FCUBS Process Flow Deployment Oracle FLEXCUBE Universal Banking Release 14.1.0.0.0 [May] [2018]





FCUBS Process Flow Deployment

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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
BAM	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	ζ.	ſ
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.	9999 1	
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  $\rightarrow$  windows  $\rightarrow$  Application Servers Navigator



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

👌 Oracle JDeveloper 12c - Testjivs : BpmProject.jpr	_	
File Edit View Application Refactor Search Navigate Build Bun Team Tools Window Help		
3 DEG # # # O O - & ABA > .	Qr ( Search	
Applications Applications Servers . D Start Page 12 Process	Scripting Catalog	al 41
B X Script Tasks for process Process Select	t Imports	Edit Libraries
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A Replace in Files	18 da java	
New Application Server	E B Javax	
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Export		
Refresh F5		
Salveture i la		
No Structure		
Designer   Scripting   Collaboration   History		
Application Servers Log 🖾 Uve Issues: Process - Issues 🤿 Simulations 💽 Documentation		

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

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O Create Application Serv	er Connection - Step 1 of 3	
Usage		)C
Vsage Name and Type Finish	Indicate how the application server will be used.	
Help	< 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



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O Create Application Serv	er Connection - Step 2 of 3	×
Name and Type		3
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: Dev Connection Type: WebLogic 12.x •	
Help	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Can	icel

- 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	ver Connection - Step 3 of 6	×
Authentication		3
Q Usage	Specify a username and password to authenticate the connection.	
Name and Type	Username:	
Authentication	weblogic	
Configuration	Password:	
U Test	•••••	
Ú Finish		
Help	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish	Cancel

- 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

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FCUBS Process Flow Deployment

O Create Application Serve	r Connection - Step 4 of 6
Configuration	
Vsage 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:         devLdomain
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

Create Application Serve	er Connection - Step 5 of 6	
Test		
Vsage Name and Type Authentication Configuration Test Finish	Click Test Connection to determine if the information specified successfully establishes a connection with the application server. Test Connection Status: Testing J3R-160 Runtime success Testing J3R-160 DomainRuntime success Testing J3R-160 Edit success Testing J3R-160 Edit success Testing J3R-80 success Testing J3R-88-LOCAL success Testing J3R-88-LOCAL success Testing J3R-88-DEP-MGR success Testing J3R-88-DEP-MGR-LOCAL success Testing J3R-88-DEP-MGR-LOCAL success Testing J3R-88-DEP-MGR-LOCAL success Testing J3R-88-DEP-MGR-LOCAL success Testing J3R-88-DEP-MGR-LOCAL success Testing J3R-88-DEP-MGR-LOCAL success	
Help	< Back Next > Einish Cancel	



# 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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🕜 Oracle JDeveloper 12c	the second se	
<u>File Edit View Application Refactor Search Naviga</u>	te <u>B</u> uild <u>R</u> un Tea <u>m</u> <u>I</u> ools <u>W</u> indow <u>H</u> elp	
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	📄 kpis.kpi	
	Lega/Verification.task	
	Ele Name: InitiateFCUBSORRetail.oanContract.jpr	
	Fie Type: All files (* *)	
	· · · · · · · · · · · · · · · · · · ·	
	Help Open Cancel	
Opened nodes (16); Saved files(1)		
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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.



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- The process flow is loaded into JDeveloper and is displayed as given below
- Expand the project loaded and click on the composite.xml

🕐 Oracle JDeveloper 12c - Test, jws : InitiateRetailMudharabaContract, jpr	
Elle Edit View Application Refactor Search Navigate Build Bun Team Iools Window Help	
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OrachestrationProcess.wsdl	- (4, Hill)
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InitiateRetailMuthanabaContract - Structure	
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Concepted by Oracle SOA Modeler version 11.1.1.7.0 at [3/4/15 6:5	
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Source Design	
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• 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)



FCUBS Process Flow Deployment

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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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get Navigation	-						<b>≜</b> • ⊠	Auto Refres	n off
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Click on the Target SOA server



	rprise Manager Fusion Midd	ware Control 12c	院 WebLogic Domain マ weblogic マ ・
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Target	Туре	Full Name	
soa-infra (soa_server1)	SOA Infrastructure	/Domain_soa_domain/soa_server1/soa-infra	

RACLE Enterprise Manager Fusion Middleware Control 12c		置く	VebLogic D	vomain v weblogic	Ŧ
soa-infra 0     #50A Infradructve + tboard SOA Foldes     Deployed Composites     Finv Instances     Enro Hospital				Nov 22, 2017 1:42:37 F	PM
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iew • Start Up Activate Set As Default Deptoy Undeptoy Redeptoy					
Composite	SOA Folder	Status	Mode	Deployed ? A	1
OpenCurrentAccount [3.0]	default	+	Active	Oct 13, 2017 12:05:2	2
ORGatewayService [1.8]	default	+	Active	Sep 27, 2017 9:07:04	4
ORGatewayService [1.7]	default	+	Retired	Sep 27, 2017 3:23:30	J
InitiateRetailLoanContractFCUBSORService [2.0]	default	+	Active	Sep 6, 2017 4:24:39 F	P
OpenSavingsAccount [3.0]	default	+	Active	Aug 30, 2017 4:50:46	3
OpenCurrentAccount [2,0]	default	1	Retired	Aug 9, 2017 1:16:48 F	ŕ
ORGatewayService [1.4]	default	+	Retired	Jul 7, 2017 6:28:24 F	P
InitiateFCUBSORRetailLoanContract [1.0]	default	1	Active	Jun 16, 2017 4:12:47	
CreateCorporateCustomer [1.0]	default	+	Active	Jun 13, 2017 2:27:59	ł
TermDepositForeClosure [1.0]	default	1	Retired	Jun 13, 2017 2:24:40	ł
OpenRetaiTermDepoit [1.0]	default	+	Active	Jun 13, 2017 2:18:07	
InitiateCorpMusharakaContract (9.0)	default	+	Active	May 18, 2017 2:50:23	3
CRPProcess [1.0]	default		Active	May 12, 2017 10:26:3	3
COLLATProcess [1.0]	default	1	Active	May 12, 2017 10:23:3	3
BPELCRPProcess [3.0]	default	1	Active	May 12, 2017 10:19:0	3
BFELCRPProcess [2:0]	default		Active	May 11, 2017 7:15:45	5
BFELCOLLATProcess [2:0]	default		Active	May 11, 2017 7:07:07	1.
BPELCRPProcess [1.0]	default	1	Active	May 11, 2017 6:59:01	1
BPELCOLLATProcess [1,0]	default	1	Active	May 11, 2017 6:34:57	7.
IndudekelalifurabahContract(8.0)	default	1	Active	Apr 26, 2017 4:01:33	۱.
Instatekeasitjarana Contract (3 u)	default	T	Active	Apr 25, 2017 12:07:1	1
InitiateCorplstisnaContract [1.0]	default	<b>•</b>	Active	Apr 18, 2017 11:06:17	I.

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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BPELLimitReview [1.0] O				Mar 29, 2016 3:55:20 PM IS
ctive Retire Shut Down Test Settings v				P Related Link
Ishboard Composite Definition Flow Insta Test Service rests Policies				
Components				
Name				Component Type
LCDMediatorProcess				BPEL
CreditApproval				Human Workflow
ExternalCreditRating				Human Workflow
LecisionProcess				BPEL
BPELLimitReviewProcess				BPEL
ManualRetry				Human Workflow
LimitReviewInitiationTask				Human Workflow
PendingWithCustomer				Human Workflow
CreditDecision				Human Workflow
Services and References				
Name	Туре	Usage	Total Messages	Average Processin Time (see
icdmediatorprocess_client_ep	Web Service	Service	0	0.00
BPELLimitReview_client_ep	Direct Binding	Service	0	0.00
DuplicateLimitReviewTaskChecker	JCA Adapter	Reference	0	0.00
ExternalRatingService	Web Service	Reference	0	0.00
LimitsHandoff	Web Service	Reference	0	0.00
Our temper Our menunite the Paralas	Web Service	Reference	0	0.00

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



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	e Manager Fusion Middleware Co	introl 12c			🔚 WebLogic Domain 🔻	🚼 SOA Infrastructure 🔻	weblogic 🔻
BPELLimitReview [: •;;; SOA Composite •	1.0] 0					Mar 2	9, 2016 3:57:10 PM IST 👈
Test Web Service Use this page to test any WSDL or V WSDL or WADL details, first select t	VADL, including WSDLs or WADLs the Service/Resource,then select the	at are not in the farm. T Port/Method, and then	Fo test a Web service, er select the Operation/Me	iter the WSDL or WADL an dia type that you want to te:	nd click Parse WSDL or WAE st. Specify any input parame	Test W DL. When the page refreshe ters, and click Test Web Se	Veb Service
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Endpoint URL http://ofss220216.in Request Response	.oracle.com:7403/soa-infra/services/	default/BPELLimitRevi	Edit Endpoint URL	]			
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Additional rest option     Input Arguments     Tree View      Enable Validat     SOAP Body	ion 🛛 Load Payload Browse		Save Payload				
View 💌 📄 Detach	-						
Name	Type	value					
p payload	рауюац						
Request Response							

 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



0	Dracle	JDeveloper 12c - InitiateFCUBSORRetailLoanContractApplication1.jws : InitiateFCUBSORRetailLoanContract.jpr : D:\Oracle12Clatest\Middleware\Oracle_Home\mywork\InitiateFCUBSORRetailLoanCont	ract\Ini	ti 🗖 🗖 🗖	x
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				978/201	



## 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.

FCUBS Process Flow Deployment





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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∃ Projects 💽 🖓 • 🖓 • 🐲 •	http://www.commons.com/</td <td>YM</td>	YM
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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



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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

Refer sample screen shot.



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0 🖂	<service name="client"></service>
1 🕀	 sinding type="ws">
2 🖻	<attribute name="port"></attribute>
3	<replace>http://xmlns.oracle.com/BIPUtility#wsdl.endpoint(BIPUtility/BIPUtility)</replace>
4	
5	
6	
7 🖃	<component name="BIFUtility"></component>
8 🖃	<property name="bpel.preference.DMS"></property>
9	<replace>IPM</replace>
0	
1 🖂	<property name="bpel.preference.BIUSERID"></property>
2	<replace>oM/guktOr4u2x93x20v0QA==</replace>
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6	<replace>N</replace>
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8 8	<property name="bpel.preference.DATASOURCE"></property>
9	<replace>jdbc/fcjdevDS</replace>
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1	
2 🗏	<reference name="BIPartnerLink"></reference>
3 🖻	<pre><binding type="ws"></binding></pre>
4 🖃	<attribute name="port"></attribute>
5	<replace>http://xmlns.oracle.com/oxp/service/v2#wsdl.endpoint(ReportService/ReportService)</replace>
6	
7 🖃	<attribute name="location"></attribute>
aconfia	olan - composite - component - property - replace -

## 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.

#### Refer sample screen shot.



## 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.

#### Refer sample screen shot.

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#### 5.6 <u>Config plan changes for</u> InitiateCorplsIamicContract 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
FOLIDS Dragon Flow Doployment	

#### bpel.preference.PROCESS\_TYPE\_LN

Set value as ' N' to initiate BPMN Process from Common Process

Refer sample screen shot.



#### 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.

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# 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 InitiateRetailMudharabaContract		
Deployment Actio	n	
Deployment Actio	Select a deployment action from the list below.	
Deploy Configuration     Summary	Deploy to Application Server Generate SAR File	
	Deploy this archive to SOA configured Application server(s)	
Heln	< Back Next > Finish 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	<b>X</b>
Deploy Configurat	tion	
Deployment Action	<ul> <li>InitiateRetailMudha</li> <li>Composite Revision</li> </ul>	irabaContract
SOA Servers SOA Servers Summary	Project: Current Revision ID: New Revision ID: SOA Configuration Do not attach initiateRetailMuce InitiateRetailMuce	InitiateRetailMudharabaContract 2.0 2.0 m Plan dharabaContract_cfgplanDev.xml tharabaContract_testing_124_cfgplan.xml
<	Mark composite revis Overwrite any existin Keep running insta Use the following SO	sion as default. Ig composites with the same revision ID. Ances after redeployment. A configuration plan for all composites: Browse
<u>H</u> elp		< Back Next > 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				Σ	×
Select Server						
O Deployment Action	Andiantian Canada					
	Application Servers:					
	IntegratedwebLogicServer					- 11
Select Server						
SOA Servers						
Summary						
	• Overwrite modules of the same p	3000				
	v overwrite modules of the same n					
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

Oeploy InitiateRetai	MudharabaContract				X
Select Server					
Deployment Action Deploy Configuration Select Server SOA Servers Summary	Application Servers: IntegratedWebLogicServer (domain u	nconfigured)			
	Overwrite modules of the same na	me			
<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

.



Name and Type		<b>F</b>
Rame 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	

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

•

O Create Application	Server Connection - Step 2 of 5		X
Authentication			<b>1</b>
Name and Type Authentication Configuration Test Einish	Specify a username and password to authenticate the connection. Username: weblogic Password:		
Help	< <u>B</u> ack <u>N</u> ext >	<u> </u>	Cancel

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



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Create Application	Server Connection - Step 3 of 5
Configuration	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         Port:       SSL Port:         8001       8002         Always use SSL         WebLogic Domain:         soa_server_bpel
<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. Test Connection Status: Testing MTTP Authentication success Testing 378-160 DomainRuntime success Testing 378-190-LOCAL success Testing 378-99-LOCAL success Testing 378-99-DEP-MGR success Testing 378-90-DEP-MGR
Help	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Cancel

• And Once the connection is created, click on Finish



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.		

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

.

Oeploy InitiateReta	ilMudharabaContract				X
Select Server					
Deployment Action Deploy Configuration Select Server SOA Servers Summary	Application Servers: IntegratedWebLogicServer (domain u IUT	nconfigured)			<b>* *</b>
$\langle $	✓ Overwrite modules of the same na	me			
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 Summary	Deployment Summary:
Help	< <u>B</u> ack <u>N</u> ext > <u>Finish</u> Cancel

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

Deployment	-Log ×	8
Q	Actio	ns 🕶
[03:14:15	DM] Deploying profile	-
[03:14:15	PM] Updating revision id for the SOA Project 'InitiateFCUBSORRetailLoanContract.jpr' to '1.0'	
[03:14:15	PM] Copying file:/D:/Oracle12Clatest/Middleware/Oracle_Home/mywork/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoANCONTRACT	nt:
[03:14:15	PM) Adding soaconfigplan.xml to archive.	
[03:14:15	[PM] Wrote Archive Module to D:\Oracle12Clatest\Middleware\Oracle_Home\mywork\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoANCONTAC	ta:
[03:14:15	FM] Deploying scs_InitiateFCUBSORRetailLoanContract_rev1.0.jar to partition "default" on server sos_server1 [http://ofss2221222.in.oracle.com:7403]	
[03:14:15	PM] Processing sar=/D:/Oracle12Clatest/Middleware/Oracle_Home/mywork/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoANCONTRACT/InitiateFCUBSORRetailLoANCONTRACT/InitiateFCUBSORRetailLoANCONTRACT/InitiateFCUBSORRetailLoANCONTRACT/InitiateFCUBSORRetailLoANCONTRACT/InitiateFCUBSORRetailLoANCONTRACT/InitiateFCUBSORRetailLoANCONTRACT/InitiateFCUBSORRetailLoANCONTRACT/InitiateFCUBSORRetailLOANCONTRACT/InitiateFCUBSORRetailLOANCONTRACT/InitiateFCUBSORREtailLOANCONTRACT/InitiateFCUBSORREtailLOANCONTRACT/INITIATEFCUBSORRETAILOANCONTRACT/INITIATEFCUBSORRETAILOANCONTRACT/INITIATEFCUBSORRETAILOANCONTRACT/INITIATEFCUBSORRETAILOANCONTRACT	Cos
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[03:14:15	PM] Preparing to send HTTP request for deployment	
[03:14:15	FM] Creating HTTF connection to host:ofss2221222.in.oracle.com, port:7403	
[03:14:15	FM] 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	. FM] Successfully deployed archive sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar with 0 warning/severe messages to partition "default" on server soa_server1 [ht	tp
[03:15:55	FM] Elapsed time for deployment: 1 minute, 56 seconds	
[03:15:55	PM) Deployment finished	
1		-
+		Þ.
Messages	💑 BPEL × Extensions × 🕼 SOA × Deployment ×	-
The 📕 Depk	avment - Log	

- 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



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OpenSaving Scout 1.0	default	+	Active	Aug 30, 2017 4:50:46
OpenCurrentAccount [2:0]	default	+	Retired	Aug 9, 2017 1:16:48 PI
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Initiate/FCUBSORRetail.com/contract [1.0]	default	+	Active	Jun 16, 2017 4:12:47 .
CreateCorporateCustomer [1.0]	default	+	Active	Jun 13, 2017 2:27:59
TemDepositForeClosure [1.0]	default	+	Retired	Jun 13, 2017 2:24:40 .
OpenRetaiTermDepost [1.0]	default	+	Active	Jun 13, 2017 2:18:07 .
IniliateCorpMusharakaCentract [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.
InflateRetailMurabahContract [6.0]	default	+	Active	Apr 26, 2017 4:01:33 .
InitiateRelaijjarahaContract (3.0)	default	+	Active	Apr 25, 2017 12:07:1.
InitiateCorplistisnaContract [1.0]	default	+	Active	Apr 18, 2017 11:06:17.



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# 7. Deploying a Single Composite application via Enterprise manager console

## 7.1 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.

## 7.2 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.



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

FCUBS Process Flow Deployment



Deploy InitiateFCUBSOR	Deploy InitiateFCUBSORRetailLoanContract				
Deployment Action					
Deployment Action	Select a deployment action from the list below.				
Summary	Generate SAR File Generate a SAR (.jar extension) file for the selected SOA project.				
Help	< Back Next > Einish Cancel				

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

Deploy InitiateFCUBSORI	RetailLoanContract	x			
Deploy Configuration	1				
Deployment Action	P d InitiateFCUBSORRetailLoanContract				
	Composite Revision ID	_			
🧅 <u>Summary</u>	Project: InitiateFCUBSORRetailLoanContract				
	Current Revision ID: 1.0	51			
	New Revision ID: 1.0	51			
	SOA Configuration Plan				
	🔿 Do not attach				
	InitiateFCUBSORRetailLoanContractTesting_cfgplan.xml				
	Use the following SOA configuration plan for all composites:				
$( \longrightarrow )$	Brows	se			
Help	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Cancel				

• Review the deployment summary screen

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• Click "Finish" to proceed with the deployment.

Deploy InitiateFCUBSORF	RetailLoanContract	x
Summary		
Deployment Action <u>Deploy Configuration</u> Summary	Deployment Summary: - JEE Module - Application Name: null - Module Type: ear - SOA Deployment Summary - Global Configuration Plan: none - Archive Location: /D:/Orade12Clatest/Middleware/Oracle_Home/mywork/InitiateFCUBSORRetailLoanContract - Archive Name: sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar	/Initia
Help	< <u>B</u> ack Next > Einish Cance	

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



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- Login to the enterprise manager console.
- Login to <a href="http://enstname>:enstraine">http://enstname>:enstraine</a>

LOGIN <b>ORAC</b> FUSIC	TO LE ENTERPRISE MAN IN MIDDLEWARE CON	AGER IROL 12c	
Domai * User Nam * Passwor	n Domain_soa_domain		
	Login		

- 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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	🕘 File Upload		⊽ C' » ≡
	COO - 🥻 « EXPNProcess > deploy	<ul> <li>✓ 4 Search deploy</li> </ul>	weblogic 🔻 🚥
🕈 soa-infra 🚯	Organize  Vew folder	Date modified Type	
Select Archive Select Target	BIPUtili BFELCC BFELCC BFFLCC BFFLC BFFLCC BFFLC BFFL	3/29/2016 4:23 PM Executabl 3/29/2016 4:25 PM Executabl	
Deploy SOA Composite: Sele This wizard lets you create a runtime environm a bundle containing revisions of multiple SOA Specify the archive and configuration plan to de	CRDCP CRDCP CreateC EQEXPr		Back Step 1 of 3 Next Cancel Oracle Enterprise Manager. A single composite revision or evisions at once.
Archive or Exploded Directory	EXPNPr desig 		provided in its application package
Archive is on the machine where this web     Browse	i deplo i Event i oracle ▼ 4 !!!		ропосо и по оруполнот раскадо.
Archive on the server where Enterprise Ma	File name: sca_EXPNProcess_rev1.2.jar	All Files (*.*)     Open     Cancel	
Configuration Plan	deployment settings for a SOA composite revision		
<ul> <li>No external configuration plan is required.</li> <li>Configuration plan is on the machine whee Browsee. No file selected.</li> <li>Configuration plan is on the server where it is a server where where it is a server where where it is a server where wher</li></ul>	re this web browser is running. Enterprise Manager is running.		

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



ORACLE Enterprise Manager Fusion Middleware Control 12c		weblogic	× I		
🕈 soa-infra 🚯					
Select Archive	Select Target	Confirmation			
Deploy SOA C	omposite: Selec	Farget @	Back Step 2 of 3 Next	Canc	el

#### 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	ontrol 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 fron	Close	not change" option below. You can set a different default revision later at
Deploy as default revision		
O not change the default revision		

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Composite	Status	Mode	Deployed ?		
InitiateRetailMurabahContract [1.0]	ŵ	Active	Apr 6, 2017 4:21:48 PM		^
EXPNProcess [1.0]	Û	Active	Mar 27, 2017 9:55:12 PM		
	Ŷ	Active	May 12, 2017 10:28:39 AM		
<ul> <li>CRPProcess [1.0]</li> </ul>	-	Retired	Aug 9, 2017 1:16:48 PM		
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CRPPiscess [1:0] OpenCurrentAccount [2:0] OpenCurrentAccount [3:0] TRUNProcess [1:0] CreateCorporateQuistomer [1:0] InitiateCorplianahContract [1:0]	0 0 0 0	Active Active Active Active	Oct 12, 2017 12,8520 PM Mar 27, 2017 95-847 PM Jun 12, 2017 22750 PM Act 12, 2017 02 Oct 1PM		ł
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• Check the deployed process from the enterprise manager console.



# 8. Deploying Multiple Composite application using JDeveloper

### 8.1 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.

## 8.2 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'.

Oracle JDeveloper 12c - InitiateFCUBS	350RRetailLoanContractApplication1.jws : InitiateFCUBSORRetailLoanContract.jpr	_ 0 <mark></mark>
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	SORConfigPlan xmlns:jca="http://platform.integration.oracle/blocks/adapter/fw/metadata" xmlns:wsp="http://schemas.	
B ImportLCProcessFlow	🖹 📤 Application Properties - D:\sushanth\FCUBSRelease\11.1\APP\FCUBSProcessFlow, iws	#cdata-section (XML)
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	Credentials	Property Insper
	Decide whether to migrate the following security objects.	
	V Users and groups	
	Help OK Cancel	
	Source Hist	
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	:35:21 PHI Elapsed time for deployment: 4 minutes, 53 seconds	
	:35:21 PH] Deployment finished	
	100:59 PHI >>>> Warning: Unable to determine the target platform from the Profile. Using default	
	00:59 PHI Target platform is (Weblogic 10.3).	
	:00:59 PH] Running dependency analysis	
	100:59 PH Building	
	001:19 MR Updating revision id for the SOA Project 'RetailLending.jpr' to '1.0'	
	:01:19 PH] Copying file:/D:/sushanth/FCUBSRelease/ll.1/BPEL/ProcessFlows/RetailLending/RetailLending/RetailLending_Cfgplan_d	
	:01:19 PMI Adding soaconfigplan.xml to archive.	
	:U1:20 MR Marste Archive module to <u>Primumantnikuppersessin AlBPEAPProcessiovs[BetailLendind]RetailLendind]deployiscs</u> Ret :01:20 MR Mansed time for deployment: 21 seconds	
Application Resources	:01:20 PH] Deployment finished	
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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.

CLUEDHOLSSENDU       Image: CLUEDHOLSSENDU <th>Application Applica</th> <th>BPELHelpe</th> <th>r.java   🔄 ImportLCProcessFlow_cf</th> <th>gplan_testing.xml ecomposite.xml OpenCurrentAccount_cfgplan_testing</th> <th>.xml</th> <th>Compo</th>	Application Applica	BPELHelpe	r.java   🔄 ImportLCProcessFlow_cf	gplan_testing.xml ecomposite.xml OpenCurrentAccount_cfgplan_testing	.xml	Compo
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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.

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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://chostname>:cport>/em">http://chostname>:cport>/em</a>
- Expand SOA >soa-infra and view all deployed applications

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# 9. Deploying MDS application using JDeveloper

#### 9.1 Introduction

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

#### 9.2 **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.

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- 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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FCUBS Process Flow Deployment

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



FCUBS Process Flow Deployment



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# 10. 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.







#### 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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System Status		
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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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FCUBS Process Flow Deployment

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

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0) Set proper JAVA_HOME.	
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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 Dracle BAM Import/Export Utility [Build 1, BAM Repository Version 2020] Copyrigh t © 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



FCUBS Process Flow Deployment [May] [2018] Version 14.1.0.0.0

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