FCUBS Process Flow Deployment Oracle FLEXCUBE Universal Banking Release 12.5.0.0.0 [September] [2017]





FCUBS Process Flow Deployment

Page 1 of 64

Table of Contents

		1
1. I	INTRODUCTION	3
1.1	BACKGROUND	3
1.2		
1.3	ACRONYMS AND ABBREVIATIONS	3
2. (ORACLE JDEVELOPER IDE	4
2.1		
2.2	OBTAINING JDEVELOPER IDE	4
3. (CREATING APPLICATION SERVER CONNECTION	5
3.1		
3.2	APPLICATION SEVER CONNECTION	5
4. I	LOADING FCUBS PROCESS FLOWS IN ORACLE JDEVELOPER	10
4.1	INTRODUCTION	10
4.2	LOADING THE PROCESS	10
5. I	DEPLOYMENT PROFILE AND CONFIGURATION PLAN	17
5.1	INTRODUCTION	
5.2		
5.3		
5.4		
5.5		
5.6 5.7		
	DEPLOYING A SINGLE COMPOSITE APPLICATION USING JDEVELOPER	
6.1		
6.2		
	DEPLOYING A SINGLE COMPOSITE APPLICATION VIA ENTERPRISE MANAGER (31	CONSOLE
7.1	INTRODUCTION	
7.2	DEPLOYING THE APPLICATION	
8. I	DEPLOYING MULTIPLE COMPOSITE APPLICATION USING JDEVELOPER	42
8.1	INTRODUCTION	
8.2		
9. I	DEPLOYING MDS APPLICATION USING JDEVELOPER	50
9.1	INTRODUCTION	
9.2		
10.	DEPLOYMENT AND CONFIGURATION OF ORACLE BAM REPORTS	53



Page 2 of 64

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

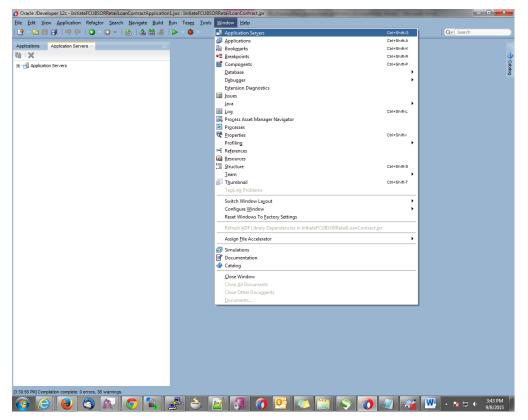
3.1 Introduction

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.

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



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



Oracle JDeveloper 12c - InitiateFCUBSORRetailLoanContractApplication1.jws : InitiateFCUBSORRetailLoanContract.jpr	- 6 <mark>- × -</mark>
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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



Oreate Application Ser	ver Connection - Step 1 of 3	23
Usage	0101010101010101010101010101	>
Vsage Name and Type Finish	Indicate how the application server will be used.	an
Help	< Back Next > Finish Cance	el

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



O Create Application Serve	er Connection - Step 2 of 3	×
Name and Type	01010101010101010101010	5
Name and Type	Specify a unique name and type for the connection. The name must be a valid Java identifier. Create connection in: IDE Connections <u>Connection Name:</u> Dev Connection <u>Type:</u> WebLogic 12.x	
Help	< Back Next > Finish Cano	:el

- Provide username / password to connect to the server
- The same username / password that was used while configuring the server is used.
- Click "Next" to proceed with the configuration

Create Application Service	ver Connection - Step 3 of 6	×
Authentication	01	5
Q Usage	Specify a username and password to authenticate the connection.	
Name and Type	Username:	
Authentication	weblogic	
Configuration	Password:	
U Test	•••••	
Ŭ Finish		
Help	< <u>B</u> ack <u>N</u> ext > Einish Ca	ncel

- 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

FCUBS Process Flow Deployment

Page 8 of 64



O Create Application Serv	r 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	< <u>B</u> ack <u>N</u> ext > 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

Test	
Usage 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 Testing J3R-160 DomainRuntime Testing J3R-160 Edit Testing MTTP Testing MTTP Authentication Testing J3R-88 Test
Help	< Back Next > Finish Cancel



4. Loading FCUBS Process flows in Oracle JDeveloper

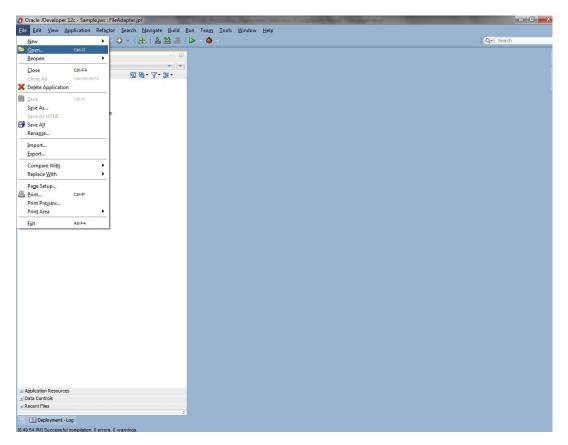
4.1 Introduction

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

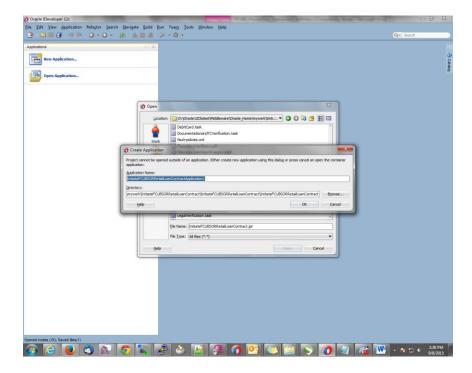
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FCUBS Process Flow Deployment

Page 10 of 64

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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.

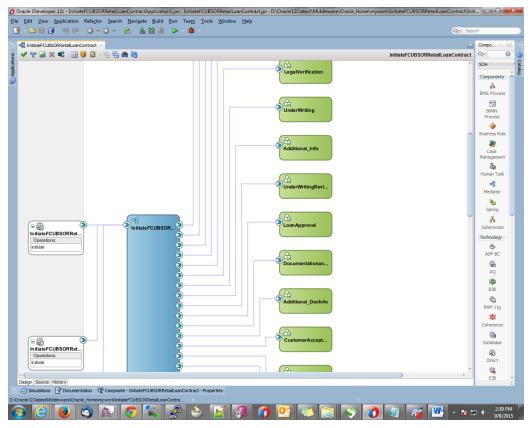


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FCUBS Process Flow Deployment

Page 11 of 64

- The process flow is loaded into JDeveloper and is displayed as given below
- Clicking on the "composite.xml" under "SOA Content" 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.

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FCUBS Process Flow Deployment Page 12 of 64

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

- 🖶 WebLogic Domain 🔻 👯 SOA Infrastructure 💌 🛛 weblogic 💌 ORACLE Enterprise Manager Fusion Middleware Control 12c **Target Navigation** -Mar 29, 2016 3:55:20 PM IST 👈 View 💌 ngs... 🔻 😪 BPELLimitReview [1.0] Tests Policies CIBLProcess [1.0] CIBLProcess [1.1] COLLATProcess [1.0] **Component Type** CorporateLending [1.0] BPEL CovenantPoller [1.0] Human Workflow CRDCProcess [1.0] Human Workflow CRDCProcess [1.1] BPEL CreateCorporateCustomer [2.0] BPEL CreateCorporateCustomer [3.0] Human Workflow ∎ CreateCorporateCustomer [3.1] Human Workflow CreditBureauHandler [1.0] Human Workflow DBUtility [1.0] Human Workflow DBUtility [1.1] DBUtility [2.0] EQFXProcess [1.0] Average Processing Time (sec) Total Messages Туре Usage EXPNProcess [1.0] ExportLCConfirmation [1.0] Web Service Service 0 0.000 ExportLCProcessFlow [1.0] Direct Binding Service 0 0.000 ExportLCProcessFlow [1.1] JCA Adapter Reference 0 0.000 ■ Contline Contline Control C Web Service Reference 0 0.000 ExternalValuation [6.0] 0.000 Web Service Reference 0 ImportLCProcessFlow [1.0] Web Service Reference 0.000 ImportLCProcessFlow [1.1] ■‡ ImportLCProcessFlow [4.0] InitiateCorpljarahContract [1.0] . InitiateCorpljarahContractService [1.0] InitiateCorpljarahContractService [1.1] "J" InitiateCornIslamicContract [1:0] •
- In the em console, click the process for which runtime wsdl is required and click on Test.





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CreditApproval				Human Workflow
ExternalCreditRating				Human Workflow
DecisionProcess				BPEL
BPELLimitReviewProcess				BPEL
ManualRetry				Human Workflow
LimitReviewInitiationTask				Human Workflow
PendingWithCustomer				Human Workflow
a CreditDecision				Human Workflow
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DuplicateLimitReviewTaskChecker	JCA Adapter	Reference	0	0.00
ExternalRatingService	Web Service	Reference	0	0.00
LimitsHandoff	Web Service	Reference	0	0.00
CustomerCommunicationService	Web Service	Reference	0	0.00

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





Page 14 of 64

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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.



Page 15 of 64

0	Oracle JDeveloper 12c - InitiateFCUBSORRetailLoanContractApplication1.jws : InitiateFCUBSORRetailLoanContract.pr : D\Oracle12Clatest\Middleware\Oracle_Home\mywork\InitiateFCUBSORRetailLoan	Contract\Ini	iti 🗖 🗖 🗖	x
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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 there are no replacement values that needs to be replaced in the project and that project can be deployed without any config plans.

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	Add search and replace rules for the component properties</td <td></td> <td></td>		
	For components and service/reference bindings, you can add policy references.		
	Example:		
	<component "="" name=""></component>		
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e	<attribute name="port"></attribute>		
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	<attribute name="location"></attribute>		
	<pre>creplace>http://sunbpd.iflexsolutions.com;8001/soa-infra/services/default/KYCCorporateReview!</pre>	1.0/client?WSDL >>	
8	<reference name="DBUtility"></reference>		
8	(binding type="vs")		
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	<attribute name="location"></attribute>		
	<pre>(replace>http://sunbpd.iflexsolutions.com:8001/soa-infra/services/default/DBUtility!1.0/clien</pre>	t?WSDL(/replace)	
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	<pre>dbinding type="us"></pre>		
8	<attribute name="port"></attribute>		
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	<attribute name="location"></attribute>		
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<processflow_name>_cfgplan_dev.xml

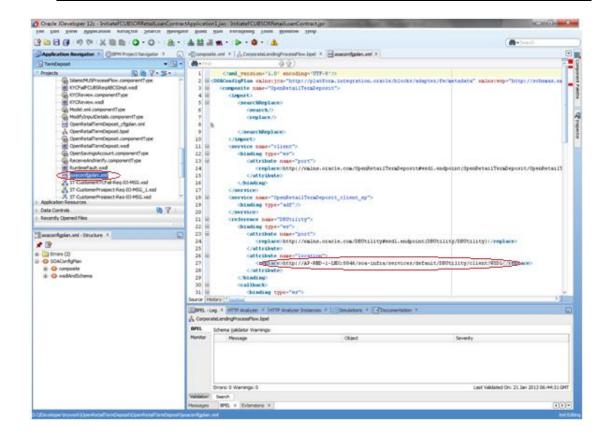
In the configuration plan we need to give the latest runtime wsdl location of the subprocesses if present. The runtime wsdl location is obtained as mentioned earlier from the em console.

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.



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.

FCUBS Process Flow Deployment

Page 18 of 64



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

Refer sample screen shot.



FCUBS Process Flow Deployment

Page 19 of 64

-	Find	
0	Θ	<pre><service name="client"></service></pre>
	8	<pre></pre>
-	8	<attribute name="port"></attribute>
3	-	<pre><creplace>http://xmlns.oracle.com/BIPUtility#wsdl.endpoint(BIPUtility/BIPUtility)</creplace></pre>
4		/attribute>
5		
6		
7	8	<component name="BIPUtility"></component>
8	B	<pre><pre>componenty name="bpcl.preference.DMS"></pre></pre>
9	-	<pre><replace>IPM</replace></pre>
20		
21		<property name="bpel.preference.BIUSERID"></property>
22		<pre><replace>oM/gukt0r4u2x93x20v00A==</replace></pre>
3		
4	8	<pre></pre>
24		<pre><rproperty name="bpel.preference.Birwb"></rproperty></pre>
26		
27	-	<property name="bpel.preference.IPMUSERID"></property>
28		<replace>oM/guktOr4u2x93x20v00A==</replace>
29	_	
30	Ξ	<property name="bpel.preference.IPMPWD"></property>
31		<replace>oM/guktQr4uksBebp+bgkg==</replace>
32	_	
33	•	<property name="bpel.preference.IPMAPPLICATION"></property>
34		<replace>OFS5</replace>
35		
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88		
39	8	<property name="bpel.preference.DOCPATH"></property>
10		<replace>/scratch/work_area/Dev122ProjectDebugs/</replace>
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15	8	<property name="bpel.preference.ENTITYENABLED"></property>
16		<replace>N</replace>
17		
18	8	<property name="bpel.preference.DATASOURCE"></property>
19		<replace>jdbc/fcjdevDS</replace>
50		
51		
		<reference name="BIPartnerLink"></reference>
53		 dinding type="ws">
		<attribute name="port"></attribute>
55		<replace>http://xmlns.oracle.com/oxp/service/v2#wsdl.endpoint(ReportService/ReportService)</replace>
56		
		<attribute name="location"> • composite • component • property • replace •</attribute>

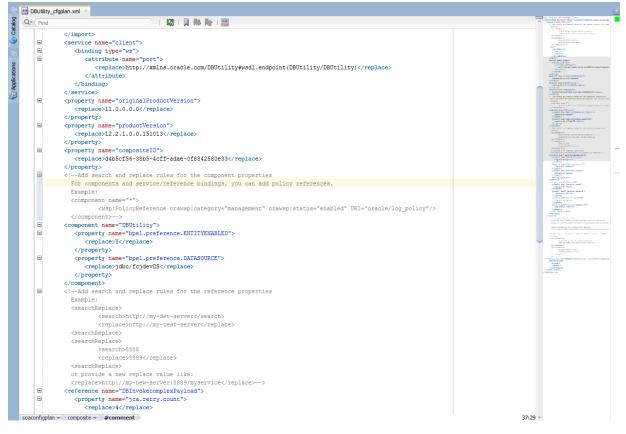
5.4 Config plan changes for DBUtility process.

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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	<replace>false</replace>		A SAMPAN AND THE REPORT OF A SAMPAN AND AND A SAMPAN AND A SAMPAN AND AND AND AND AND AND AND AND AND A
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	<pre><pre>cyproperty name="bpel.preference.ENTITYENABLED"></pre></pre>		Control and and optime other for the sense of points for department in the sense in the sense of the sequences and residence in the sense of part of the sense.
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	<pre><pre>cyproperty name="bpel.preference.DATASOURCE"></pre></pre>		Conservation and Standard Annual Conditional Condition
	<pre><replace>jdbc/fcjdevDS</replace></pre>		Company Chickness Inspects concretently on Quantum Symposic concretently on Quantum Symposic concretently on Quantum Symposic concretently on Quantum Symposic
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			Contact and the second
	<pre><pre>property name="bpel.preference.USERNAME"></pre></pre>		Comparing Comparing Annual Comparing Annual Comparing Annual Comparing Annual Comparing Annual Comparing Comparing Annual Comparing Comparing Annual Comparing Comparing
	<replace>BPELADMIN</replace>		Control of the contro
			Anglane All report Conserver Conserver
	<property name="bpel.preference.PASSWORD"></property>		Conservation Conservation Processing Statements Conservation Conservation (Statements)
	<replace>PASSWORD</replace>		Conjuntary memory and the memory energies and
19			Interest and Add to be and the set of the se
	<property name="bpel.preference.IDENTITYCONTEXT"></property>		Comparing and the company of the com
	<replace>jazn.com</replace>		Purpose second and fail or foreign 200. Instance for the first difficult seconds on MR1 and company. Second and foreign and the first second second second response for the first second second second second response for the first second second second second response for the first second second second second second response for the first second second second second second response for the first second second second second second second response for the first second
			Comparison Print Conference Street Street
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8	<component name="ValidationBPELProcess"></component>		Constantial constraints and agency of the second se
	<property name="bpel.config.transaction"></property>		Conjunction and the processing of the second
	<replace>required</replace>		Interest man which have the comparison
	<property name="bpel.preference.JNDI"></property>		Conference on the second secon
	<replace>jdbc/fcjdevDS</replace>		Contraction and the second sec
			A spinor of spinor in conserver fermion and family or instead attribution many sector and family or instead of the
8	<property name="bpel.preference.XSDVALIDATION"></property>		Contractor Contractor Contractor
	<replace>N</replace>		Angewitz war fight configuration that's Angewitz against any same community
			Contraction and the second sec
	<property name="bpel.preference.ENTITYENABLED"></property>		Comparison reports Comparison pergension and the Architecture Comparison of the Architecture
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	<property name="bpel.config.transaction"></property>		The second secon
	<replace>required</replace>		Advances and Phone approximates of the second and replace only the size describing prop the law spectrum.
			 Control and Control of Control
	<pre><pre>cyproperty name="bpel.config.oneWayDeliveryPolicy"></pre></pre>		 Communication and Article and
	<replace>async.persist</replace>		Comparison Coloring
			Contraction and Constitution and Annual Systems (Second Systems), Strategy and an and a strategy of the second systems (Second Systems), Solutions, approximation, Second Systems, Second
8	<pre><pre>cyproperty name="bpel.preference.ENTITYENABLED"></pre></pre>		 Controller State (proch- mighter dampers and a service analysis controlleger controlleger https://www.controlleger
	<replace>N</replace>		Owner with a constraint of the local second
			 Second and the legit contracts to a second the second of the legit contracts of the legit contracts of the legit contracts of the second of the legit contracts o
	<pre><pre>cyproperty name="bpel.preference.DATASOURCE"></pre></pre>		
			VERY AND A REPORT OF THE ADDRESS
onfigplai ce Histo	n - composite - component - property -	148:54 -	

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.

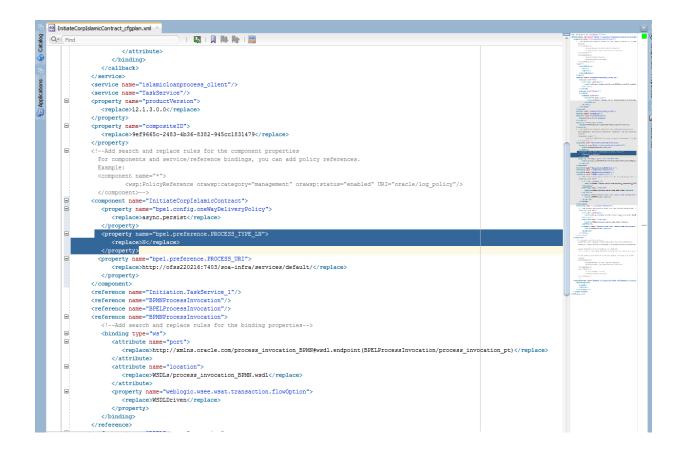
Set value as ' L' to initiate BPEL Process from Common Process



bpel.preference.PROCESS_TYPE_LN

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

Refer sample screen shot.



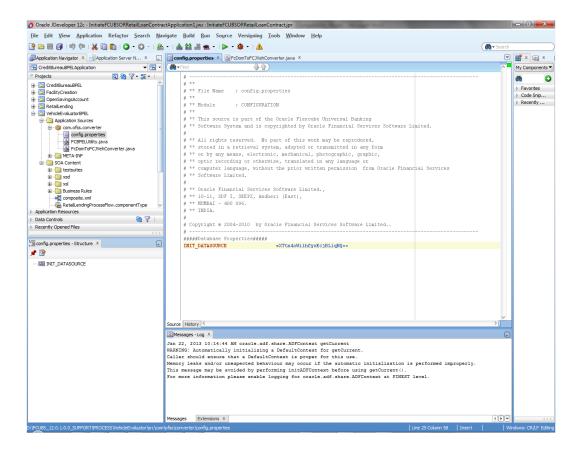
5.7 Updating the Datasource name

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.

FCUBS Process Flow Deployment

Page 23 of 64







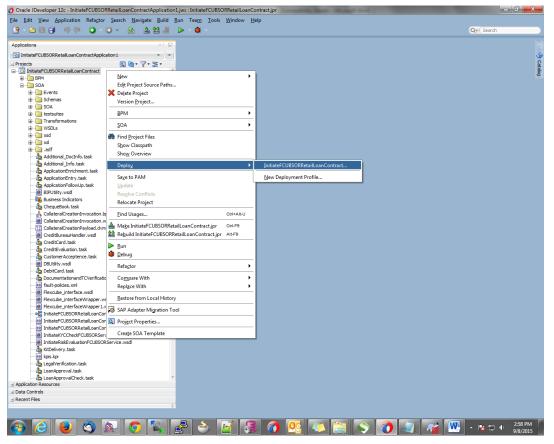
6. Deploying a Single Composite application using JDeveloper

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'



Page 25 of 64



Deploy InitiateFCUBSOR	RetailLoanContract
Deployment Action	
Deployment Action	Select a deployment action from the list below.
Select Server	Deploy to Application Server Generate SAR File
	Deploy this archive to SOA configured Application server(s)
Help	< Back Next > Einish Cancel

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



Deploy InitiateFCUBSOR	RetailLoanContract	x
Deploy Configuration		
P Deployment Action	P a InitiateFCUBSORRetailLoanContract	
Deploy Configuration	Composite Revision ID	îI
Select Server	Project: InitiateFCUBSORRetailLoanContract	
o Summary	Current Revision ID: 1.0	
	New Revision ID: 2.0	
	SOA Configuration Plan	
	🔘 Do not attach	
	InitiateFCUBSORRetailLoanContractTesting_cfgplan.xml	-
	Mark composite revision as default.	
	Overwrite any existing composites with the same revision ID.	
	Keep running instances after redeployment.	
	Use the following SOA configuration plan for all composites:	
())		Browse
Help	< <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
Select Server	
Deployment Action	Application Servers:
Deploy Configuration Select Server	IntegratedWebLogicServer IUT
Summary	
	✓ Overwrite modules of the same name
Help	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Cancel

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

Servers					
Deployment Action	Choos				ant to deploy this archive.
Deploy Configuration		SOA Server:	Partition:	Status:	Server URL:
	 Image: A set of the set of the	🚟 soa_server1	default	RUNNING	http://ofss2221222.in
<u>Select Server</u>					
SOA Servers					
Summary					
Help			< <u>B</u> ack	Next >	Finish Cancel

FCUBS Process Flow Deployment

Page 28 of 64

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

Deploy InitiateFCUBSOR	RetailLoanContract
Summary Deployment Action Deploy Configuration Select Server SOA Servers South Servers South Servers Deploy Configuration Select Server South Server Deploy Configuration Select Server South Server So	Deployment Summary: Image: Solution Name: null Module Type: ear SOA Deployment Summary Global Configuration Plan: none Mark Composite Revision as Default: Yes Overwrite Existing Composites: No Shared Metadata: No Archive Location: /D:/Oracle12Clatest/Middleware/Oracle_Home/mywork/InitiateFCUBSORRetailLoanContract_rev1.0.jar SOA Server: soa_server1 Image: Sol Server is not server instances: No Overwrite modules: Yes Deploy to all server instances: No Shared Library : No
Help	< <u>B</u> ack <u>N</u> ext > <u>Fi</u> nish Cancel

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

Deployment - Log	· · · · · · · · · · · · · · · · · · ·	8
Q	Action Action	ns 🔻
[03:14:15 PM]	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/InitiateFCU	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\InitiateFCUBSORRetailLoANCONTRACT\InitiateFCUBSORRetailLoANCONTRACT\InitiateFCUBSORRetailLoANCONTRACT\InitiateFCUBSORRetailLoANCONTRACT\I	ta:
[03:14:15 PM]	Deploying sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar to partition "default" on server soa_server1 [http://ofss2221222.in.oracle.com:7403]	
[03:14:15 PM]	Processing sar=/D:/Oraclei2Clatest/Middleware/Oracle_Home/mywork/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoAnCONTRACT/InitiateFCUBSORRetailLoAnCONTRACT/InitiateFCUBSORRetailLoAnCONTRACT/InitiateFCUBSORRetailLoAnCONTRACT/InitiateFCUBSORRetailLoAnCONTRACT/InitiateFCUBSORRetailLoAnCONTRACT/InitiateFCUBSORRetailLOANCONTRACT/InitiateFCUBSORRetailLOANCONTRACT/InitiateFCUBSORRetailLOANCONTRACT/InitiateFCUBSORRetailLOANCONTRACT/InitiateFCUBSORRetailLOANCONTRACT/InitiateFCUBSORRetailLOANCONTRACT/InitiateFCUBSORREtailLOANCONTRACT/InitiateFCUBSORREtailLOANCONTRACT/InitiateFCUBSORREtailLOANCONTRACT/InitiateFCUBSORREtailLOANCONTRACT/InitiateFCUBSORREtailLOANCONTRACT/InitiateFCUBSORRETAILOANCONTRACT	Cos
[03:14:15 PM]	Adding sar file - D:\Oracle12Clatest\Middleware\Oracle_Home\mywork\InitiateFCUBSORRetailLoanContract\InitiateFCUBSORRetailLoAnCONTRACTA	an(
[03:14:15 PM]	Preparing to send HTTP request for deployment	
[03:14:15 PM]	Creating HTTP connection to host:ofss2221222.in.oracle.com, port:7403	
[03:14:15 PM]	Sending internal deployment descriptor	
[03:14:15 PM]	Sending archive - sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar	
[03:15:55 PM]	Received HTTP response from the server, response code=200	
[03:15:55 PM]	Successfully deployed archive sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar with 0 warning/severe messages to partition "default" on server soa_server1 [ht	tp
[03:15:55 PM]	Elapsed time for deployment: 1 minute, 56 seconds	
[03:15:55 PM]	Deployment finished	
		-
(P
Messages 🕹 🖧 B	3PEL × Extensions × SOA × Deployment ×	-

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



arget Navigation					
iew 🔻		Test		Settings T	
Application Deployments	^			-	
SOA SOA		ests Po	licie	5	
🔺 👬 soa-infra (soa_server1)					
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AMLChecks [1.1]					
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■ 🚼 BIPUtility [1.1]					
• 🛟 BIPUtility [1.3]					
ata BIPUtility [1.4]					
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■‡ BPELCOLLATProcess [1.0]					
∎‡∎BPELCRPClosureProcess [1.0]					
■‡ BPELCRPProcess [1.0]					
∎‡∎ bpelcvnprocess [1.0]					
∎‡∎BPELLimitReview [1.0]					
∎‡∎CIBLProcess [1.0]					
∎‡∎CIBLProcess [1.1]					
∎ <mark>‡</mark> ª COLLATProcess [1.0]					
∎ <mark>,:</mark> ∎CorporateLending [1.0]					
∎ <mark>‡</mark> ª CovenantPoller [1.0]					
∎‡∎ CRDCProcess [1.0]					
CRDCProcess [1.1]					
∎‡ [®] CreateCorporateCustomer [2.0]					
∎‡ [®] CreateCorporateCustomer [3.0]					
• 🔚 CreateCorporateCustomer [3.1]					
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∎‡∎ DBUtility [1.0]					
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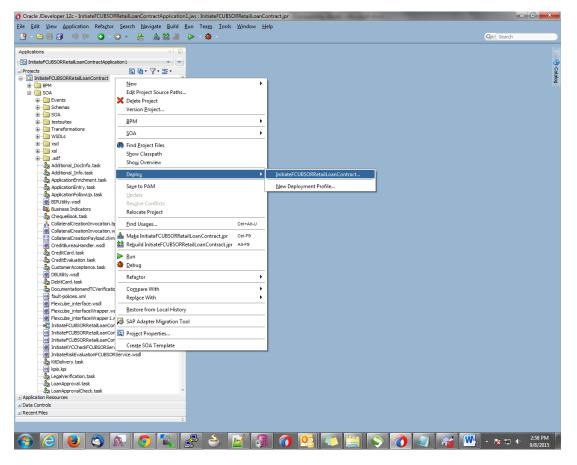
7. Deploying a Single Composite application via Enterprise manager console

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	RetailLoanContract	×
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 > Finish 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		
Deployment Action	unitiateFCUBSORRetailLoanContract	
Deploy Configuration	Composite Revision ID	-
🧅 <u>Summary</u>	Project: InitiateFCUBSORRetailLoanContract	
	Current Revision ID: 1.0	51
	New Revision ID: 1.0	
	SOA Configuration Plan	
	🔿 Do not attach	ור
	InitiateFCUBSORRetailLoanContractTesting_cfgplan.xml	
	Use the following SOA configuration plan for all composites:	
(\longrightarrow)	Brows	e
Help	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Cancel	

• Review the deployment summary screen

FCUBS Process Flow Deployment

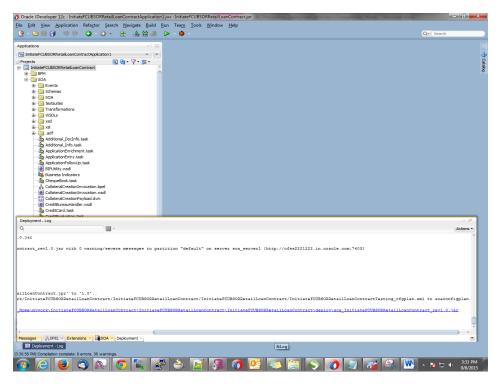
Page 32 of 64



• Click "Finish" to proceed with the deployment.

Deploy InitiateFCUBSORI	RetailLoanContract	×
Summary		
Deployment Action Deploy Configuration Summary	Deployment Summary: 	:t/Initia
Help	< <u>B</u> ack <u>N</u> ext > Finish Cano	el 🛛

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



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FCUBS Process Flow Deployment

Page 33 of 64

- Login to the enterprise manager console.
- Login to :enstremation-text-align: center-text-align: center-tex-align: center-text-align: center-text-align: center

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

- After logging in from the left pane Expand 'SOA'
- Right click on soa-infra
- Choose SOA Deployment -> and click "Deploy" option.



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Applie SOA	cation Deployments	•	Serve	Name Adm		orada com					
	Monitoring Logs	► E	Lis	Host ofss220216.in.oracle.com Listen Port 7401							
	SOA Deployment	Deploy		🗙 Delete	Contro	v Ey					
	Manage Partitions Work Manager Groups	Undeploy Redeploy		Delete		Cluster	Machine	State	Health	Listen Port	CPU ι
	Resequencing Groups	-	dmin)		+			Running	ОК	7401	
	Service Engines	•			1		new_Machine_1	Running	OK	7404	
	Bindings	▶ [1.0]			1		new_Machine_1	Running	ОК	7403	
	Services and References Business Events										
	SOA Administration	•									
	Security Administration	•									
	Target Sitemap										
	Target Information										
	CRDCProcess [1.1]										
	CreateCorporateCusto										
	CreateCorporateCusto										
	CreateCorporateCusto CreditBureauHandler [CreateCorporateCustomer [3.1]									
	CreditBureauHandler [" DBUtility [1.0]	1.0]									•
	BL BOUILT [1.0]	-		olumns Hidden	33						3 of 3

- Select the 'SAR' archive
- Select the deployment plan with which the application needs to be deployed as illustrated in the screen shot.



	🝓 File Upload		⊽ C' » ≡
		✓ 4y Search deploy	weblogic 🔻 🚥
🕈 soa-infra 🚺	Organize New folder	Date modified Type	
Select Archive Select Target	BIPUtiir BPELCC BPELCC Browners_rev1.0.jar BpmPrt Browners_rev1.2.jar Browners_rev1.2	3/29/2016 4:23 PM Executabl	
Deploy SOA Composite: Sele			Back Step 1 of 3 Next Cancel
This wizard lets you create a runtime environme a bundle containing revisions of multiple SOA o	CreditB FOEXPr		Oracle Enterprise Manager. A single composite revision or
Specify the archive and configuration plan to de Archive or Exploded Directory	🦀 EXPNPr		evisions at once.
You can deploy a Service archive (SAR) or a ZIP	i classe deplo	5	provided in its application package.
Archive is on the machine where this web Browse sca EXPNProcess rev	Event		
O Archive on the server where Enterprise Mar	File name: sca_EXPNProcess_rev1.2 jar	All Files (*,*) Open Cancel	
Configuration Plan			
	deployment settings for a SOA composite revision.		
 No external configuration plan is required. Configuration plan is on the machine wher 	e this web browser is running.		
Browse No file selected.			
Configuration plan is on the server where E	Enterprise Manager is running.		

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



ORACLE	Enterprise Manage	usion Middleware Control 12c		weblogic 🔻	
🕇 soa-infra 🕦					
0	•				
Select Archive	Select Target	Confirmation			
Deploy SOA C	omposite: Selec	Target 🛛	Back Step 2 of 3	Next	Cancel
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.



- Select default partition.
- Select the default revision option if this deployment needs to be the default one



soa-infra 🚺															
0 0) t Target	Confirmation													
Deploy SOA Composit	te: Confirm	nation 🞯									Back	Step 3 of	3 Next	Deploy	Cancel
You are deploying the following SC	DA composite re	vision. Click "Dep	oy" to continue (or click "Canc	cel" to cancel f	this operatio	n.								
Composite Name	EXPNProces:														
Composite Revision	1.2														
Archive Location	sca_EXPNPr	cess_rev1.2.jar													
Configuration Plan	No external p	an specified													
Deployment Target	/Domain_soa	_domain/soa_do	nain/soa_serve	er1											
SOA Partition	default														
Default Revision The above revision will be deploye any time in the Deployed Composi						nt default ver:	sion, please	choose the	e "Do not cł	nange" opti	on below. Y	ou can set a	different o	efault revisi	on later at
 Deploy as default revision Do not change the default rev 	ision														

• Click on "Deploy" to complete the deployment

FCUBS Process Flow Deployment



Page 38 of 64

	Control 12c	weblogic 💌 🚥
🕈 soa-infra 🕦		
0•		
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	Close	not change" option below. You can set a different default revision later at
Deploy as default revision		
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• Check the deployed process from the enterprise manager console





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FCUBS Process Flow Deployment

Page 41 of 64

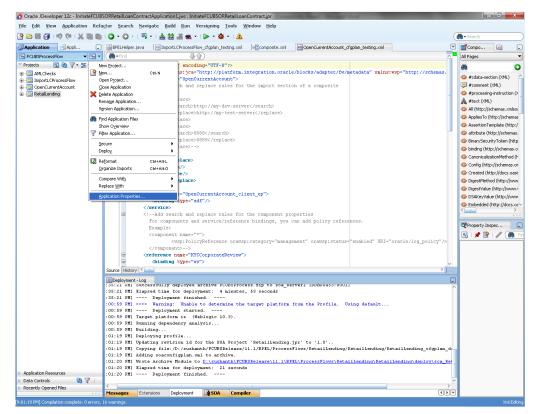
8. Deploying Multiple Composite application using JDeveloper

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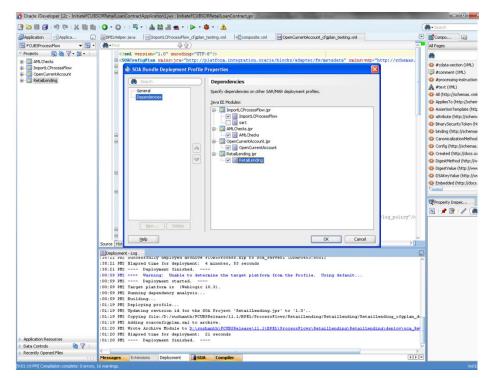
- The Create Deployment Profile dialog appears.
- In the Archive Type list, select SOA Bundle.
- In the Name field, enter a name and click 'OK'.

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FCUBS Process Flow Deployment



- 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.



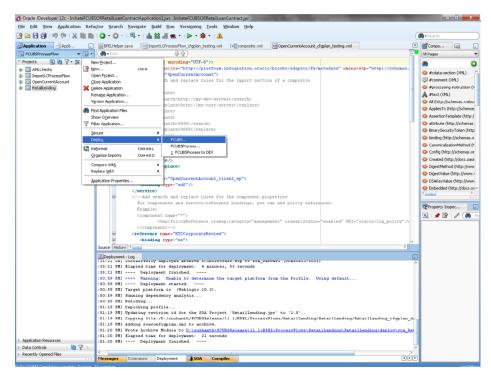
• Click OK to close the Application Properties dialog.

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FCUBS Process Flow Deployment

Page 44 of 64





• Select the Application menu again, then select Deploy > SOA_bundle_name

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

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Page 45 of 64

- 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.



FCUBS Process Flow Deployment

Page 46 of 64

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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.

FCUBS Process Flow Deployment

Page 48 of 64



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

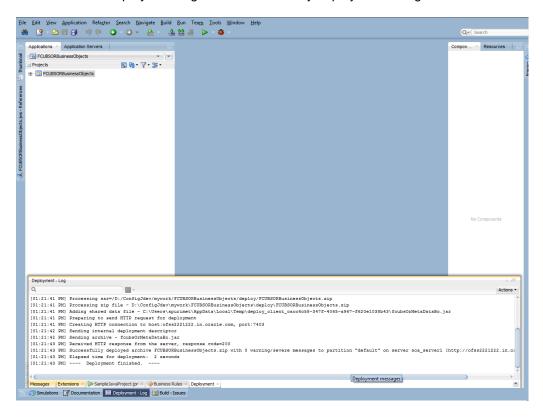
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FCUBS Process Flow Deployment

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



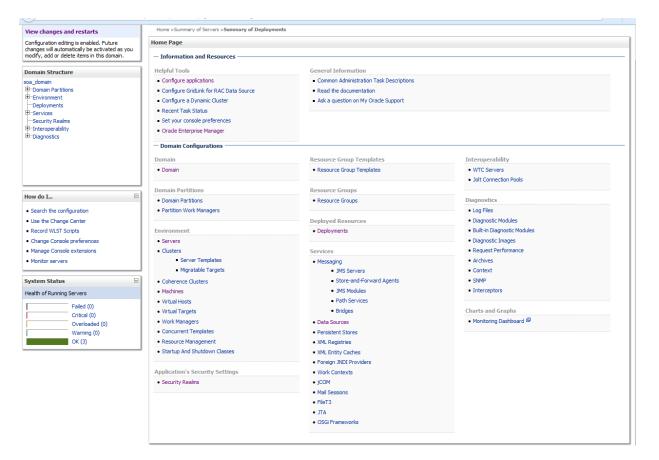
FCUBS Process Flow Deployment



Page 52 of 64

10. Deployment and configuration of Oracle BAM Reports

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



Page 53 of 64



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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changes will automatically be activated as you modify, add or delete items in this domain.	Configuration Targets Monitoring Control Security Notes	
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eoa_domain Domain Partitions Constructions Deployments	This page allows you to select the servers or clusters on which you would like to deploy this JDBC data source.	
Services Security Realms	Servers	
Interoperability Diagnostics	AdminServer	
	V bam_server1	
	✓ soa_server1	
How do I	Save	
Target JDBC data sources		
System Status 😑		
Health of Running Servers		
Failed (0) Critical (0)		
Overloaded (0) Warning (0)		
OK (3)		





5) Copy the FCUBS_BAM_Report.zip project from SVN (/SOFT/MAIN/OR/Process_infra/Reports/BAM) to your local system.

➢ ► Computer ► Data (D:) ► FCUBS12.2 ► 12.1.3 ►	Annual Contract of Contract			- + Search 12.1.3		
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FCUBS12.2 Name	Date modified	Туре	Size			
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FCUBS Process Flow Deployment



Deployment Page 56 of 64

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.

Computer > Data (D:) > FCUBS12.2 > 12.1.3 >				← ← Search 12.1.3		
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FCUBS Process Flow Deployment

Page 58 of 64



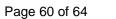
7) Open the FCUBS_BAM_Report.zip → Dataobject → Update the Schema element with the FCUBS schema name for SMTB_USER_TYPE_CONVERSION_VIEW.xml, ORVW_TRACK_EXPOSURE.xml, ORVW_FACILITY_EXPOSURE.xml, GetUtilsDB.xml files.

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

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D:\FCUBS12.2\12.1.3				/scratch/work_area/DEV/app			
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0 B of 1,506 KiB in 0 of 1				0 B of 1,506 KiB in 0 of 3		n S	FTP-3 🗐 22:02:22



Page 61 of 64

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

X:	
'/scratch/app/Tmv12c/Mddleware/soa/bar/bin/BAMCommandConfig.sml - abalasun@ofsi221222 - Editor - WinSCP	×
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<pre>taml version="1.0" encoding="urr-8" standalone="yes"></pre>	
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0) Set proper JAVA_HOME.	
bash-4.1\$ export JAVA_HOME=/usr/java/jdk1.7.0_60 bash-4.1\$ e	



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 [September] [2017] Version 12.5.0.0.0

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