SOA Suite Setup for BPEL Process Flow Oracle Banking Corporate Lending Release 14.7.5.0.0 Part No. G16885-01 September 2024

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1. Preface

1.1 Background

This document provides an overview of configuring SOA suite for Oracle FLEXCUBE Universal Banking BPEL process deployment.

Refer Oracle documentation for HA (<u>FCUBS Switch Interface Gateway High Availability</u> <u>Configuration.pdf</u>) and other configuration patterns.

1.2 Audience

The audience for this document will be the development groups of BPEL/BPM process flows FLEXCUBE Universal Banking.

1.3 Organization

This manual is organized as follows:

• The document helps in download and installation of Oracle SOA 12c.

1.4 Acronyms and Abbreviations

Acronym/Abbreviation	Description
BPEL	Business Process Execution Language
НА	High Availability



2. Installing the JDK, WebLogic, RCU, SOA and domain Creation

2.1 Introduction

The download of software can be done from the below oracle edelivery portal https://edelivery.oracle.com

Refer to the Oracle certification matrix for qualified databases.

2.2 List of downloaded files

Search: Oracle JDK Latest JDK 1.8 Update 144 for Linux x86-64Search: Oracle Fusion Middleware 12c Infrastructure 12.2.1.2.0

V779122-01.zip - Oracle Fusion Middleware 12c Infrastructure 12.2.1.2.0

Search: Oracle Business Process Management 12.2.1.2.0

V789369-01.zip - Oracle Fusion Middleware 12c (12.2.1.2.0) SOA Suite and Business Process Management

List of platform which can be selected based on the installation platform

NOTE (Doc ID 1904280.1): As part of the new Release of SOA 12c, you need to get WebLogic 12c through the Oracle Fusion Middleware Infrastructure installation, which contains all required components for SOA. The standard WebLogic 12.2.1.0.0 Installer i.e. fmw_12.2.1.0.0_wls.jar, does not have the required JRF templates.

2.3 Install JDK

Login to WebLogic server host upload and install JDK package. Refer to the release certificate for the version of java JDK.

2.4 Installing WebLogic Server software

Installation of the software can be done from local machine or from the app server

- 1. Installation from the app server location:
- a) Login to the app server host and connect through putty
- b) Copy the zipped file into the app server in the location /scratch/app/<[app_name]>
- eg: /scratch/app/bpm12212
- c) Unzip the file with the command "unzip V779122-01.zip"



d) Once it is unzipped, fmw_12.2.1.2.0_soa.jar and fmw_12212_readme.htm will be extracted into the same path

e) execute the jar file to launch the installer for 12c SOA installation with the below command

"java -jar fmw_12.2.1.2.0_infrastructure.jar"

```
[oracle@wls12c-node1 ~]$ cd /scratch/app/fmwTemp1221/
[oracle@wls12c-node1 fmwTemp1221]$ unzip V779122-01.zip
Archive: V779122-01.zip
inflating: fmw_12.2.1.2.0_infrastructure.jar
[oracle@wls12c-node1 fmwTemp1221]$ java -jar fmw 12.2.1.2.0 infrastructure.jar
```

2. Installation from the local path:

a) Open the command prompt in "Run as Adminstrator" mode and move to the location where the zip file is available using the command "cd" followed by the path

eg: C:\Users\pribalac\Downloads

b) Unzip the file with the command "unzip V779122-01.zip"

c) Once it is unzipped, fmw_12.2.1.2.0_soa.jar and fmw_12212_readme.htm will be extracted into the same path

d) execute the jar file to launch the installer for 12c SOA installation with the below command

"java –jar fmw_12.2.1.2.0_soa.jar"

```
[C:\Users\pribalac\ ~]$ cd C:\Users\pribalac\Downloads\V779122-01
[C:\Users\pribalac\Downloads\V779122-01]$ unzip V779122-01.zip
Archive: V779122-01.zip
inflating: fmw_12.2.1.2.0_infrastructure.jar
[C:\Users\pribalac\Downloads\V779122-01]$ "C:\Program Files\Java\jdk1.8.0_144\bin\java" -jar
fmw_12.2.1.2.0_infrastructure.jar
```



Step 1:



Step 2:

Select the option based on the requirement:

If you do not want the auto updates, select the first option.

If you are applying patches, select the second option.



Welcome Auto Updates Installation Location Installation Type Prerequisite Checks Installation Summary Installation Complete Search My Oracle Support for Updates Username: Bassword: Proxy Settings Search	Brgwse
	Ţest Connection



Step 3:

Define the oracle home path

Oracle Fusion Middlew Installation Location	vare 12c Infrastructure Installation - Step 3 of 8
Y Welcome	Oracle Home:
Auto Updates	C:\Oracle\Middleware\Oracle_Home
Installation Location	Feature Sets Installed At Selected Oracle Home: View
Installation Type	
Prerequisite Checks	
Installation Summary	
i Installation Progress	
i Installation Complete	
	Oracle Home may only contain alphanumeric, underscore (_), hyphen (-) or dot(.) characters and it must begin with alphanumeric character.
Help	<back next=""> Enish Cance</back>

Step 4:

Select fusion middleware infrastructure

Installation Type	
Velcome Auto Undates Installation Location Installation Type Prerequisite Checks Security Undates Installation Summary Installation Progress Installation Complete	 Eusion Middleware Infrastructure Fusion Middleware Infrastructure Wth Examples Oracle Fusion Middleware 12c Infrastructure 12.2.1.2.0 Core Server Core Application Server 12.2.1.2.0 Web Login SCA 12.2.1.2.0 Web Login SCA 12.2.1.2.0 Web Login SCA 12.2.1.2.0 Web Login Clent Jars 12.2.1.2.0 Web Login Console Additional Language Help Files 12.2.1.2.0 CK WLS Config 12.2.1.2.0 Enterprise Manager Fusion Middleware Control 12.2.1.2.0 Database Support Thirdparty JDBC Drivers 12.2.1.2.0 Open Source Components Fusion Middleware Maren Support 12.2.1.2.0 JRF and Enterprise Manager
Help	< Back Next> Finish Cancel



Step 5:

rerequisite Checks		i		
Welcome Auto Updates		100%		
Installation Location	v	Checking operating system certification		
Installation Type		Checking Java version used to launch the installer		
Prerequisite Checks				
Installation Summary Installation Progress Installation Complete				
	Stop ⊕ ≪Che ⊕ ≪Che	Rerun Syp View Successfi Xing operating system certification king Java Version used to launch the installer	ul <u>T</u> asks	View Log

Step 6:

Optional based on installation requirement

ecurity Updates		
Velcome Auto Updates Installation Location Installation Type Pereculsite Checks Security Updates Installation Progress Installation Complete	Provide your email address to be in and initiate configuration manager. Email: Iwish to receive security upda My Gracle Support Password:	Informed of security issues, install the product . View details. Easier for you if you use your My Oracle Support email address/username. ates via My Oracle Support
Help		Dark Number Courts



Step 7:



Step 8:

nstallation Progress				FUSION			
Welcome Auto Updates Installation Location			0	%			
Installation Type Prerequisite Checks	9	Prepare Copy					
Security Updates Installation Summary	-	Generating Librarie Performing String S	s ubstitutions				
Installation Progress		Setup					
Installation Complete		Saving the inventor Post install scripts	у				
	View	v <u>M</u> essages	√ ⊻iew	Successful Tasks			√iew <u>L</u> o
	3	Sur	and the second	Hardv Engine	ware and sered to Wor	<mark>Softwa</mark> k Toget	are ther
11-les				[Terlet 1	0



Step 9:





2.5 Installing Oracle Fusion Middleware 12c software.

Installation of the software can be done from local machine or from the app server

- 1. Installation from the app server location:
- a) Login to the app server host and connect through putty
- b) Copy the zipped file into the app server in the location /scratch/app/<[app_name]>

eg: /scratch/app/bpm12212

c) Unzip the file with the command "unzip V789369-01.zip"

d) Once it is unzipped, fmw_12.2.1.2.0_soa.jar and fmw_12212_readme.htm will be extracted into the same path

e) execute the jar file to launch the installer for 12c SOA installation with the below command "java –jar fmw_12.2.1.2.0_soa.jar"

```
[bpm12212@whf00an1:~]$ cd /scratch/app/bpm12212/
[bpm12212@whf00an1:/scratch/app/bpm12212]$ unzip V789369-01.zip
Archive: V789369-01.zip
inflating: fmw_12.2.1.2.0_soa.jar
```

[bpm12212@whf00anl:/scratch/app/bpm12212]\$ java -jar fmw_12.2.1.2.0_soa.jar

2. 1) Installation from the local path:

a) Open the command prompt in "Run as Adminstrator" mode and move to the location where the zip file is available using the command "cd" followed by the path

eg: C:\Users\pribalac\Downloads

b) Unzip the file with the command "unzip V789369-01.zip"

c) Once it is unzipped, fmw_12.2.1.2.0_soa.jar and fmw_12212_readme.htm will be extracted into the same path

d) execute the jar file to launch the installer for 12c SOA installation with the below command java –jar fmw_12.2.1.2.0_soa.jar"



Step 1



Step 2:

Option need to be selected based on the requirement :

- If you don't want the auto updates, select the first option.
- If you are applying patches, select the second option.

Please select the below option based on the requirement:



Step 3:





Step 4:

Select BPM if the environment requires BPM process flow deployment



Step 5:

rerequisite Checks			(\cdot, \cdot)
Welcome Auto Updates		100%	
Installation Location		Checking operating system certification	
Installation Type	- V	Checking Java version used to launch the installer	
Installation Summary	-		
Installation Progress			
Installation Complete			
		Perun Skin View Successful Tasks	View Loo
	(Erob)		1.517 209
		cking operating system certification	
	un V Che	ching Java version used to launch the installer	



Step 6:



Step 7:

nstallation Progress			
Welcome		100%	
Auto Updates		100 /	
Installation Location	Prepare Prepare		
Installation Type	🖋 Сору		
Prerequisite Checks	Generating Libraries		
Installation Summary	Performing String Substitutions		
Installation Progress	V Linking		
Installation Complete	Setup		
	Saving the inventory		
	Post install scripts		
	View messages		view <u>L</u> og
	The second	Hardware and Software Engineered to Work Toge	are ther



Step 8:





2.6 Creating product schemas in Oracle database

The Repository Creation Utility (RCU) is the tool used to create schemas in a database. This tool is available once we've installed the Oracle Fusion Middleware Infrastructure software (Point 2).

Refer to <u>Oracle Fusion Middleware Creating Schemas with the Repository Creation Utility</u> for more information about the Repository Creation Utility.

• [oracle@wls12c-node1 fmwTemp1221]\$ cd /scratch/app/fmwTemp1221/Oracle/Middleware/Oracle_Home/bin/

• [oracle@wls12c-node1 bin]\$./rcu

Step 1:



Step 2:

Select the option as System Load and Product Load and click on Next





Step 3:

Define the host name port username and password for creating the RCU schemas in the database. The sys user required to create the rcu schemas.

pository Creation Utili	ty	
Welcome Create Repository	Database Type:	Oracle Database
Database Connection Deta Select Components Schema Passwords	Host Na <u>m</u> e:	whf00bx For RAC database, specify VIP name or one of the Node name as Host name. For SCAN enabled RAC database, specify SCAN host as Host name.
Map Tablespaces Summary	Port:	1521
Completion Summary	Service Name:	RCU_PDB_121
	Username:	895 User with DBA or SYSDBA privileges. Example:sys
	Password:	
	Role:	SYSDBA



pository Creation Utili	ty		
Welcome Create Repository	<u>D</u> atabase Type:	Oracle Database	
Database Connection Deta Select Components Schema Passwords	Host Na <u>m</u> e:	whf00bk For RAC database, specify VIP name or one of the Node name as Host name. For SCAN enabled RAC database, specify SCAN host as Host name.	
Map Tablespaces	Port:	1521	
Completion Summary	Service Name:	RCU_PDB_121	
	Operation cor	rpleted. Click OK to continue to next page.	
	-		

Step 4:

Define the prefix to be used for the schemas

pository Creation Ut	lity	
Welcome Create Repository	Specify a unique prefix for all schemas created in this session, so you can	easily locate, reference, and manage the schemas later.
Database Connection Details	Select existing prefix: BPM12212	
Select Components	© Conta any softy	
Schema Passwords	Alpha numeric only. Cannot start with :	a number. No special characters
Map Tablespaces		
Summary	Component	Schema Owner
	Oracle AS Repository Components	
	B AS Common Schemas	
	Common Infrastructure Services	DEV STB
	Oracle Enterprise Scheduler	ESS
	Oracle Platform Security Services	
	I Iser Messaning Service	LIMS
		IAL I
	Dâudit Senices Annend	
	Audit Cenices Viewer	
		NOO NEWER
	Dimetadata Services	MUS
	Liwebiogic Services	WLS
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		annices -
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elect Components Specify a unique prefix for all schemas created in this session, so you can easily locate, reference, and manage the schemas later. Create Repository Select Existing prefix: Database Connection Details Select existing prefix: Select Component Create new prefix: Select Component Repository Creation Utility - Checking Prerequisites Summary Completion Sum Audit Services 00:00.101(ms) Audit Services 00:00.101(ms) Audit Services 00:00.101(ms) Audit Services 00:00.101(ms) Oracle Platform Security Services 00:00.101(ms) Oracle Enterprise Scheduler 00:00.101(ms) Oracle Enterprise Scheduler 00:00.101(ms) Oracle Enterprise Scheduler 00:00.101(ms) Oracle Enterprise Scheduler 00:00.101(ms) Operation completed. Click OK to continue to next page. Etermine		Select Con	nponents - Step 3 of 7	
Welcome Specify a unique prefix for all schemas later. Create Repository Select Austring prefix: Database Connection Details Select existing prefix: Select Component Create new prefix: Schema Passwords Repository Creation Utility - Checking Prerequisites Schema Passwords Metadata Services Map Tablespaces O0:00.101(ms) Summary Metadata Services Completion Summ Metadata Services Audit Services Append 00:00.102(ms) Viser Metagaing Service 00:00.102(ms) Viser Metagaing Services 00:00.102(ms) Viser Metagaing Services 00:00.101(ms) Viser Metagaing Services 00:00.102(ms) Viser Metagaing Services 00:00.101(ms) Oracle Platform Security Services 00:00.101(ms) Sola Infrastructure Sola Infrastructure Services Operation completed. Click OK to continue to next page. Messages:	elect Components	5		
Oracle Emterprise Scheduler O0:00.105(ms) SOA Infrastructure O0:00.101(ms) Ocion.101(ms) Operation completed. Click OK to continue to next page. Operation completed. Click OK to continue to next page. Messages:	Velcome Create Repository Database Connection D Select Component Cschema Passwords Cschema Passwords Completion Summ	Specify a unique prefix for a manage the schemas later. Select existing prefix Select existing prefix Create new prefix: Repository Creatio Metadata Services Audit Services Append Audit Services Append Audit Services Service User Messaging Service WebLogic Services	DEV In Utility - Checking Prerequisites 00:00.101(ms) 00:00.101(ms) 00:00.102(ms) 00:00.102(ms) 00:00.101(ms) 00:00.102(ms) 00:00.101(ms) 00:00.101(ms)	y locate, reference, and special character: ND R
		Oracle Enterprise Scheduler SOA Infrastructure Common Infrastructure Services peration completed. Click OK to contin Messages:	00:00.105(ms) 00:00.101(ms) 00:00.101(ms)	

Step 5:

Define the password for the schemas.

epository Creation Ut	ility		
Welcome	Define passwords for m	ain and auxiliary schema users.	
Create Repository	Use same passwords	s for all schemas	
Database Connection Details	Decouverds		
Select Components	Passworu.	Alpha numeric only.Cannot start with a number.	
Schema Passwords		No special characters except: \$, # ,	
Map Tablespaces			
Summary	Confirm Password:	••••••	
Completion Summary	🔵 Use <u>m</u> ain schema pa	sswords for auxiliary schemas	
	O Specify different part	sswords for all schemas	

Note: It is important to remember the password or passwords that you enter during the process.

Step 6:



cepository creation of	ility			
Welcome <u>Create Repository</u> <u>Database Connection Details</u> Select Components	Default and temporary tablespaces for To create new tablespaces or modify	the selected components appear in the tab existing tablespaces,use the Manage Tablesp	le below. aces Button	Manage Tablespaces
Schema Passwords	Component	Schema Owner	Default Tablesnare	Temp Tablespace
Man Tablesnases	Common Infrastructure Services	DEV_STB	*DEV_STB	*DEV_IAS_TEMP
	* Default tablespaces (specified in the	configuration files) are to be created upon o	ionfirmation.	

Step 7:

Welcome - Step 6 of 8	Fights multipl multipl Has	- 1204-120		
Repository Creation Uti	lity		FUSION M	IDDLEWARE
Welcome Create Repository Database Connection Details Select Components	Default and temporary tablespaces for the selected or To create new tablespaces or modify existing tablesp	omponents appear in the tabl aces,use the Manage Tablesp.	le below. aces Button	Manage Tablespaces
Schema Passwords	Component	Schema Owner	Default Tablespace	Temp Tablespace
Man Tablesnaces	Common Infrastructure Services	DEV_STB	*DEV_STB	*DEV_IAS_TEMP
	Default tablespaces (specified in the configuration f	Utility - Confirmation Utility - Confirmation est that do not already exist i schemas will be created. eate tablespaces. o return to the wirard. OK Car les) are to be created upon c	n ncel	
Нер	1		< <u>B</u> ack <u>N</u> ext	> Enish Cancel



ository Creation Utility		
Velcome reate Repostory tatabase Connection Details vielect Components whema Passwords an Tablespaces	effx for all schemas created in this session, so you can easily loca ag prefix: BPH12212 BFFfx: DEV Alpha numeric only. Cannot start with a number	ite, reference, and manage the schemas later.
Component		Schema Owner
Oracle AS	Repository Components	
Bas Co	nmon Schemas	
Repositonu	reation Utility Charking Proraguicites	DEV_STB
Repository	reauon ounty - checking Pferequisites	ESS
Checking Co	nnonent Prerequisites	UMS
Comm	n Infracturatura Sanicas	101(mn)
Comm	miniasiruciure Services 00:00.	IAU_APPEND
		IAU_VIEWER
	malated. Circle OV to another to another	MDS
Operation co	mpiereu, ciick OK to continue to next page.	WLS
		QK

Step 7:

Welcome - Step 7 of 8	Rights makes makes	/ reality) reality	A reality's reality	
Repository Creation Uti	lity		FUSIO	
Velcome Create Repository Database Connection Detais Select Components Schema Passwords Map Tablespaces Summary Completion Summary	Database details: Host Name Port Service Name Connected As Operation Prefix for (prefixable) Schema Owners	whf00bix 1521 RCU_P0B sys System al DEV Schemp Owner	_121 nd Data Load concurrently Tablasnare Tyme	Tahlesnare Nama
	Common Infrastructure Services	DEV_ST8	Default Default Temp Additional	TRUEADED HAITE
	Save Response File			
Help			< <u>B</u> ack N	ext > <u>C</u> reate Cancel



Note: Verifying Schema Version Numbers in the database where RCU is executed

SQL> select comp_name, version from schema_version_registry;

6	3	ć	566?						
L	SŲ	L	Output Statistics						
	SE	LE	CT comp_name, version FRO	M	Schema_V	/ers	sion_R	egis	stry
			—						
ľ	-	-		-		_			
	H	╬	- A + - / > > M		/ 🏫 🤝		. #		
		≓ '					P		•
Н	_	-		_	VERSION				
Н	▶	1	Audit Service		12.2.1.0.0				
Н		2	Audit Service Append		12.2.1.0.0				
н		3	Audit Service Viewer		12.2.1.0.0				
		4	Metadata Services		12.2.1.0.0				
		5	Oracle Platform Security Services		12.2.1.0.0				
		6	SOA Infrastructure Services		12.2.1.0.0				
Н		7	User Messaging Service		12.2.1.0.0				
		8	WebLogic Services		12.2.1.0.0				
Н	-		3						
Н									
Н									



2.7 <u>WebLogic Server Domain Configuration</u>

Step 1:

Fillen	usion Middlewaı	re Configuration Wizar	d - Page 1 of 8	- ×
Configuration Type				
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	What do you want © Create a new <u>d</u> Domain Location: Create a new doma	to do? Iomain sting domain ['Oracle/Middleware/Oracle_Ho	ome/user_projects/domains/ws	_domain] Browse
Help			< <u>Back</u> Next >	Einish Cancel



Step 2:

Domain creation template

For BPEL only domain

 ${igsimus}$ Based on the requirement select the Oracle Business Activity Monitoring (BAM) check box.



For BPM enabled domain (_If BPM process flows deployment is required then we have to select the Oracle BPM Suite – 12.2.1)

Templates	on Middleware Configuration Wizard - Page 2 of 12 ×
Create Domain Templates Application Location Administrator Account Demain Mode and JDK Databases Configuration Types (DBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Oracle Domain Using Product Templates: Template Categories: All Templates Available Templates Available Templates Oracle BFM Suite - 12.2.1 [soa] Oracle Enterprise Scheduler Service Basic - 12.2.1 [gracie_common] Oracle Enterprise Manager Flugin for ESS - 12.2.1 [gracie_common] Oracle Enterprise Manager - 12.2.1 [gracie_common] Oracle Enterprise Manager Flugin for ESS - 12.2.1 [gracie_common] Oracle Enterprise Manager - 12.2.1 [gracie_common] Oracle Distribution Manager - 12.2.1 [gracie_common] Oracle Enterprise Manager - 12.2.
Help	<gack next=""> Einish Cancel</gack>



Step 3:

Fusion Middleware Configuration Wizard - Page 3 of 13 ×				
Application Location				
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Keystore Advanced Configuration Configuration Progress End Of Configuration	Domain name: Domain location: Application location:	Ws_domain "emp1221/Oracle/Middleware/Oracle_Home/user_projects/domain [/Middleware/Oracle_Home/user_projects/applications/Ws_domain	S Browse	
Help		< Back Next > Einish	Cancel	

Step 4:

Defining the domain user name and password

Fus	ion Middleware	Configuration Wizard	- Page 4 of 13	_ ×
Administrator Account				
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Keystore Advanced Configuration Configuration Progress End Of Configuration	Name Password Confirm Password Must be the same as one number or spec	weblogic	ontain at least 8 alphanume	ric characters with at least
Help			< <u>B</u> ack <u>N</u> ext >	Einish Cancel



Step 5:

Domain mode needs to be production for all installations.

🛐 Fus	sion Middleware Configu	ration Wizard -	Page 5	of 13		_ × _
Domain Mode and JDK			FL			
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Keystore Advanced Configuration Configuration Progress End Of Configuration	Domain Mode Development Utilize boot.propertie Production Require the entry of a JDK Oracle HotSpot 1.8.0_6 Other JDK Location:	s for username and pas username and passwor 55 /scratch/app/jdk1.8.	rd, and do r 0_65	poli for applica	tions to dep	loy. feploy. Browse
Help	L	(< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel

Step 6:

Define the RCU schema details and the TNS connection details

	Fusion Middleware Configuration Wizard - Page 6 of 12 -			
Database Configuration Ty	pe	FU		
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type	Specify AutoConfiguration Options Usi © RCU Data Manual Configura Enter the database connection details u credentials. The Wizard uses this conne components in this domain.	ng: tion sing the Repository Creation ction to automatically confi	n Utility service table (STB) schema gure the datasources required for	
<u>Component Datasources</u> <u>JDBC Test</u> <u>Advanced Configuration</u> <u>Configuration Summary</u> Configuration Progress End Of Configuration	Vendor: Oracle DBMS/Service: Schema Owner: DEV_STB Get RCU Configuration	Driver: <u>*Oracle's Driver</u> Host Name: Schema Password: ••••	(Thin) for Service connections; Versi •	
	Connection Result Edg Connecting schema data from database serverOK Retrieving schema data from database se Binding local schema components with r Successfully Done.	erverOK etrieved dataOK		
Нер	Click"Next" button to continue.	< <u>B</u> ack	Next > Einish Cancel	



Step 7:

JDBC Component Schema						
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources	Vendor: DBMS/Service: Schema Owner: Oracle RAC configuration f O Convert to Gi	or component s	Driver: Host Name: Schema Password: [Schemas: onvert to RAC multi	i data sour	Port:	convert
JDBC Test	Edits to the data above will	affect all checke DBMS/Service	d rows in the table Host Name	below. Port	Schema Owner	Schema Password
Configuration Summary	BAM Schema BAM Job Sched Schema	ORFC12C ORFC12C	ofss220337 ofss220337	1522 1522	DEV_SOAINFR DEV_WLS	•••••
Configuration Progress End Of Configuration	SOA EDN (XA) SOA EDN (Local)	ORFC12C ORFC12C	ofss220337 ofss220337	1522 1522	DEV_SOAINFR DEV_SOAINFR	•••••
	LocalSvcTbl Schema User Messaging Servic	ORFC12C ORFC12C	ofss220337 ofss220337	1522 1522	DEV_STB DEV_UMS	•••••
	SOA (XA) SOA (Local)	ORFC12C ORFC12C	ofss220337 ofss220337	1522 1522	DEV_SOAINFR DEV_SOAINFR	•••••
	BAM MDS Schema	ORFC12C ORFC12C	ofss220337 ofss220337	1522 1522	DEV_MDS	•••••

Step 8:

Fusion Middleware Configuration Wizard - Page 8 of 12 –				guration Wizard - Page 8 of 12 🛛 🗖 🔍
JDBC Component Schema 1	est			
Create Domain		Status	Component Schema	JDBC Connection URL
Templates	~	1	User Messaging Ser	jdbc:oracle:thin:@//ofss220337:1522/ORFC12C
Application Location	~	1	SOA (XA)	jdbc:oracle:thin:@//ofss220337:1522/ORFC12C
	~	1	SOA (Local)	jdbc:oracle:thin:@//ofss220337:1522/ORFC12C
Administrator Account	~	1	BAM MDS Schema	jdbc:oracle:thin:@//ofss220337:1522/ORFC12C
Domain Mode and JDK	~	1	OWSM MDS Schema	jdbc:oracle:thin:@//ofss220337:1522/ORFC12C
Database Configuration Type	~	1	SOA MDS	jdbc:oracle:thin:@//ofss220337:1522/ORFC12C
Component Datasources	~	1	OPSS Audit Schema	jdbc:oracle:thin:@//ofss220337:1522/ORFC12C
IDBC Text	~	1	OPSS Audit Viewer S	jdbc:oracle:thin:@//ofss220337:1522/ORFC12C
JUBC TEST	~	1	OPSS Schema	jdbc:oracle:thin:@//ofss220337:1522/ORFC12C
	Driv URL Usei Pass SQL	er=ora =jdbc:c r=DEV_ sword= Test=s	cle.jdbc.xa.client.Orac pracle:thin:@//zeus.zi SOAINFRA ********* elect 1 from schema_	cleXADataSource on.local:1522/PDB01.ZION.LOCAL .version_registry where owner=(select user from dual) and mr_type='SOAI
	CFG CFG	FWK-64 FMK-64	1213: Test Successful 1213: IDBC connection	l n tast was succaseful
Help				< <u>B</u> ack <u>N</u> ext > <u>E</u> inish Cancel



Step 9:

Select the admin server, node manager and managed servers.

	Fusion Middleware Configuration Wizard - Pag	ge 9 of 18	- 🗆 🗡
Advanced Configuration			
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Clusters Configuration Summary Configuration Summary Configuration Progress End Of Configuration	Administration Server Modify Settings Node Manager Configure Node Manager Managed Servers, Clusters and Coherence Add or Delete or Modify Settings Domain Frontend Host Capture Configure Domain Frontend Host Deployments and Services Target to Servers or Clusters JMS File Store Modify Settings		
Help	<	Back Next > Einist	Cancel

Step 10:

Specify the server name as AdminServer and listener address as hostname. Based on the installation requirement SSL need to be enabled.

	Fusion Middl	eware Cor	nfiguration W	izard - Page 1	0 of 18	-	. 🗆 🗙
Administration Server							
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Advanced Configuration Node Manager Managed Servers Clusters Coherence Clusters Machines Configuration Summary Configuration Progress End Of Configuration	Server Name Listen Address Listen Port Enable SSL SSL Listen Port Server Groups	WLSO_ADM Ws12c 7001	IIN d	not contain any :	, = *? %_cloned.		
Help				< <u>B</u> ac	k <u>N</u> ext >	Einish	Cancel



Step 11:

Specify the server name as soa_server1 and bam_server1 for the managed servers.

Based on the installation requirement SSL need to be enabled for managed servers

	Fusion Midd	leware Configuration Wi	zard - Pa	age 12 of	18	- 🗆 🛛
Managed Servers				FU		
Templates	🛖 Add	🗈 Clone 🛛 🗙 Delete				Dis <u>c</u> ard Changes
Application Location	Server Name	Listen Address	Listen Port	Enable SSL	SSL Listen Port	Server Groups
Domain Mode and JDK	WLS1_SOA WLS2_BAM	wis12c-node1.zion.local 🔻	7003 7004		Disabled Disabled	SOA-MGD-SVRS -
Database Configuration Type Component Datasources IDBC Test						
Advanced Configuration Administration Server						
Node Manager						
Clusters Character Clusters Configuration Summary Configuration Progress End Of Configuration						
Help				< <u>B</u> ack	Next >	Einish Cancel



	Fusion Middleware Configuration V	Vizard - Page 15 of 19	- 🗆 🛛
Coherence Clusters			
Templates		ii) c	is <u>c</u> ard Changes
Application Location	Cluster Name	Unicast Listen Po	ort
Administrator Account	defaultCoherenceCluster	0	
Domain Mode and JDK			
Database Configuration Type			
Component Datasources			
JDBC Test			
Advanced Configuration			
Administration Server			
Vode Manager			
Managed Servers			
Clusters			
Assign Servers to Clusters			
Coherence Clusters			
 <u>Machines</u> 			
Configuration Summary			
Configuration Progress			
O End Of Configuration			
Help		< <u>Back</u> <u>N</u> ext > <u>Finis</u>	h Cancel



Step 13:

	Fusion Middleware	Configur	ation Wi	zard - Pag	ge 16 of 2	- 20	
Machines					FUS		
Create Domain Templates Application Location Administrator Account	Machine Unix Machir	lete				i Dis <u>c</u> ard C	nanges
Domain Mode and JDK Database Configuration Type	Name	Enable Post Bind GID	Post Bind GID	Enable Post Bind UID	Post Bind UID	Node Manager Listen Address	Node Manager Listen Port
Component Datasources JDBC Test Advanced Configuration Administration Server Node Manager Managed Servers Clusters Clusters Coherence Clusters Coherence Clusters Coherence Clusters	MACHINE_wls12c-node		nobody		nobody	Ws12c-node1.zion.local 🔻	5556
Assign Servers to Machines Configuration Summary Configuration Progress End Of Configuration	• •						

Step 14:

			10 11 01 20	
Assign Servers to Machine	25			
Create Domain	Servers		Machines	
Templates			🗁 Unix Machine	
Application Location			WLSO ADMIN	
Administrator Account			WLS1_SOA	
Domain Mode and IDK			📦 WLS2_BAM	
Detahase Carfiguration Ture				
Compared Determined				
Component Datasources				
<u>IDBC Test</u>				
Advanced Configuration				
Administration Server				
Node Manager		8		
Managed Servers				
<u>Clusters</u>				
Assign Servers to Clusters				
Coherence Clusters				
Machines				
Assign Servers to Machines				
Configuration Summary	Select one or more servers in the left pane and button (2) to accion the context of the	one machin	ne in the right pane. Then use the	right arrow
Configuration Progress	batton (>) to assign the server or servers to the	. macriirle.		
End Of Configuration				
Help			Back Next > Finish	Cancel

Step 15:





2.8 <u>Remote Setup Configuration:</u>

Remote setup means SOA is installed in different machine and EAR is running in different machine.

Configuring Flexcube Application to point to remote BPEL instances.



1. Following Jars has to be copied to <Weblogic_home>\<domain>\lib

Jar to be copied	Path where the jar is available in SOA Middleware			
bpm-services.jar	%Middleware Home%/soa/soa/modules/oracle.soa.workflow_ 11.1.1			
fabric-runtime.jar	%Middleware			
tracking-fabric.jar				
tracking-api.jar				
jrf-api.jar	%Middleware Home%/oracle_common/modules/oracle.jrf			
orabpel-common.jar	%Middleware Home%/soa/soa/modules/oracle.soa.bpel_11.1. 1			
orabpel-thirdparty.jar				
orabpel.jar				
soa-infra-mgmt.jar	%Middleware Home%/soa/soa/modules/oracle.soa.mgmt_11. 1.1			
xml.jar	%Middleware			
xmlparserv2.jar	nome%/oracle_common/modules/oracle.xuk			
mdsrt.jar	%Middleware Home%/oracle_common/modules/oracle.mds			
com.oracle.webservices.fmw.wsclient-rt- impl.jar	%Middleware Home%/oracle_common/modules			

2. Additionally if BPMN enabled

Jar to be copied	Path where the jar is available in SOA Middleware	
oracle.bpm.bpm-services.client.jar	%Middleware	
oracle.bpm.bpm-services.interface.jar		
oracle.bpm.project.draw.jar	%Middleware	
oracle.bpm.project.model.jar		
oracle.bpm.core.jar	%Middleware Home%/soa/soa/modules/oracle.bpm.runtime_11.1.1	



oracle.bpm.ui.jar	%Middleware Home%/soa/soa/modules/oracle.bpm.workspace_11.1 .1
oracle.bpm.casemgmt.interface.jar	%Middleware Home%/soa/soa/modules/oracle.bpm.runtime_11.1.1

- 3. The jars copied have to be from same soa-suite version where BPEL processflows deployed. Ie, We cannot have jars from soa12.1.3.0.0 and BPEL deployed in soa12.2.1.0.0. It should be consistent.
- 4. The properties file fcubs.properties should read as below WORKFLOW_CLIENT_TYPE =REMOTE java.naming.provider.url =t3://10.184.74.143:8001/?partitionName=DOMAIN (Remote soa server provider url) java.naming.security.principal =weblogic (Remote bpel server userid) java.naming.security.credentials=RF2MRTP/MG8TB1T5QG6InQ== (Remote soa server password) dedicated.connection=true domain.name=default (Remote soa server partition) domain.pwd=RF2MRTP/MG8TB1T5QG6InQ== (Remote soa server password)
- 5. Configure domain password same as for both fcj ear domain and remote BPEL domain and DowngradeUntrusted Principals has to be checked





SOA Suite Setup for BPEL Process Flow [September] [2024] Version 14.7.5.0.0

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