLL Testing JBR-89-DOLL Testing JBR-89-DOLL Testing JBR-89-DOLL Testing JBR-160 Data Testing JBR-160 Lata Testing JBR-160 La
<u>H</u> elp	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Cancel

• And Once the connection is created, click on Finish



O Create Application	Server Connection - Step 5 of 5
Finish	
Name and Type Authentication Configuration Test	You have completed creating the connection. To open your connection, expand the connection node in the Application Server Navigator.
<u>H</u> elp	< <u>B</u> ack Next > Einish Cancel

- Now the step returns to SOA servers so that the newly configured details
- can be added and deployment can be proceeded further

Deploy InitiateRetai	ailMudharabaContract	
Select Server		
Deployment Action	Application Servers:	
Select Server		
·()	✓ Overwrite modules of the same name	
Help	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Cancel	

- Click Next after this
- View the summary of the deployment details and click 'Finish' to complete the deployment.



Deploy InitiateFCUBSORF	RetailLoanContract
Summary  Deployment Action  Deploy Configuration  Select Server  SOA Servers  So Summary	Deployment Summary: 
Help	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Cancel

• The deployment status can be verified in the deployment status Log window.

Deployment - Log	×	8
Q	Action	; •
[03:14:15 PM	Deploying profile	-
[03:14:15 PM	] Updating revision id for the SOA Project 'InitiateFCUBSORRetailLoanContract.jpr' to '1.0'	
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[03:14:15 PM	) Adding soaconfigplan.xml to archive.	
[03:14:15 PM	Wrote Archive Module to D:\Oracle12Clatest\Middleware\Oracle_Home\mywork\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract	a:
[03:14:15 PM	] Deploying sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar to partition "default" on server soa_server1 [http://ofss2221222.in.oracle.com:7403]	
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[03:14:15 PM	Adding sar file = D:\Oracle12Clatest\Middleware\Oracle_Home\mywork\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoa	n(
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[03:14:15 PM	] Creating HTTP connection to host:ofss2221222.in.oracle.com, port:7403	
[03:14:15 PM	Sending internal deployment descriptor	
[03:14:15 PM	Sending archive - sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar	
[03:15:55 PM	Received HTTP response from the server, response code=200	
[03:15:55 PM	] Successfully deployed archive sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar with 0 warning/severe messages to partition "default" on server soa_server1 [htt	p
[03:15:55 PM	Elapsed time for deployment: 1 minute, 56 seconds	
[03:15:55 PM	) Deployment finished	
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- The deployed process can be verified by checking if the process is showing up in the SOA Suite enterprise manager console.
- Login to <a href="http://enstname>:enstremation-text-align: center-text-align: center-tex-align: center-text-align: center-text-align: center
- Expand SOA >soa-infra and view all deployed applications



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the sea-Infra € H SOA Infrastructure + Ibeal SOA Felders Deployed Composities Flow Instances Error Hospital				Nev 22, 2017 4:50:21 PM 1
composite application consists of the entire assembly of SOA components that implement the business logic and expose the application to the outside world. The following SOA composite revisions are currently deployed.				
search	Composite ¥			
Aww v Start Up., Activate Set As Default , Deploy., Redeploy.,				
Composite	SOA Folder	Status	Mode	Deployed 🤊 🛎 🔻
OpenCurrentAccount [3.0]	default	+	Active	Oct 13, 2017 12:05:2
ORGatewayService [1.8]	default	+	Active	Sep 27, 2017 9:07:04
ORGatewayService [1.7]	default	+	Retired	Sep 27, 2017 3:23:30
InitiateRetailLoanContractFCUBSORService [2.0]	default	+	Active	Sep 6, 2017 4:24:39 PM
OpenSavingsAccount [3.0]	default	<b>+</b>	Active	Aug 30, 2017 4:50:46
OpenCurrentAccount (2.0)	default	+	Retired	Aug 9, 2017 1:16:48 PM
ORGatewayService [1.4]	default	+	Retired	Jul 7, 2017 6:28:24 PM
InitiateFCUBSORRetailLoanContract [1.0]	default	+	Active	Jun 16, 2017 4:12:47
CreateCorporateCustome [1.0]	default	+	Active	Jun 13, 2017 2:27:59
TermDepositForeClosure [1.0]	default	+	Retired	Jun 13, 2017 2:24:40
OpenRetaiTermDepost [1.0]	default	+	Active	Jun 13, 2017 2:18:07
InitiateCorpMusharakaContract [9.0]	default	+	Active	May 18, 2017 2:50:23
CRPProcess [1.0]	default	+	Active	May 12, 2017 10:26:3
COLLATProcess [1.0]	default	+	Active	May 12, 2017 10:23:3
BPELCRPProcess [3,0]	default	+	Active	May 12, 2017 10:19:0
BPELCRPProcess [2.0]	default	+	Active	May 11, 2017 7:15:45
BPELCOLLATProcess [2.0]	default	+	Active	May 11, 2017 7:07:07
BPELCRPProcess [1.0]	default	+	Active	May 11, 2017 6:59:01
BPELCOLLATProcess [1.0]	default	+	Active	May 11, 2017 6:34:57
InitiateRetallMurabehContract [5:0]	default	+	Active	Apr 26, 2017 4:01:33
InitiateRetailijarahaContract [3.0]	default	+	Active	Apr 25, 2017 12:07:1
InitiateCorplstisnaContract [1.0]	default	+	Active	Apr 18, 2017 11:06:17



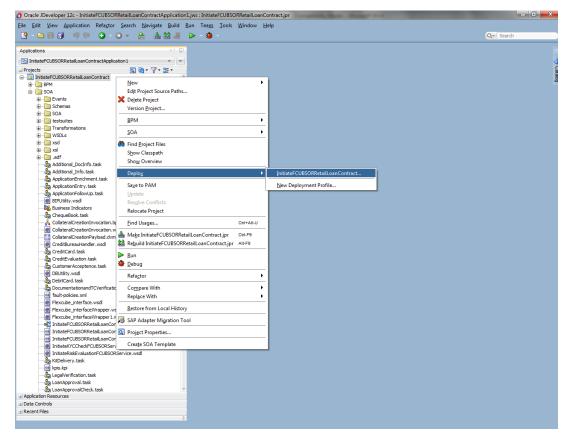
Deploying a Single Composite application via Enterprise manager console

#### 6.3 Introduction

This section describes how to build a SAR file for a single SOA composite application with Oracle JDeveloper and deploy the same via enterprise manager console.

#### 6.4 **Deploying the Application**

- Right click on the Application that needs to be deployed.
- Select 'Deploy' and then click on the default deployment profile which is the same as the application name.
- This will result in the deployment wizard screen being launched.



- In deployment action screen choose 'Deploy to SAR'
- Click 'Next' to proceed with the deployment.



Deploy InitiateFCUBSOR	RetailLoanContract	x
Deployment Action		
Deployment Action	Select a deployment action from the list below.	
Summary	Deploy to Application Server Generate SAR File Generate a SAR (.jar extension) file for the selected SOA project.	
Help	< Back Next > Finish Can	el

- In deployment configuration screen enter the revision
- Select the configuration plan.
- Click "Next" to proceed with the deployment.

👌 Deploy InitiateFCUBSORF	etailLoanContract			X		
Deploy Configuration						
Peployment Action	भूषि InitiateFCUBSORRetailLoanCo	ntract				
Deploy Configuration	Composite Revision ID					
Summary	Project: InitiateFCU	BSORRetailLoanCont	ract			
	Current Revision ID: 1.0					
	New Revision ID: 1.0					
	SOA Configuration Plan					
	O Do not attach					
	InitiateFCUBSORRetailLoanContractTesting_cfgplan.xml					
	Use the following SOA configurat	on plan for all compo	sites:			
				Browse		
Help	< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel		

- Review the deployment summary screen
- Click "Finish" to proceed with the deployment.



- Review the deployment log
- It shows the folder onto which the SAR file is written.

Oracle JDeveloper 12c - InitiateFCUBSORRetailLoanContractApplication1.jws : InitiateFCUBSORRetailLoanContract.jpr	
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Bome/mywork/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/deploy/sca_InitiateFCUBSORRetail	ilLoanContract_rev1.0.jar
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- Login to the enterprise manager console.
- Login to <a href="http://enstname>:enstremation-text-align: center-text-align: center-tex-align: center-text-align: center-text-align: center



LOGIN TO ORACLE ENTERPRISE MANAGER FUSION MIDDLEWARE CONTROL 12c	
Domain Domain_soa_domain * User Name * Password LogIn	
	ORACLE

- After logging in from the left pane Expand 'SOA'
- Right click on soa-infra
- Choose SOA Deployment -> and click "Deploy" option.
- Select the 'SAR' archive
- Select the deployment plan with which the application needs to be deployed as illustrated in the screen shot.



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Configuration Plan The configuration plan is a file that contains the No external configuration plan is required. Configuration plan is on the machine where Browse No file selected. Configuration plan is on the server where E		Open Cancel	

• Click on 'Next' to proceed with the deployment.



#### WebLogic Server or Cluster

Based on the context from which you launched this wizard, the selected composite will be deployed to the WebLogic server or cluster shown below. If you wish to deploy to a different target, click Cancel to exit this wizard, navigate to a different WebLogic server or cluster shown below. If you wish to deploy to a different target, click Cancel to exit this wizard, navigate to a different WebLogic server or cluster shown below. If you wish to deploy to a different target, click Cancel to exit this wizard, navigate to a different WebLogic server or cluster shown below.

Deployment Target 🛛 🖡 /Domain\_soa\_domain/soa\_domain/soa\_server1

Type Oracle WebLogic Server

### Token Configurations

As a good practice, configure the global token variables referenced by this composite before deploying it. Else the composite may not run property, once it is deployed. Global token variables are used to resolve environment specific URIs when a composite is moved to another environment. Before starting the deployment operation, ensure that all the tokens referenced by the selected composite are configured. The Token Configurations page can be found in the SOA Administration section of the SOA Infrastructure target menu. [More Info...]

#### SOA Partition

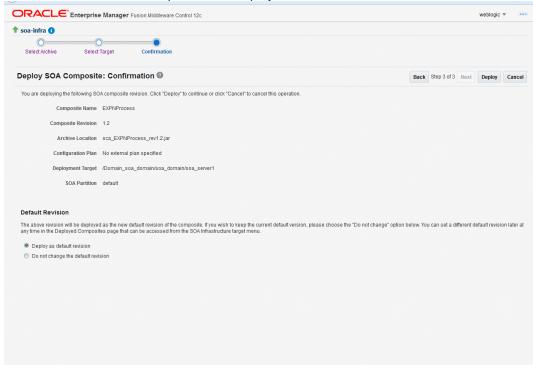
Partitions are logical groupings of composites that help you manage large deployments. The selected composite will be deployed to the partition shown below. If you wish to deploy to a different partition, select it from the list below.

default 💌

• Select default partition.



• Select the default revision option if this deployment needs to be the default one



• Click on "Deploy" to complete the deployment.

ORACLE Enterprise Manager Fusion Middleware Co	ntrol 12c	weblogic 💌 🚥
soa-infra Select Archive Select Target Confirmation		
Deploy SOA Composite: Confirmation @		Back Step 3 of 3 Next Deploy Cancel
You are deploying the following SOA composite revision. Click "Deploy"	to continue or click "Cancel" to cancel this operation.	
Composite Name EXPNProcess		
Composite Revision 1.2		
Archive Location sca_EXPNProcess_rev1.2.jar		
Configuration Plan No external plan specified	Deployment Succeeded	
Deployment Target /Domain_soa_domain/soa_dom	Composite "EXPNProcess [1.2]" has been successfully deployed.	
SOA Partition default	Summary	
	Deployment Target /Domain_soa_domain/soa_domain/soa_server1	
Default Revision	Archive Name sca_EXPNProcess_rev1.2.jar	
The above revision will be deployed as the new default revision of the any time in the Deployed Composites page that can be accessed from		n below. You can set a different default revision later at
	Close	
<ul> <li>Deploy as default revision</li> <li>Do not change the default revision</li> </ul>		



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Composite	Status	Mode	Deployed ?	
InitiateRetailMurabahContract [1.0]	Ŷ	Active	Apr 6, 2017 4:21:48 PM	
EXPNProcess [1.0]	Û	Active	Mar 27, 2017 9:55:12 PM	
<ul> <li>CRPProcess [1.0]</li> </ul>	Û	Active	May 12, 2017 10:26:39 AM	
OpenCurrentAccount [2.0]	Û	Retired	Aug 9, 2017 1:16:48 PM	
		Active	Oct 13, 2017 12:05:20 PM	
<ul> <li>OpenCurrentAccount [3.0]</li> </ul>				
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	-	Active	Mar 27, 2017 938 A7 PM Jun 13, 2017 2:27:59 PM	
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• Check the deployed process from the enterprise manager console.



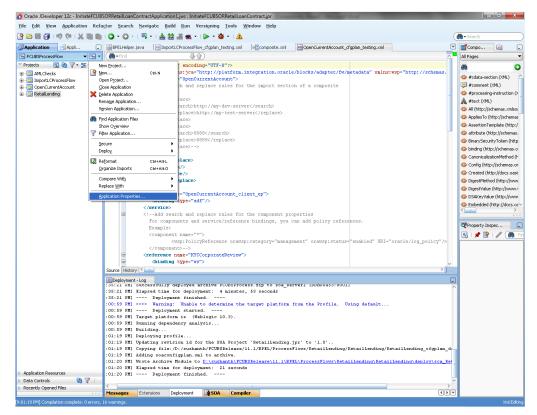
# 7. Deploying Multiple Composite application using JDeveloper

### 7.1 Introduction

This section describes how to deploy a multiple SOA composite application with Oracle JDeveloper after completing updating of config plans with respective target environment replacement values.

# 7.2 Creating the Deployment Profile

• From the application menu select 'Application Properties' as illustrated in the screen shot.



- In the Application Properties dialog, click Deployment.
- Click New.



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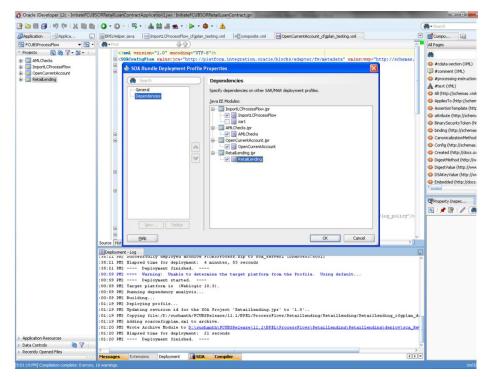
- The Create Deployment Profile dialog appears.
- In the Archive Type list, select SOA Bundle.
- In the Name field, enter a name and click 'OK'.

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- In the navigator on the left, select the Dependencies node.
- Select the SARs you want to include in this bundle, as illustrated in the screen shot



Click OK.

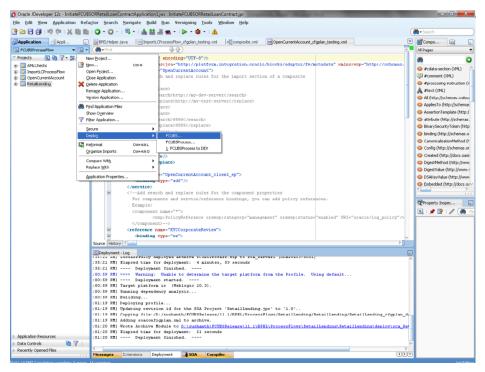


Click OK to close the Application Properties dialog.

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• Select the Application menu again, then select Deploy > SOA\_bundle\_name





Deployment screen is launched, Select 'Deploy to Application Server'

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- Deployment configuration is done as illustrated in the below screen shot for each application which is displayed in the tab, application navigation can be done using the pointer provided at the end of the tab.
- Select a Revision with which the deployment should happen



- Select a " Configuration Plan" that was updated as given in Section 5
- Remember to check both the checkboxes
- "Mark composite revision as 'default"
- "Overwrite any existing composites with the same revision ID"
- After all the applications are configured Click "Next" to proceed with the deployment.

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- Select the Application server 'Server Connection' configured that was done in Section 3 to which the deployment needs to be done
- Click 'Next' to proceed with the deployment.



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• Select the Application 'server' to which the deployment needs to be done.

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• View the summary of the deployment details and click 'Finish' to complete the deployment.



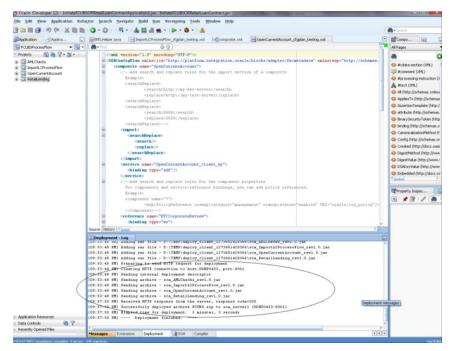
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• If the server prompts for username / password provide the credentials for the server.

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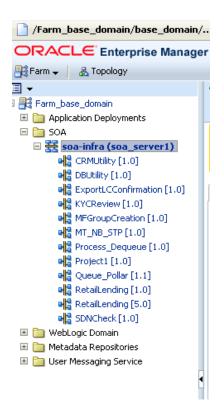
• The deployment status can be verified in the deployment status Log window.





- The deployed process can be verified by checking if the process is showing up in the SOA Suite enterprise manager console.
- Login to <a href="http://<hostname>:<port>/em">http://<hostname>:<port>/em</a>
- Expand SOA >soa-infra and view all deployed applications







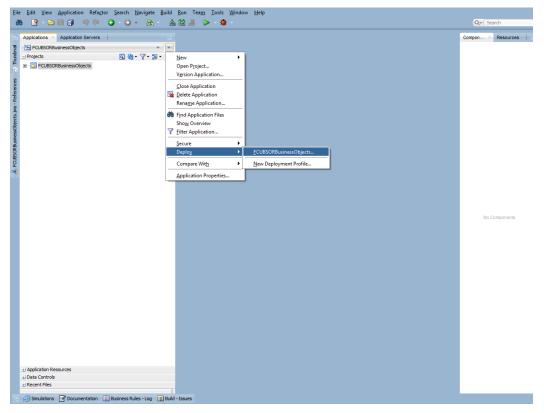
# 8. Deploying MDS application using JDeveloper

### 8.1 Introduction

This section describes how to deploy a MDS application with Oracle JDeveloper with respective target environment.

### 8.2 **Deploying the Application**

- Load the MDS Application(FCUBSORBusinessObjects,FCUBSORServiceObjects) in Jdeveloper
- Right click on the "Application" tab in the Jdeveloper
- Select 'Deploy' and then click on the default deployment profile which is the same as the application name.
- This will result in the deployment wizard screen being launched.



- In deployment action screen choose Deploy to Application Server.
- Click Next→Next to proceed with deployment.
- Select the Application Server to which the MDS Application Needs to Deploy.



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• Click Next and Finish buttons on the deployment wizard after selecting application server.

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• Review the deployment log to see successfully deployed message as below



# 9. Deployment and configuration of Oracle BAM Reports

- 1) Login to console <a href="http://hostname:port/console">http://hostname:port/console</a>
- 2) Click on Data sources.

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Deployments	Configure a Dynamic Cluster	<ul> <li>Ask a question on My Oracle Support</li> </ul>	
B-Services	<ul> <li>Recent Task Status</li> </ul>		
Security Realms	<ul> <li>Set your console preferences</li> </ul>		
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4) Click on Target tabs  $\rightarrow$  Select bam\_server check box  $\rightarrow$  Click Save



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WebLogic Server Version: 12.2.1.0.0 Copyright (c) 1996,2015, Oracle and/or its affiliates. Al Oracle is a registered trademark of Oracle Corporation	All rights reserved. on and/or its affiliates. Other names may be trademarks of their respective owners.	

5) Copy the FCUBS\_BAM\_Report.zip project from SVN (/SOFT/MAIN/OR/Process\_infra/Reports/BAM) to your local system.



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6) Open the FCUBS\_BAM\_Report.zip →Dataobject →Update the Schema element with the SOA\_INFRA schema name for Wftask\_Different\_Stages.xml, CUBE\_INSTANCE.xml,FCUBSDATAOBJECTS.xml files.



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7) Open the FCUBS\_BAM\_Report.zip → Dataobject → Update the Schema element with the FCUBS schema name for SMTB\_USER\_TYPE\_CONVERSION\_VIEW.xml, ORVW\_TRACK\_EXPOSURE.xml, ORVW\_FACILITY\_EXPOSURE.xml, GetUtilsDB.xml files.

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8) Move the BAM Project Unit (.Zip) Local to server location.



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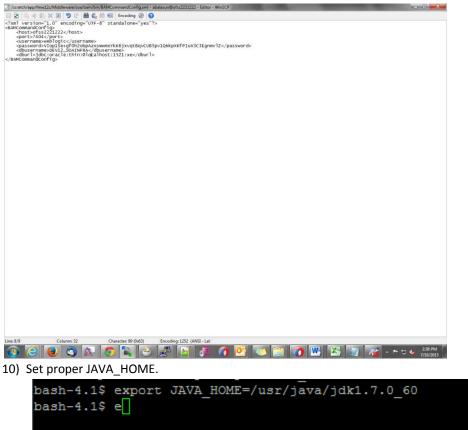
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9) Configure the BAM server location ,port username and password in BAMCommandConfig.xml. It is available in MIDDLEWARE\_HOME\soa\bam\bin\BAMCommandConfig.xml



EX:



11) Execute the Below BAM Command to import the Dash Board in to the server.
 ./bamcommand -cmd import -file /scratch/work\_area/DEV/app/FCUBS\_BAM\_Report.zip -mode append

from the below path MIDDLEWARE\_HOME\soa\bam\bin.



Enter User Name: weblogic Enter Password: Connecting to BAM Server.. "weblogic@10.184.133.168:7404". Connected to BAM Server successfully. Attempting import of artifacts from file "/scratch/work\_area/DEV/app/FCUBS\_BAM\_R eport.zip".... FCUBS BAM Report" has been imported successfully from file "/scratch/work area/ DEV/app/FCUBS BAM Report.zip" in 63,498 milliseconds. Import of 1 artifacts completed successfully in 64,251 milliseconds. [fmw122@ofss220216 bin]\$ ./bamcommand -cmd import -file /scratch/work\_area/DEV/a pp/FCUBS BAM Report.zip -mode append Oracle BAM Import/Export Utility [Build 1, BAM Repository Version 2020] Copyrigh © 2014, Oracle and/or its affiliates. All rights reserved. Enter User Name: weblogic Enter Password: Connecting to BAM Server.. "weblogic@10.184.133.168:7404". Connected to BAM Server successfully. Attempting import of artifacts from file "/scratch/work\_area/DEV/app/FCUBS\_BAM\_R eport.zip"..... "FCUBS BAM Report" has been imported successfully from file "/scratch/work area/ DEV/app/FCUBS\_BAM\_Report.zip" in 75,498 milliseconds. Import of 1 artifacts completed successfully in 75,815 milliseconds.





Process Flow Deployment [November] [2022] Version 14.7.0.00

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