FCUBS Process Flow Deployment Oracle FLEXCUBE Universal Banking Release 12.3.0.0.0 [December] [2016]





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
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

Run fmw_12.2.1.0.0_bpm_quickstart.jar to install jdeveloper with bpm enabled.



3. Creating Application server connection

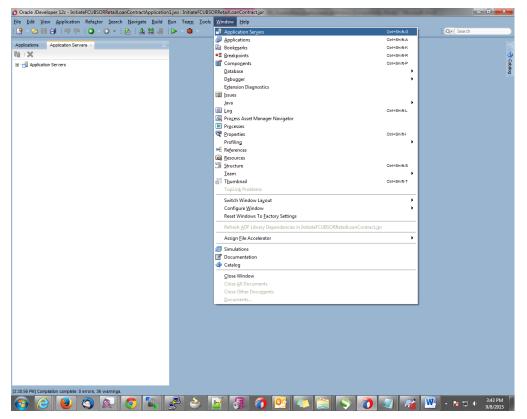
3.1 Introduction

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 - InitiateFCUBSORRetailLoanContractApplication:	jws : InitiateFCUBSORRetailLoanContract.jpr	- 6 - X -
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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



Page 7 of 64

O Create Application Serve	er Connection - Step 2 of 3	×
Name and Type		
Visage Name and Type Finish	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	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Cance	1

- 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 Ser	ver Connection - Step 3 of 6	X
Authentication		
	Specify a username and password to authenticate the connection.	
<u>Name and Type</u> Authentication	Username: weblogic	
<u>Configuration</u>	Password:	
U Test		
ù Finish		
<u>H</u> elp	< <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

FCUBS Process Flow Deployment



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O Create Application Serve	er Connection - Step 4 of 6
Configuration	
Usage Name and Type Authentication Configuration Test Finish	WebLogic Server connections use a host name and port to establish a connection. The Domain of the target will be verified WebLogic Hostname (Administration Server): ofss2221222 Port: SSL Port: 7401 2002
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

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

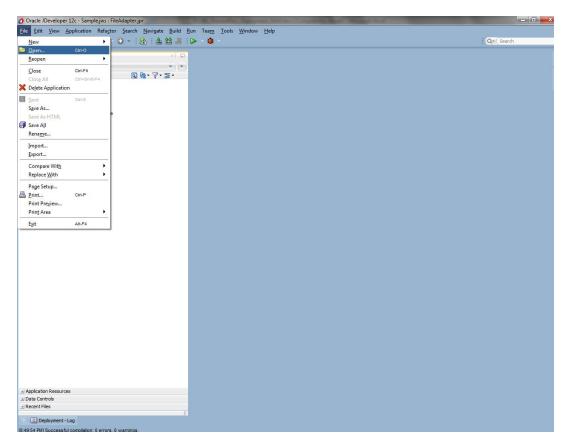
4.1 Introduction

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

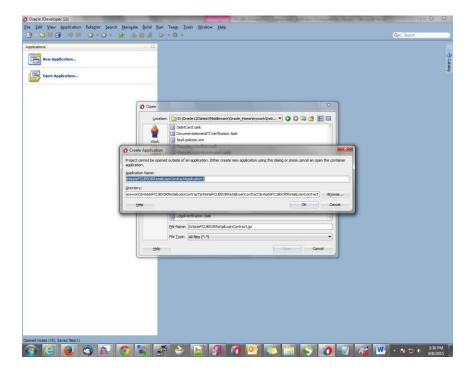
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FCUBS Process Flow Deployment

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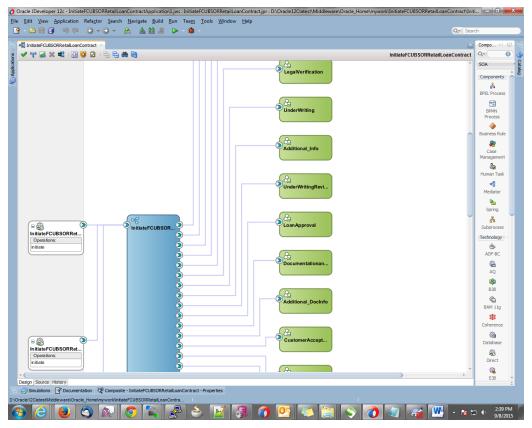
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	InitiateRiskEvaluationFCUBSORService.wsdl	
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- If this is the first Process flow that is being loaded JDeveloper will prompt for an Application Name and Location where the application file will be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



FCUBS Process Flow Deployment

- 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.

Oracle JDeveloper 12c - InitiateFCUBSORRetailLoanContr				_ 0 _ ×
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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). The Runtime wsdl is obtained from the em console as shown in the screen shot.

- KebLogic 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 Туре Usage Total Messages EXPNProcess [1.0] Time (sec) ExportLCConfirmation [1.0] Web Service Service 0 0.000 .ExportLCProcessFlow [1.0] Direct Binding 0 0.000 Service ExportLCProcessFlow [1.1] JCA Adapter Reference 0 0.000 ExportLCProcessFlow [4.0] Web Service Reference 0 0.000 ExternalValuation [6 0] Web Service Reference 0 0.000 ImportLCProcessFlow [1.0] 0.000 Web Service Reference 0 ImportLCProcessFlow [1.1] InitiateCorpljarahContract [1.0] InitiateCorpliarahContractService [1.0] InitiateCorpljarahContractService [1.1] 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
CreditDecision				Human Workflow
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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
CustomerCommunicationService	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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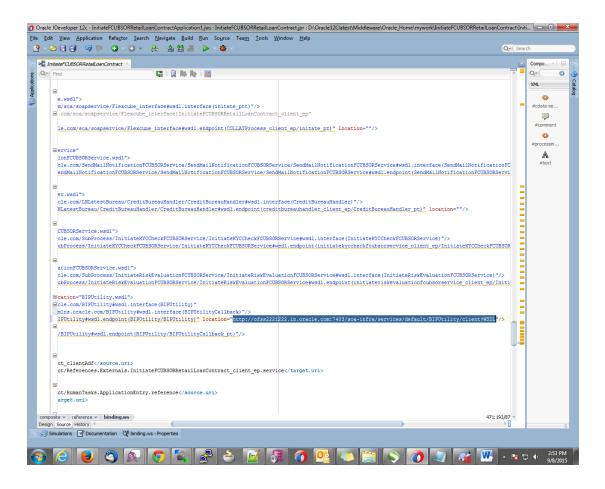


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• Now we replace this runtime wsdl in the composite.xml of the process as shown in the screen shot for that particular subprocess.





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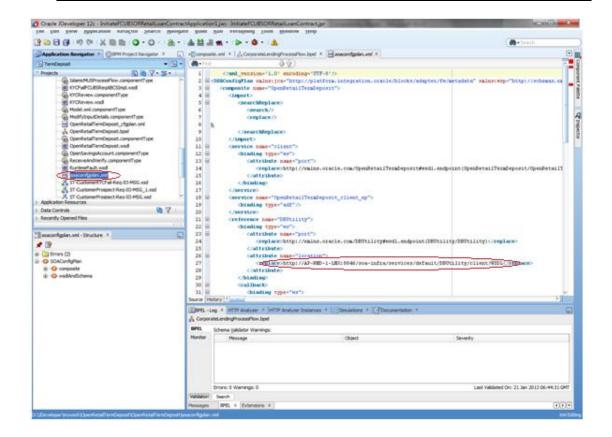
In the configuration plan we need to give the latest runtime wsdl location of the subprocesses if present. The runtime wsdl location is obtained as mentioned earlier from the em console.

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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.

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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.



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•	Find	
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18		<property name="bpel.preference.DATASOURCE"></property>
19		<replace>jdbc/fcjdevDS</replace>
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3		 dinding type="ws">
54		<attribute name="port"></attribute>
55		<pre><replace>http://xmlns.oracle.com/oxp/service/v2#wsdl.endpoint(ReportService/ReportService)</replace></pre>
56		
57		<attribute name="location"> composite component property replace</attribute>

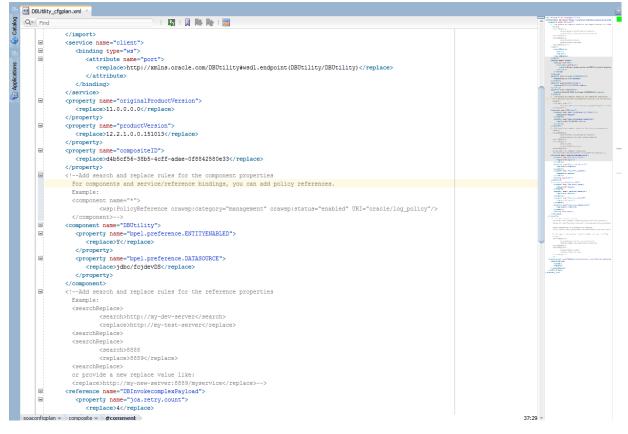
5.4 Config plan changes for DBUtility process.

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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	<property name="bpel.preference.DATASOURCE"></property>		COMPANY AND AND INCOME THE THE ADDRESS AND
configplar	n 🔸 composite 🔹 component 🔹 property 🔹	148:54	the second

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.

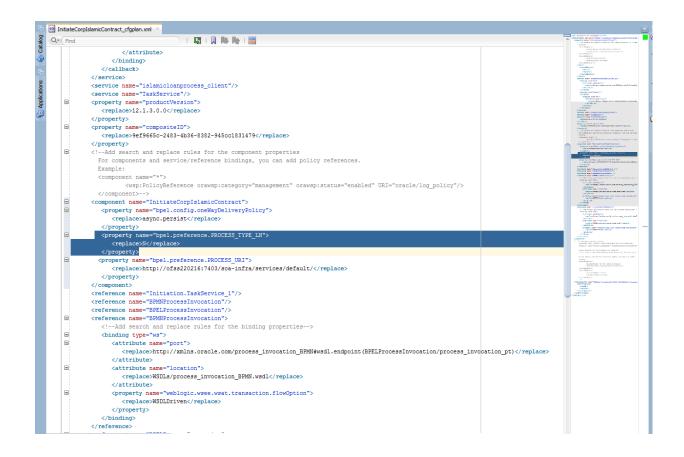
Set value as ' L' to initiate BPEL Process from Common Process



bpel.preference.PROCESS_TYPE_LN

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

Refer sample screen shot.



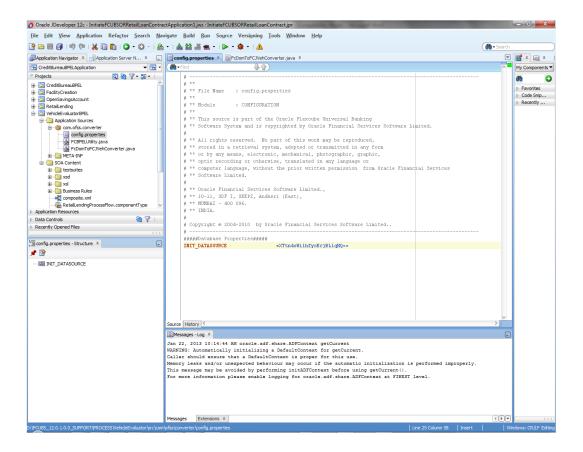
5.7 Updating the Datasource name

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.

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FCUBS Process Flow Deployment

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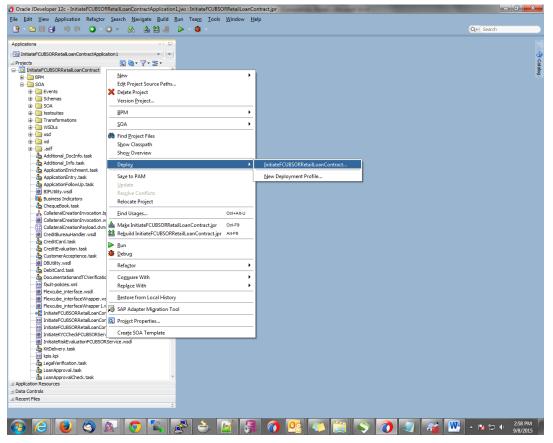
6. Deploying a Single Composite application using JDeveloper

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 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		
Peployment Action	며 a InitiateFCUBSORRetailLoanContract	
Deploy Configuration	Composite Revision ID	
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:	
(C))		Browse
Help	< 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				X
Select Server					
C Deployment Action	Application Servers:				+ 60
Deploy Configuration	IntegratedWebLogicServer IUT				
Select Server					
Summary					
	Overwrite modules of the same r	ame			
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.

A Servers					
Deployment Action	Choose	e the target SOA server(s) and corresponding	partitions to which you w	ant to deploy this archive.
		SOA Server:	Partition:	Status:	Server URL:
Deploy Configuration	v	🚟 soa_server1	default		http://ofss2221222.in
Select Server					
50A Servers					
Summary					

FCUBS Process Flow Deployment



• 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 Server South Se	Deployment Summary: JEE Module Application 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:/Orade12Clatest/Middleware/Orade_Home/mywork/InitiateFCUBSORRetailLoanContract_rev1.0.jar SOA Server: soa_server1 Weblogic Options Overwrite modules: Yes Deploy to all server instances: No Shared Library : No
Help	< Back Next > Finish Cancel

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

Deployment - Log	3 X
۹	Actions
[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/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoanContract/InitiateFCUBSORRetailLoAnCONT
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[03:14:15 PM]	Sending internal deployment descriptor
[03:14:15 PM]	Sending archive - sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar
	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 (http://www.archive.sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar with 0 warning/severe messages to partition "default" on server soa_server1 (http://www.archive.sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar with 0 warning/severe messages to partition "default" on server soa_server1 (http://www.archive.sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar with 0 warning/severe messages to partition "default" on server soa_server1 (http://www.archive.sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar with 0 warning/severe messages to partition "default" on server soa_server1 (http://www.archive.sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar with 0 warning/severe messages to partition "default" on server soa_server1 (http://www.archive.sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar with 0 warning/severe messages to partition "default" on server soa_server1 (http://www.archive.sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar with 0 warning/severe messages to partition "default" on server soa_server1 (http://www.archive.sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar with 0 warning/severe messages to partition "default" on server soa_server1 (http://www.archive.sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar with 0 warning/severe messages to partition "default" on server soa_server1 (http://www.archive.sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar with 0 warning/severe messages to partition "default" on server soa_server1 (http://www.archive.sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar with 0 warning/severe messages to partition "default" on server soa_server1 (http://www.archive.sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar with 0 warning/severe messages to partition "default" on server soa_server1 (http://www.archive.sca_InitiateFCUBSORRetailLoanContract_rev1.0.jar with 0 warning/severe warning/severe warning/severe warning/severe warning/severe
(03:15:55 PM)	Elapsed time for deployment: 1 minute, 56 seconds
[03:15:55 PM]	Deployment finished
•	
Messages 🛛 💑 B	PEL * Extensions * Belowert *

- 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



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arget Navigation				
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Application Deployments	*			
To SOA	: Tests F	Policie	S	
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CIBLProcess [1.0]				
∎‡∎ CIBLProcess [1.1]				
COLLATProcess [1.0]				
CorporateLending [1.0]				
∎‡∎ CovenantPoller [1.0]				
■‡ª CRDCProcess [1.0]				
■‡ª CRDCProcess [1.1]				
CreateCorporateCustomer [2.0]				
∎‡ <mark>∎</mark> CreateCorporateCustomer [3.0]				
CreateCorporateCustomer [3.1]				
∎ 🔚 CreditBureauHandler [1.0]				
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"Jª DBLIfility (1.1)	*			

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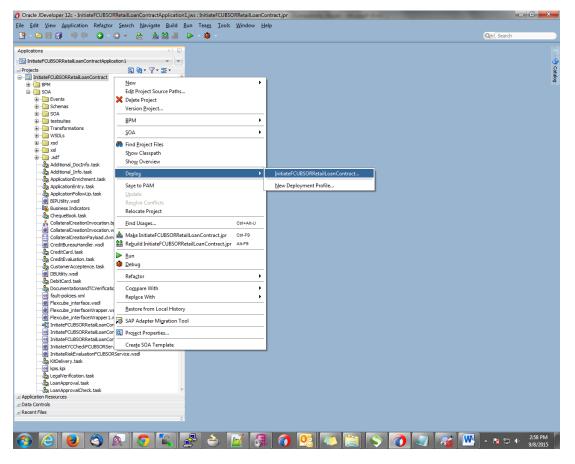
7. Deploying a Single Composite application via Enterprise manager console

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.



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

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

Deploy InitiateFCUBSORR	etailLoanContract				X
Deploy Configuration					
Peployment Action	P a InitiateFCUBSORR	etailLoanContract			
Deploy Configuration	🗆 Composite Revi	sion ID			
Summary	Project:	InitiateFCUBSORRe	tailLoanContra	ct	
	Current Revision ID:	1.0			
	New Revision ID:	1.0			
	🖃 SOA Configurati	on Plan			
	O Do not attach				
	 InitiateFCUBSOR 	RRetailLoanContract	Testing_cfgpla	n.xml	
	Use the following SOA	A configuration plan	for all composit	es:	
					Browse
Help		< <u>B</u> ack <u>N</u> e	ext >	Einish	Cancel

• Review the deployment summary screen

FCUBS Process Flow Deployment

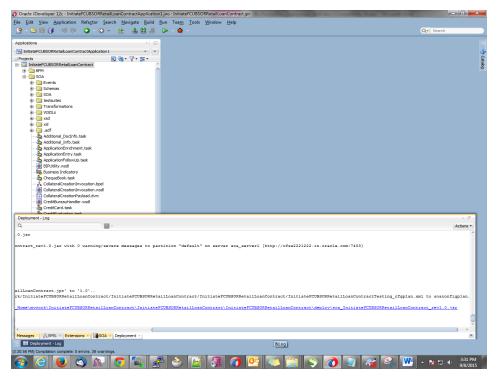
Page 32 of 64



• Click "Finish" to proceed with the deployment.

Deploy InitiateFCUBSORF	RetailLoanContract	×
Summary		
Deployment Action <u>Deploy Configuration</u> Summary	Deployment Summary: 	/Initia
Help	< Back Next > Einish Cance	

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



FCUBS Process Flow Deployment



- Login to the enterprise manager console.
- Login to :eports/em">http://ehostname>:eports/em

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

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- 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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iew 💌			-						Mar 29, 2016 4:10:23 PN	1 IST 🐧
Applic SOA	Home Logs	> E	Name A Host o	dminServer Ifss220216.ir	a.oracle.com					
	SOA Deployment	Deploy								
	Manage Partitions	Deploy Undeplo	> X Delet	contro	olv Eγ					
	Work Manager Groups	Redeplo		Status	Cluster	Machine	State	Health	Listen Port	CPU L
	Resequencing Groups	_	dmin)	+			Running	ок	7401	
	Service Engines	Þ		1		new_Machine_1	Running	ок	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	omer [2.0]								
	CreateCorporateCusto	omer [3.0]								
	CreateCorporateCusto									
	CreditBureauHandler	[1.0]								
	DBUtility [1.0]									

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



10.184.133.168:7401/em/faces/ai/emai_soa_	e File Upload		▼ C ≫ Ξ
ORACLE [®] Enterprise Manage	C C C C C C C C C C C C C C C C C C C	✓ 4y Search deploy	weblogic 🔻 🚥
🕈 soa-infra 🕦	Organize 🔻 New folder	III • 🔟 🔞	
	Jata Name	Date modified Type	
Select Archive Select Target	BPELCC sca_EXPNProcess_rev1.0.jar		
Deploy SOA Composite: Sele	UBLPrc GRDCP CreateC ≡		Back Step 1 of 3 Next Cancel
This wizard lets you create a runtime environme a bundle containing revisions of multiple SOA c	CreditB		g Oracle Enterprise Manager. A single composite revision or
Specify the archive and configuration plan to de	EQFXPr EXPNPr		revisions at once.
Archive or Exploded Directory	🎍 .desig 🌇 .rules		
You can deploy a Service archive (SAR) or a ZIP	Classe deplo		s provided in its application package.
Archive is on the machine where this web	Event		
Browse sca_EXPNProcess_rev	🕌 oracle 👻 4 🔤 👘	4	
Archive on the server where Enterprise Mar	File name: <mark>p:ca_EXPNProcess_rev1.2.jar</mark>	✓ All Files (*.*) ✓ Open Cancel	
Configuration Plan			-
The configuration plan is a file that contains the d	eployment settings for a SOA composite revision.		
No external configuration plan is required.			
\bigcirc Configuration plan is on the machine where	this web browser is running.		
Browse No file selected.			
\odot Configuration plan is on the server where Er	nterprise Manager is running.		

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



ORACLE* Enterprise Manager Fusion Middleware Control 12c	weblogic '	v
🕈 soa-infra 🚯		
Select Archive Select Target Confirmation		
Deploy SOA Composite: Select 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, navigate to a different WebLogic server or cluster shown below. If you wish to deploy to a different target,	click Cancel to exit this wizar	rd,
Deployment Target 🛛 🖡 /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 variable 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 be found in the SOA Administration section of the SOA Infrastructure target menu. [More infro]		

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



	e Manager Fu	sion Middleware Co	ntrol 12c										weblogic	v
🕇 soa-infra 🚺														
<u> </u>) t Target	Confirmation												
Deploy SOA Composite	e: Confirm	ation 🛛								Back	Step 3 of 3	Next	Deploy	Cancel
You are deploying the following SC	DA composite rev	ision. Click "Deploy"	to continue or click	"Cancel" to can	ncel this opera	ation.								
Composite Name	EXPNProcess													
Composite Revision	1.2													
Archive Location	sca_EXPNProc	cess_rev1.2.jar												
Configuration Plan	No external pla	n specified												
Deployment Target	/Domain_soa_	domain/soa_domai	n/soa_server1											
SOA Partition	default													
Default Revision The above revision will be deploye any time in the Deployed Composi						version, plea	se choose th	e "Do not cha	nge" option b	below. Yo	u can set a o	lifferent d	efault revisi	on later at
Deploy as default revision														
Do not change the default revi	ision													

• Click on "Deploy" to complete the deployment



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ORACLE Enterprise Manager Fusion Middleware	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 "Dep	oy" 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	n. 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 th any time in the Deployed Composites page that can be accessed fr		not change" option below. You can set a different default revision later at
Deploy as default revision	Close	
O Do not change the default revision		

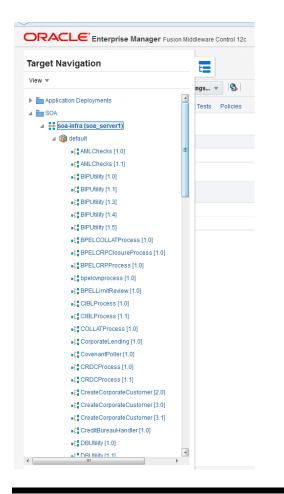




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View 💌		-	S					Related Links
•13 EX	(PNProcess [1.2]	ngs ▼	1201					& Related Links
	portLCConfirmation [1.0]	: Tests F	Policies					
	portLCProcessFlow [1.0]							
	portLCProcessFlow [1.1]							Component Type
•‡ª Ex	portLCProcessFlow [4.0]	=						BPEL
∎‡∎ Ex	ternalValuation [6.0]							DFEL
•‡ª Im	portLCProcessFlow [1.0]							
•‡ª Im	portLCProcessFlow [1.1]				Туре	Usage	Total Messages	Average Processing
•‡ <mark>ª</mark> Im	portLCProcessFlow [4.0]	-						Time (sec)
∎‡ <mark>8</mark> Ini	tiateCorpljarahContract [1.0]				Web Service	Service	0	0.000
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∎‡ <mark>8</mark> Ini	tiateCorpIsIamicContract [1.0]							
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•‡ª Ini	tiateCorpTawarooqContractService							
∎‡ <mark>8</mark> Ini	tiateKYCCheck [1.0]							
∎‡ <mark>8</mark> Ini	tiateKYCCheckFCUBSORService [1							
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	amicliarahAccount [1_0]	*						

• Check the deployed process from the enterprise manager console





8. Deploying Multiple Composite application using JDeveloper

8.1 Introduction

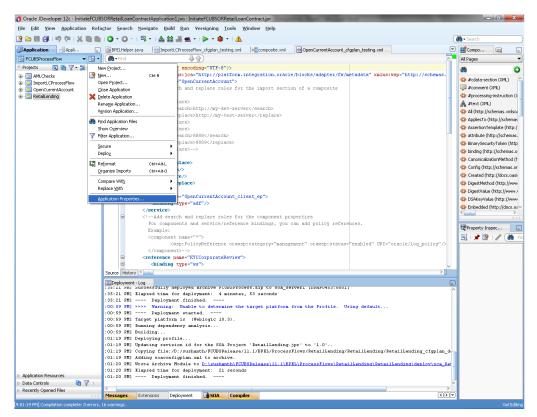
This section describes how to deploy a multiple SOA composite application with Oracle JDeveloper after completing updating of config plans with respective target environment replacement values.

8.2 Creating the Deployment Profile

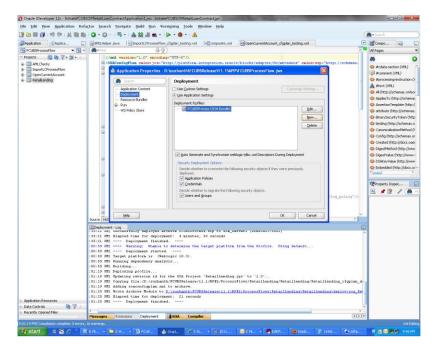
• From the application menu select 'Application Properties' as illustrated in the screen shot.



FCUBS Process Flow Deployment



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



- The Create Deployment Profile dialog appears.
- In the Archive Type list, select SOA Bundle.



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• In the Name field, enter a name and click 'OK'.

Oracle JDeveloper 12c - InitiateFCUB	JBSORRetailLoanContractApplication1.jws : InitiateFCUBSORRetailLoanContract.jpr	
Eile Edit View Application Refa	:factor Search Navigate Build Run Versioning Iools Window Help	
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AMLChecks ImportLCProcessFlow	E <sorconfigplan xmlns:jca="http://platform.integration.oracle/blocks/adapter/fw/metadata" xmlns:wsp="http://schemas.</td><td>♦ #cdata-section (XML)</td></tr><tr><td>ImportLCProcessHow OpenCurrentAccount</td><td>Application Properties - D:\sushanth\FCUBSRelease\11.1\APP\FCUBSProcessFlow.jws</td><td>#comment (XML)</td></tr><tr><td>B- C RetailLending</td><td>(Search) Deployment</td><td>#processing-instruction ()</td></tr><tr><td></td><td></td><td>#text (XML)</td></tr><tr><td></td><td></td><td>All (http://schemas.xmlsoi</td></tr><tr><td></td><td>Resource Click OK to create your new deployment profile and immediately open it to see its configuration.</td><td>AppliesTo (http://schemas</td></tr><tr><td></td><td>B - Run</td><td>AssertionTemplate (http:/</td></tr><tr><td></td><td>SOA Bundle</td><td>attribute (http://schemas.</td></tr><tr><td></td><td>New</td><td>BinarySecurityToken (http://www.securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityToken.com/pii/securityT</td></tr><tr><td></td><td>Pane: Delete</td><td>binding (http://schemas.o</td></tr><tr><td></td><td>PCUBSProcess</td><td>CanonicalizationMethod (F</td></tr><tr><td></td><td>Description:</td><td>Config (http://schemas.or</td></tr><tr><td></td><td>Creates a SOA Bundle for deploying multiple SOA Composites/Metadata Archives as one archive
file. The output archive file (.zip) contains one or more Composite archives (SARs) and/or one or</td><td>Created (http://docs.oasi</td></tr><tr><td></td><td>mos. The output anchive me (Lap) contains one or more Composite anchives (SARs) and/or one or
more Metadata Anchives (MARs).</td><td>DigestMethod (http://www-
DigestValue (http://www.</td></tr><tr><td></td><td></td><td>Ogestvalue (http://www.i
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	Source Hits OK Cancel	
	: Joici FNI Buccessfully deployed archive Flubbyrocess.zlp to Soa serveri (DUMFU45558001) :35:21 PMI Elapsed time for deployment: 4 minutes, 53 seconds	^
	:00:55 FMI >>>> Warning: Unable to determine the target platform from the Profile. Using default	
	:00:59 PM] Deployment started :00:59 PM] Target platform is (Weblogic 10.3).	
	100:59 MT Running dependency analysis	
	:00:59 PH] Building	
	:01:19 PH] Deploying profile	
	:01:19 PMJ Updating revision id for the SOA Project 'RetailLending.jpr' to '1.0' :01:19 PMJ Copying file:/D:/sushanth/FCUBSRelease/11.1/BPEL/ProcessFlows/RetailLending/RetailLending/RetailLending_cfgplan_d	
	:01:19 PM] Adding soaconfigplan.xml to archive.	
	:01:20 PHI Wrote Archive Module to D:\sushanth\FCUBSRelease\11.1\EPEL\ProcessFlows\RetailLending\RetailLending\deploy\sca_Re	
Application Resources	:01:20 PMI Elapsed time for deployment: 21 seconds :01:20 PMI Deployment finished	
Data Controls		V
Recently Opened Files	Messages Extensions Deployment #SDA Compiler	-
	Messages Extensions Deployment SOA Compiler	<u>ا</u>

- 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.



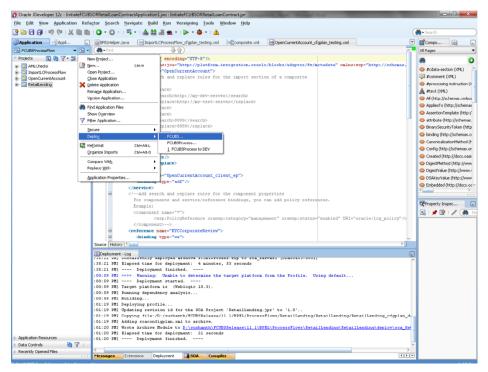
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	:00:55 PH] >>>> Warning: Unable to determine the target platform from the Profile. Using default	
	:00:59 PMI Deployment started	
	:00:59 PH) Target platform is (Weblogic 10.3).	
	:00:59 PM] Running dependency analysis	
	:00:59 PH] Building	
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• Click OK to close the Application Properties dialog.

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





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

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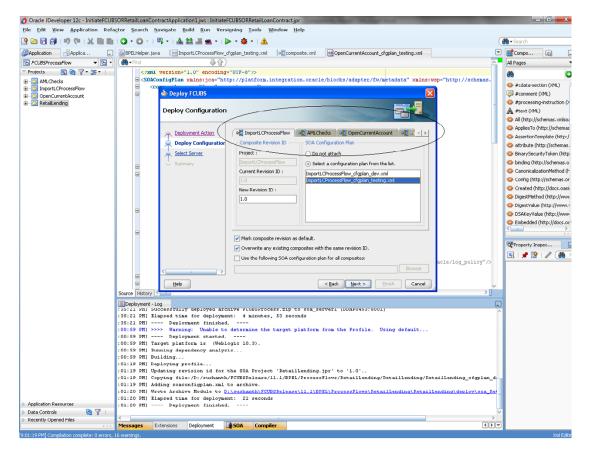
 Deployment configuration is done as illustrated in the below screen shot for each application which is displayed in the tab, application navigation can be done using the pointer provided at the end of the tab.

FCUBS Process Flow Deployment

Page 45 of 64



- 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.



- 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.

FCUBS Process Flow Deployment

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

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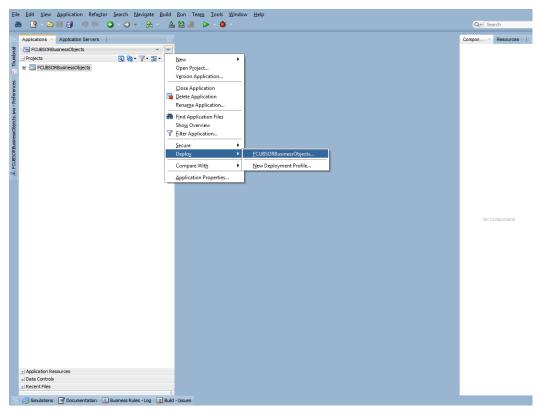
9. Deploying MDS application using JDeveloper

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.



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



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

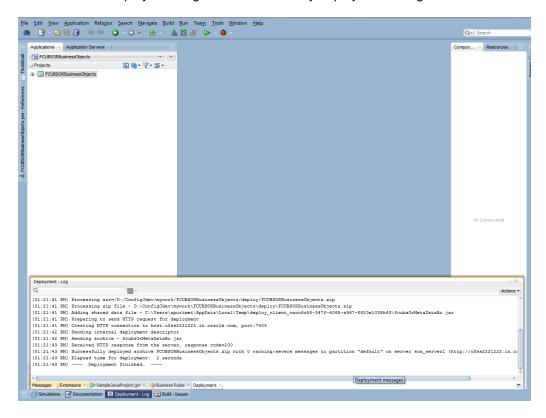
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Review the deployment log to see successfully deployed message as below •



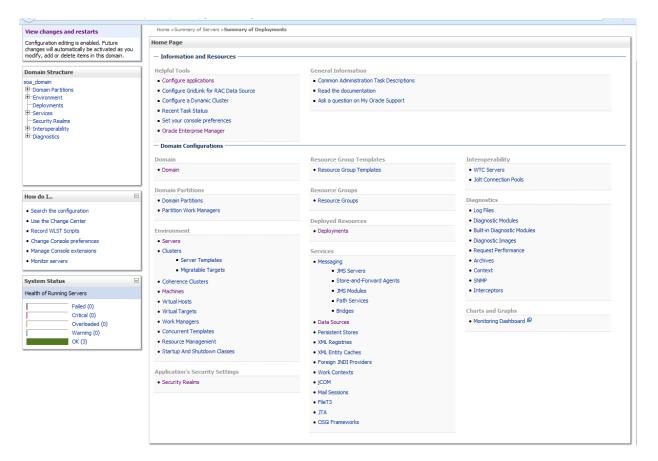
FCUBS Process Flow Deployment



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10. Deployment and configuration of Oracle BAM Reports

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







3) Click on the SOAData source.

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FCUBS Process Flow Deployment

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

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

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6) Open the FCUBS_BAM_Report.zip → Dataobject → Update the Schema element with the SOA_INFRA schema name for Wftask_Different_Stages.xml, CUBE_INSTANCE.xml, FCUBSDATAOBJECTS.xml files .

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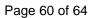
7) Open the FCUBS_BAM_Report.zip → Dataobject → Update the Schema element with the FCUBS schema name for SMTB_USER_TYPE_CONVERSION_VIEW.xml, ORVW_TRACK_EXPOSURE.xml, ORVW_FACILITY_EXPOSURE.xml, GetUtilsDB.xml files.

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

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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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FCUBS Process Flow Deployment

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 [December] [2016] Version 12.3.0.0.0

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