FLEXCUBE ProcessFlow Deployment Oracle FLEXCUBE Universal Banking Release 12.87.7.0.0 [May] [2021]



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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

🔊 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.	10005		
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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		Close Other Documents				
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- To create a new WebLogic server connection
- Right click 'Application Servers'
- Click on → 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



O Create Application Se	rver Connection - Step 1 of 3
Usage	0101010101010101010101010
Vsage Name and Type Finish	Indicate how the application server will be used.
<u>H</u> elp	< Back Next > Einish Cancel

- 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



Create Application Serve	er Connection - Step 2 of 3	×
Name and Type		5
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Help	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Can	cel

- 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

O Create Application Serv	er Connection - Step 3 of 6				
Authentication					
Q Usage	Specify a username and password to authenticate the connection.				
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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
Configuration	
Usage Name and Type Authentication Configuration Test Finish	WebLogic Server connections use a host name and port to establish a connection. The Domain of the target will be verified WebLogic Hostname (Administration Server): ofss2221222 Port: SSL Port: 7401 7002 Always use SSL WebLogic Domain: dev_domain
Help	< Back Next > Einish Cancel

- 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

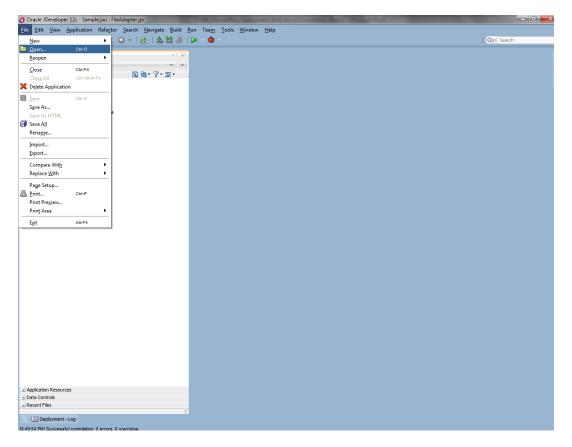
4.1 Introduction

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

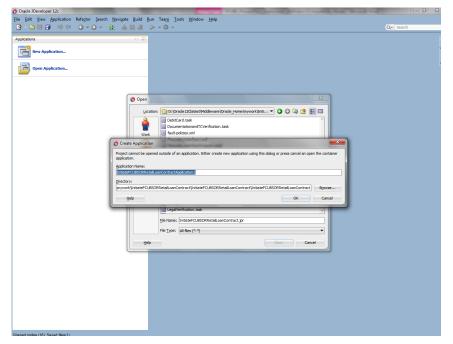


- Navigate to the folder where process flow is deployed
- Locate and select the ".jpr" file under the folder <process_name>
- Click 'Open' to load the process flow in JDeveloper



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	Ele Name: InitiateFCUBSORRetail.oanContract.jpr	
	File Type: All files (*,*)	
	Help Open C	Cancel
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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.



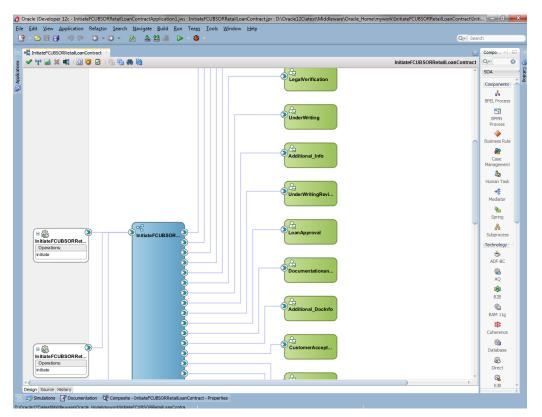
• The process flow is loaded into JDeveloper and is displayed as given below



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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 :cport>/em">http://chostname>:cport>/em

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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Click on the Target SOA server



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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.				
how only active composites 📃 Search	Composite v			
Vyew 🔻 Start Up. Activate Set As Default Deploy Undeploy Redeploy				
Composite	SOA Folder	Status	Mode	Deployed ? 🔺 🔻
OpenCurrentAccount [3:0]	default	+	Active	Oct 13, 2017 12:05:2
ORGatewayService [18]	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
OpenRetaiTermDepost [10]	default	+	Active	Jun 13, 2017 2:18:07
InitiateCorpMusharakaContract [9:0]	default	1	Active	May 18, 2017 2:50:23
CRPProcess[1:0]	default	+	Active	May 12, 2017 10:26:3
COLLATProcess [1.0]	default	1	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
InitiateRetailMurabahContract [6.0]	default	+	Active	Apr 26, 2017 4:01:33
InitiateRetailijarehaContract [3.0]	default	Ť	Active	Apr 25, 2017 12:07:1
InitiateCorplatisnaContract [1.0]	default	1	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.



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Components				
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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				
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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.

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• 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

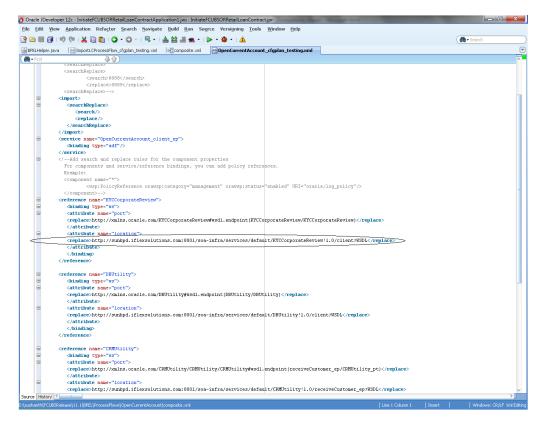
5.1 Introduction

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.



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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- 🍰 ManualRetry.task .	<attribute></attribute>	sector and parts and a logical sector in the Color and Adapted when consider as	- Q TING
± Application Resources	<pre>cattribuce>http://ofss220216:7403/soa-infra/services/default/InitiateRiskEvaluationFCUB5</pre>	Charley Concern Concern	o name: InitiateRetailMudharabaContract
± Data Controls	<a th="" tributes<=""><th>Consider and Parcel Consider and Parcel Control for a control of the Control of the Control of the</th><th>and a state of the state of the</th>	Consider and Parcel Consider and Parcel Control for a control of the Control of the Control of the	and a state of the
± Recent Files		States and	
± Working Sets		Comments Confirmer and Frederic Device Conference (Confirmer and Frederic Device Conference (
	<pre>creference name="KYCCheckService"></pre>	Contraction (Section 1) Contraction (Contraction Contraction (Contraction) Contraction (Contraction)	
InitiateRetailMudharabaContract_cfgplanDev.xml - Structure	Solution (see a second seco	Contract of the Contract of th	
12 48	attribute name="port">	 Contract and Contraction and Contraction (
© composite	<pre><replace>http://xmlns.oracle.com/SubProcess/InitiateKYCCheckFCUBSORService/InitiateKYC</replace></pre>	COLUMN CONTRACTOR OF A	
Add search and replace rules for the import section of a composite		Contract Contractor American State Antideogrammer Advances and Party	
		CONTRACTOR OF CO	
B 😳 import			
Service - InitiateRetailMudharabaContract_client_ep	<pre>G <reference name="CollateralProcess"></reference></pre>	Internet and residue to a factor	
- InitiateRetailMudharabaContract_clie	Add search and replace rules for the binding properties		
	<pre>G <pre>cbinding type="direct"></pre> <pre>G <pre>cproperty name="java.naming.provider.url"></pre></pre></pre>	MUCCAN SHOULD CARDON PARTY INTO A	Catalog × 🗉
	<pre>cycopercy name= java.naming.provider.uri ></pre>		
		Second Se	
Service - TaskService		Contraction Contraction of Contraction of Contracti	
		The second secon	
	<pre>Creference name="KYCVerificationService"></pre>	Contract to an original of the second second when responses contract contract	
I service - TaskService	<pre>cbinding type="ws"></pre>	A DESCRIPTION OF A DESC	
	G <attribute name="port"></attribute>	CREATE Commente Competence	
	<replace>http://xmlns.oracle.com/bpmn/bpmnProcess/KYCCorporateReview#wsdl.endpoint(KY(</replace>		No Catalog
Service - TaskService			
	<pre>cattribute name="location"></pre>		
	<pre><replace>http://ofss220216:7403/soa-infra/services/default/KYCCheck/KYCCheck_client_ep </replace></pre>		
service - TaskService		and department of the local sector of the se	
Service - TaskService		COMPANY COMPANY	
- O service - TaskService	soaconfigolan v composite v 142:19 v	-final-low	
	Source History		
I ive Issues: InitiateRetailMudharabaContract_cfonlanDev.xml - Issu	😆 🔄 Simula D.\ Install. Testino\To. Read\InitiateRetailMudharahaContract\InitiateRetailMudha	tract) Toltisto Rotal Mudbarak	haContract) InitiateRotailMudharahaContract_cfonlanD

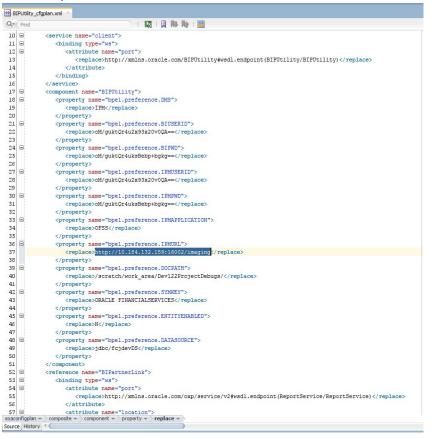
5.3 Config plan changes for BIPUtility process.

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

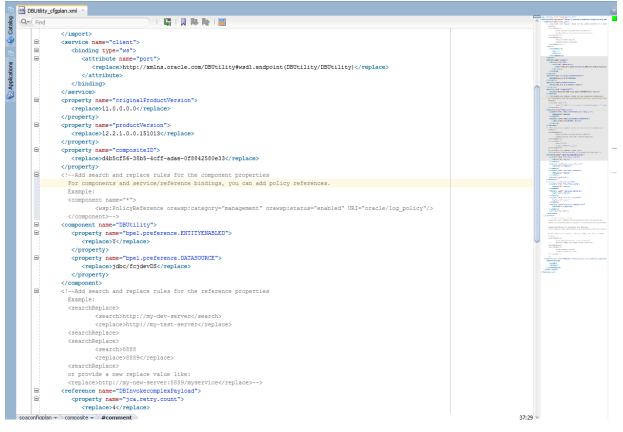




5.4 Config plan changes for DBUtility process.

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.

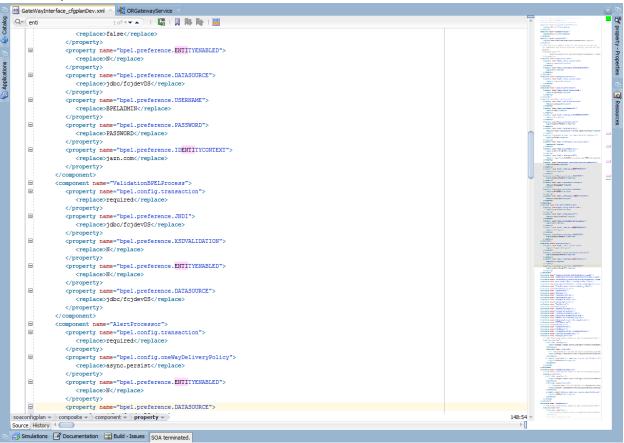




5.5 Config plan changes for Gateway process.

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

Open the GateWayInterface_cfgplanDev.xml and copy corresponding values for the below mentioned properties.

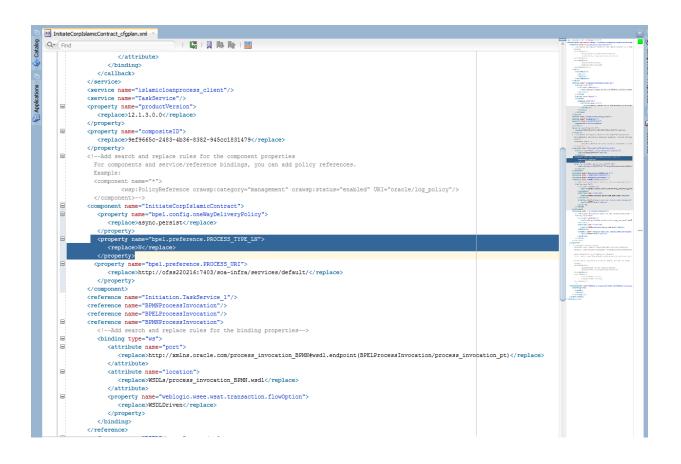




5.6 <u>Config plan changes for</u> InitiateCorpIslamicContract process

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.



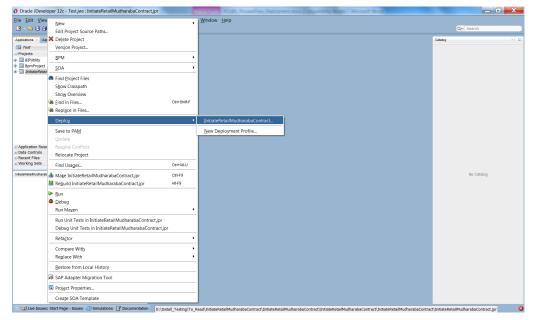
6. Deploying a Single Composite application using JDeveloper

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	
Deployment Action	n	
Deployment Actio	Select a deployment action from the list below.	
Deploy Configuration	beploy to replication berver	
ပ် Summary	Generate SAR File	
	Deploy this archive to SOA configured Application server(s)	
< <u>←</u> →		
<u>H</u> elp	< <u>B</u> ack <u>Next</u> > <u>E</u> inish 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.



Oeploy InitiateReta	ilMudharabaContract	
Deploy Configurat	tion	
Deployment Action Deploy Configurat Select Server SOA Servers Summary	Current Revision ID: New Revision ID: SOA Configuratio Do not attach InitiateRetailMud	ion ID InitiateRetailMudharabaContract 2.0 2.0
	Keep running insta	g composites with the same revision ID. inces after redeployment. A configuration plan for all composites: Browse
<u>H</u> elp		< <u>B</u> ack <u>N</u> ext > <u>F</u> inish 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					
C Deployment Action	Application Servers:				4 %
Deploy Configuration	IntegratedWebLogicServer				
Select Server	IUT				
SOA Servers					
O Summary					
	✓ Overwrite modules of the same r	name			
Help		< <u>B</u> ack	<u>N</u> ext >	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 InitiateRetai	MudharabaContract			X
Select Server				
Deployment Action Deploy Configuration Select Server SOA Servers Summary	Application Servers: IntegratedWebLogicServer (domain unconf	gured)		
· · · · · · · · · · · · · · · · · · ·	✓ Overwrite modules of the same name	r Baala	Finish	Canad
Help		< <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
Name and Type	
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 Connection Name: [IJ⊤ Connection <u>Type</u> : WebLogic 12.x ▼
<u>H</u> elp	< <u>Back</u> <u>Next</u> > <u>F</u> inish Cancel

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

O Create Application :	Server Connection - Step 2 of 5
Authentication	
Name and Type Authentication Configuration Test Einish	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 Cancel

• 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	
Name and Type Authentication Configuration Test Finish	Click Test Connection to determine if the information specified successfully establishes a connection with the application server. Iest Connection Status: Testing JSR-160 Runtime success Testing JSR-160 DomainRuntime success Testing JSR-160 DomainRuntime success Testing JSR-160 Local success Testing JSR-160-DEP-MGR success Testing JSR-160-DEP-MGR success Testing JSR-160 Defermed success
Help	< <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				X
Finish			01010101	01010101919191919191	F >
Name and Type Authentication Configuration Test	You have completed creat			Server Navigator.	
Help		< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	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	X
Select Server		
Deployment Action Deploy Configuration Select Server SOA Servers Summary		
	✓ Overwrite modules of the same name	
Help	< <u>B</u> ack <u>N</u> ext > <u>E</u> inish C	ancel

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



Deploy InitiateFCUBSOR Summary Deployment Action Deploy Configuration Select Server SOA Servers Summary	RetailLoanContract X Deployment Summary:
Help	Shared Library : No

• 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 <u>http://<hostname>:<port>/em</u>
- Expand SOA >soa-infra and view all deployed applications



C 0 10.184.133.180.7040/em/faces/ai/soa/infra?type=oracle_soainfra⌖=%2FDomain_soa_domain%2Fsoa_domain%2Fsoa_server1%2Fsoa	infra			ର 🕁 🐵 🕻
RACLE Enterprise Manager Fusion Middleware Control 12c		15)	WebLogic D	Domain v weblogic v
Son-Infra Figure A Composition F				Nov 22, 2017 4:50:21 PM I
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.				
ow only active composites 🔤 Search	Composite V			
view 🔻 Start Up Activate Set As Default Deploy Undeploy Redeploy				
Composite	SOA Folder	Status	Mode	Deployed ? 🔺 🔻
OpenCurrentAccount [3.0]	default	Ť	Active	Oct 13, 2017 12:05:2
ORGatewayService [1.8]	default	1	Active	Sep 27, 2017 9:07:04
ORGatewayService [1.7]	default	+	Retired	Sep 27, 2017 3:23:30
InitiateRetaiLoanContractFCUBSORService [2.0]	default	+	Active	Sep 6, 2017 4:24:39 PM
OpenSavingsAccount [3.0]	default	1	Active	Aug 30, 2017 4:50:46
OpenCurrentAccount [2.0]	default	1	Retired	Aug 9, 2017 1:16:48 PM
ORGatewayService [1.4]	default	1	Retired	Jul 7, 2017 6:28:24 PM
InitiateFCUBSORRetailLoanContract [1.0]	default	+	Active	Jun 16, 2017 4:12:47
CreateCorporateCustomer [1.0]	default	1	Active	Jun 13, 2017 2:27:59
TermDepositForeClosure [1.0]	default	1	Retired	Jun 13, 2017 2:24:40
OpenRetallTermDepost [1.0]	default	1	Active	Jun 13, 2017 2:18:07
InitiateCorpMutharakaContract [9,0]	default	+	Active	May 18, 2017 2:50:23
CRPProcess [1.0]	default	1	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	1	Active	May 11, 2017 7:15:45
BPELCOLLATProcess [2.0]	default	1	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
InitiateRetal/MurabahContract [6.0]	default	+	Active	Apr 26, 2017 4:01:33
InitiateRetatijarahaContract [3.0]	default	1	Active	Apr 25, 2017 12:07:1
 InitiateCorplstisnaContract [1:0] 	default	+	Active	Apr 18, 2017 11:06:17



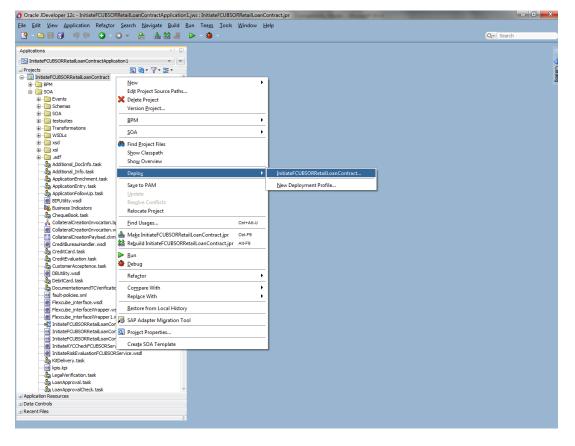
Deploying a Single Composite application via Enterprise manager console

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.



O Deploy InitiateFCUBSORRetailLoanContract				
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	< <u>Back</u> <u>N</u> ext > <u>Finish</u> Cancel			

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

Deploy InitiateFCUBSORF	RetailLoanContract	X
Deploy Configuration		
Deployment Action	ម្លា <mark>ផ្ល</mark> InitiateFCUBSORRetailLoanContract	
Deploy Configuration	Composite Revision ID	
Summary	Project: InitiateFCUBSORRetailLoanContract	
	Current Revision ID: 1.0	
	New Revision ID: 1.0	
	SOA Configuration Plan	
	O Do not attach	
	InitiateFCUBSORRetailLoanContractTesting_cfgplan.xml	
	Use the following SOA configuration plan for all composites:	
—) +		Browse
Help	< Back Next > Einish	Cancel

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



🕐 Deploy InitiateFCUBSORRetailLoanContract				
Deploy InitiateFCUBSOR Summary Deployment Action Deploy Configuration Summary	Deployment Summary:			
	Module Type: ear Global Configuration Plan: none Archive Location: /D:/Orade 12Clatest/Middleware/Orade_Home/mywork/InitiateFCUBSORRetailLoanContract/Initia Archive Name: sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar			
Help	< Back Next > Einish Cancel			

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

Oracle JDeveloper 12c - InitiateFCUBSORRetailLoanContractApplication1.jws : InitiateFCUBSORRetailLoanContract.jpr	
<u>File Edit View Application Refactor Search Navigate Build Run Team Tools Window H</u> elp	
B - D = = = = = 0 = 0 = 0 = 0 = 0 = 0 = 0 =	Q+ Search
ThistefCUBSORRetail.conContractApplication 1	*
Projects QL View V - SE • 0	3 canto
- 💼 CrediBureauHander.wsd - 🙀 CrediBureauHander.wsd	
L & Ceditaria istoriate	× 8
	Actions -
0.jar	A
ontract_rev1.0.jar with 0 warning/severe messages to partition "default" on server som_server1 [http://ofss2221222.in.oracle.com:7403]	
ailcanContract.jpr' to '1.0'	
rk/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContractTesting_	_cfgplan.xml to soaconfigplan.
Bome/mywork/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoAnContract/InitiateFCUBSORRetailLoAnCon	ilLoanContract_rev1.0.jar
	Ŷ
Messages APPL × Extensions × BSOA × Deployment ×	
	-
Image: Strategy and S	
2312 HIL CONSULT CONSULT OF HATTING.	- 😰 🗊 ♦ 3:31 PM 9/8/2015

- Login to the enterprise manager console.
- Login to <a href="http://<hostname>:<port>/em">http://<hostname>:<port>/em



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.



	🥑 File Upload	×	⊽ Cª ≫ ≡
		 ✓ 4y Search deploy 	weblogic 🔻 🚥
soa-infra Select Archive Select Target Select Archive Select Target Deploy SOA Composite: Sele This wizard lets you create a runtime environme a bundle containing revisions of multiple SOAC Specify the archive and configuration plan to de Archive or Exploded Directory You can deploy a Service archive (SAR) or a ZIP Archive is on the machine where this web Browse_ sca_EXPNProcess_rev Archive on the server where Enterprise Mark	Create(Create) EQFXpr CXPNpr CXPNpr CXPNpr Casse Case	Image:	Back Step 1 of 3 Next Cancel g Oracle Enterprise Manager. A single composite revision or evisions at once.
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			

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



0	
Select Archive Select Target Confirmation	

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 properly, 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

soa-infra 🚯													
Select Archive	O Select Target	Confirmation											
eploy SOA C	omposite: Conf	irmation @							Bac	K Step 3 of 3	Next	Deploy	Car
You are deploying the	e following SOA composit	te revision. Click "Dep	oy" to continue or o	click "Cancel" to ca	cancel this opera	ation.							
Comp	oosite Name EXPNProd	Cess											
Compos	ite Revision 1.2												
Archi	ive Location sca_EXPN	NProcess_rev1.2.jar											
Config	uration Plan No externa	al plan specified											
Deploy	ment Target /Domain_	.soa_domain/soa_dor	nain/soa_server1										
S	OA Partition default												
Default Revision													
	ill be deployed as the new yed Composites page the					version, pleas	e choose the '	"Do not change	" option below. Y	'ou can set a (different d	efault revisi	on la
Deploy as defau	It revision												
O not change the second sec	ne default revision												

• Click on "Deploy" to complete the deployment.

	iontrol 12c					weblogic	• ····
1 soa-infra 1							
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 "Deplo	y" 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 Close	ot change" option be	low. You	can set a dif	ferent de	afault revisio	on later at
Deploy as default revision							
Do not change the default revision							



→ C ① 10.184.133.180:704	0/em/1	aces/a	/soa/partitionHome?soaContext=default&type=oracle_soainfra⌖=%2FDomain_soa_domain%2F	Fsoa_domain%2Fsoa_server1%2Fsoa 🔍 🕁 🧔
	Fusion !	Aiddlewar	Control 12c	WebLogic Domain v weblogic v
🕇 soa-infra 0				
SOA Infrastructure 👻				Nov 22, 2017 7:03:51 PM IST
Infrastructure > SOA Folder				
default 🔻 SOA Folder				
shboard Deployed Composites Flow Inst				
incoard [pepioyed Composites] Flow inst	ances	Effor Hos		
Composites Control v Deployment v				P Related Links w
A Folders are logical groupings of composites t	to help yo	u manage	large deployments. The following SOA composite revisions are deployed in this folder.	
				Search Search Composite (full or partial name) Q
	-			Composite Revisions Found
	Status		Deployed ?	
InitiateRetalMurabahContract [1.0]	-	Active	Apr 6, 2017 4:21:48 PM	
EXPNProcess [1.0]	-	Active	Mar 27, 2017 9:55:12 PM	
CRPProcess [1.0]	-	Active	May 12, 2017 10:28:39 AM	
OpenCurrentAccount [2.0]	-	Retired	Aug 9, 2017 1:16:48 PM	
	Ŷ	Active	Oct 13, 2017 12:05:20 PM	
		Active	Mar 27, 2017 9:58:47 PM	
TRUNProcess [1.0]	-			
TRUNProcess [1.0] CreateCorporateCustomer [1.0]	ŵ	Active	Jun 13, 2017 2:27:59 PM	
TRUNProcess [1.0] CreateCorporateCustomer [1.0] InitiateCorpljarahContract [1.0]	ି ଜ	Active	Apr 11, 2017 9.04:11 PM	
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• Check the deployed process from the enterprise manager console.



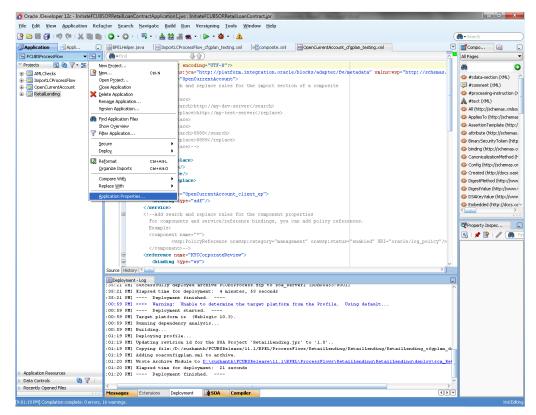
7. Deploying Multiple Composite application using JDeveloper

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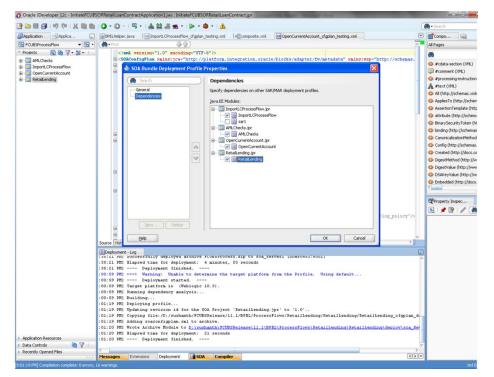
- The Create Deployment Profile dialog appears.
- In the Archive Type list, select SOA Bundle.
- In the Name field, enter a name and click 'OK'.

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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.

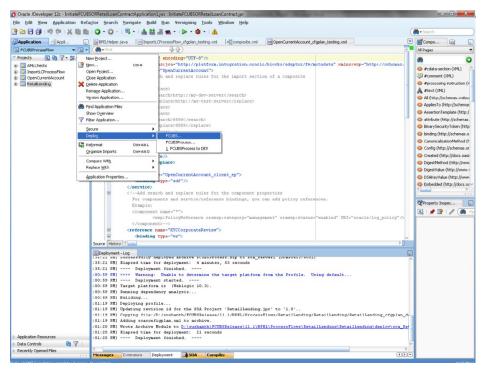


Click OK to close the Application Properties dialog.

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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.



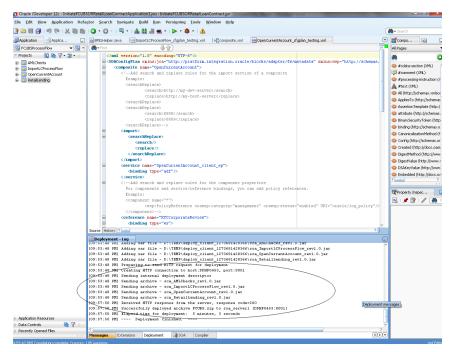
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• If the server prompts for username / password provide the credentials for the server.

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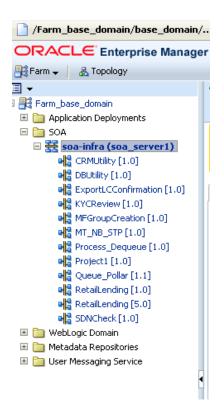
• The deployment status can be verified in the deployment status Log window.





- 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
- Expand SOA >soa-infra and view all deployed applications







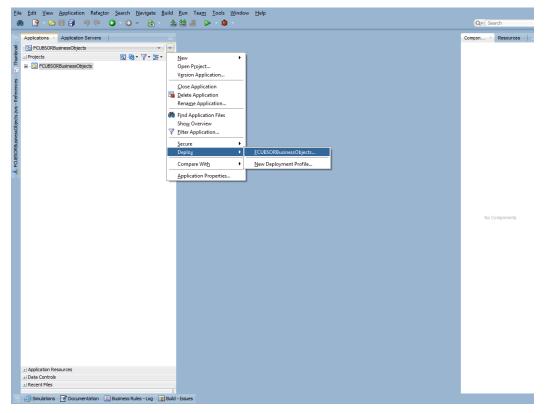
8. Deploying MDS application using JDeveloper

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 http://hostname:port/console
- 2) Click on Data sources.

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OK (3)	Resource Management	XML Registries	
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3) Click on the SOAData source.

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4) Click on Target tabs \rightarrow Select bam_server check box \rightarrow Click Save



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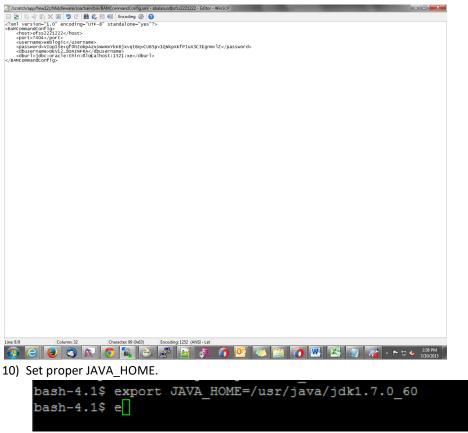
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9) Configure the BAM server location ,port username and password in BAMCommandConfig.xml. It is available in MIDDLEWARE_HOME\soa\bam\bin\BAMCommandConfig.xml



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.





FCUBS Process Flow Deployment [May] [2021] Version 12.87.7.0.0

Oracle Financial Services Software Limited Oracle Park Off Western Express Highway Goregaon (East) Mumbai, Maharashtra 400 063 India

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