SOA Suite Setup for BPEL Process Flow Oracle Banking Corporate Lending Release 14.7.2.0.0 Part No. F92377-01 [November] [2023]

FINANCIAL SERVICES

# **Table of Contents**

<b>1. PRE</b>	FACE	1-1
1.1	BACKGROUND	
1.2	AUDIENCE	
1.3	ORGANIZATION	
1.4	ACRONYMS AND ABBREVIATIONS	
2. IN	STALLING THE JDK, WEBLOGIC, RCU, SOA AND DOMAIN CREATION	
2.1	INTRODUCTION	
2.2	LIST OF DOWNLOADED FILES	
2.3	INSTALL JDK.	
2.4	INSTALLING WEBLOGIC SERVER SOFTWARE	
2.5	INSTALLING ORACLE FUSION MIDDLEWARE 12C SOFTWARE	
2.6	CREATING PRODUCT SCHEMAS IN ORACLE DATABASE	
2.7	WEBLOGIC SERVER DOMAIN CONFIGURATION	
2.8	REMOTE SETUP CONFIGURATION:	



# 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 <u>https://edelivery.oracle.com</u>

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 Progress         Installation Complete         Search My Oracle Support for Updates         Username:         Password:         Installation Complete	Brows
	Test Connection



#### Step 3:

Define the oracle home path

Oracle Fusion Middlew Installation Location	are 12c Infrastructure Installation - Step 3 of 8	
Y Welcome	Oracle Home:	
Auto Updates	C:\Oracle\Middleware\Oracle_Home	▼ Browse
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 (_), f	typhen (-) or dot(.) characters and it must begin with a
Help		< Back Next > Einish Cancel

Step 4:

Select fusion middleware infrastructure

Installation Type	
Welcome         Auto Updates         Installation Location         Installation Type         Prenequisite Checks         Security Updates         Installation Summary         Installation Processs         Installation Complete	Eusion Middleware Infrastructure Fusion Middleware Infrastructure With Examples Oracle Fusion Middleware 12c Infrastructure 12.2.1.2.0 Core Server Core Application Server 12.2.1.2.0 Web 2.0 HTTP Pub-Sub Server 12.2.1.2.0 Web Logic Clent Jars 12.2.1.2.0 Web Logic Clent Jars 12.2.1.2.0 Exterprise Manager Fusion Middleware Control 12.2.1.2.0 Database Support Thirdparty JBBC Orlivers 12.2.1.2.0 Web Logic Evaluation Database 12.2.1.2.0 Open Source Components Fusion Middleware Maven Support 12.2.1.2.0 JRF and Enterprise Manager
Help	< Back Next > Finish Cancel



#### Step 5:

rerequisite Checks			
Welcome Auto Updates		100%	
Installation Location	~	Checking operating system certification	
Installation Type	- V	Checking Java version used to launch the installer	
Prerequisite Checks Security Updates			
Installation Summary Installation Progress Installation Complete			
		Rerun         Skip         View Successful Tasks           ecking operating system certification ecking Java version used to launch the installer	View Log

#### Step 6:

Optional based on installation requirement

ecurity Updates		
Velcome Velco	Provide your email address to be and initiate configuration manager Email: wish to receive security upd My grade Support Password:	informed of security issues, install the product r. <u>View details</u> Easier for you if you use your My Oracle Support email address/username. Jates via My Oracle Support.
Help		< Back Next > Finish Cano



#### Step 7:



#### Step 8:

nstallation Progress						R	
Welcome     Auto Updates     Installation Location		Lance	0%				
Installation Type     Prerequisite Checks	9	Prepare Copy					
Security Updates		Generating Libraries Performing String St					
Installation Progress		Linking Setup					
Installation Complete		Saving the inventory Post install scripts					
	View	v <u>M</u> essages	View S	uccessful Tasks			View Lo
	-	See.	and the second		vare and served to Wor		
Help		-		< Back	Next > F	inish	Cance



#### 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:

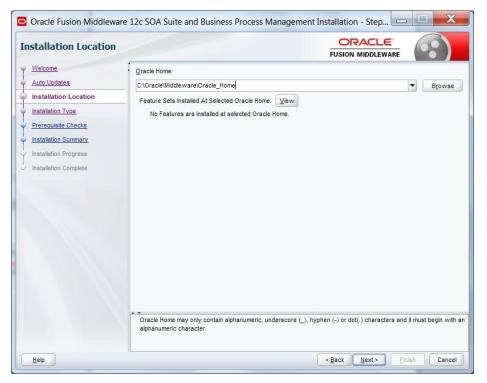
Option need to be selected based on the requirement :

- 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:



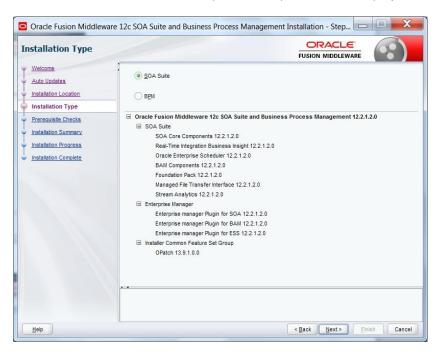
#### Step 3:





#### Step 4:

Select BPM if the environment requires BPM process flow deployment

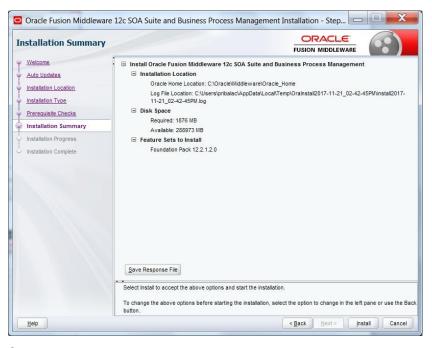


#### Step 5:

Prerequisite Checks ORACLE			
Welcome Auto Updates		100%	
Installation Location		Checking operating system certification	
Installation Type Prerequisite Checks	- V	Checking Java version used to launch the installer	
Installation Summary	-		
Installation Progress			
Installation Complete			
	-		
	Stop	Rerun Skip View Successful Tasks	View Log
		cking operating system certification	
	E VChe	cking Java version used to launch the installer	



#### Step 6:



#### Step 7:

nstallation Progress		
Welcome	100%	
Auto Updates		
Installation Location	V 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 Successful Tasks	View Lo
	Hardware and Engineered to Wo	



#### Step 8:





## 2.6 Creating product schemas in Oracle database

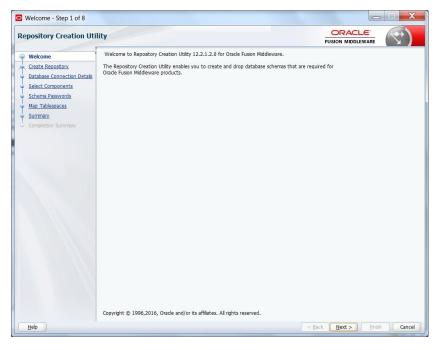
The Repository Creation Utility (RCU) is the tool used to create schemas in a database. This tool is available once we've installed the Oracle Fusion Middleware Infrastructure software (Point 2).

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

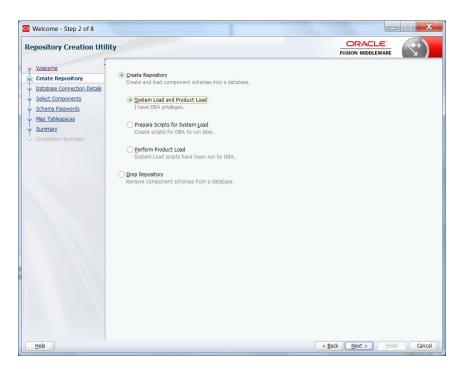
#### Step 1:



#### 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.

Veckome       Database Connection Det         Database Connection Det       Host Name:       whf00bix         Schema Passwords       For RAC database, specify VIP name or one of the Node name as Nost name.         Schema Passwords       Part Tablespaces         Summary       Service Name         Completion Summary       Service Name:         Wig       User with DBA or SYSDBA privileges. Example:sys         Password:       SYSDBA         One or more components may require SYSDBA role for the operation to succeed.	epository Creation Utilit	ty	
Select Components     For RAC database, specify VIP name or one of the Node name as Host name.       Schema Passwords     For RAC database, specify VIP name or one of the Node name as Host name.       Map Tablespaces     Pgrt:       Summary     Service Name:       RCU_PDB_121       User with DBA or SYSDBA privileges. Example:sys       Basword:       Bole:	and the second se	Database Type:	Oracle Database
Summary         Pgrt:         1521           Completion Summary         Service Name:         RCU_PDB_121           User with DBA or SYSDBA privleges. Example:sys         User with DBA or SYSDBA privleges. Example:sys           Basword:         Example: SYSDBA           Bole:         SYSDBA	Select Components Schema Passwords	Host Na <u>m</u> e:	For RAC database, specify VIP name or one of the Node name as Host name.
Completion Summary     Service Name:     RCU_PDB_121       Username:     sys       User with DBA or SYSDBA privleges, Example:sys       Password:     ************************************	Sector Se	Port:	1521
User with DBA or SYSDBA privleges. Example:sys           Password:		Service Name:	RCU_PDB_121
Role: SYSDBA		Username:	
		Password:	
One or more components may require SYSDBA role for the operation to succeed.		Role:	
	Help		< Back Next > Finish Cano



epository Creation Utili	ty		
Welcome	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 Ho For SCAN enabled RAC database, specify SCAN host as Host name.	st name.
Map Tablespaces     Summary     Completion Summary	P <u>o</u> rt: <u>S</u> ervice Name:	1521 RCU_PDB_121	
	Operation con	npleted. Click OK to continue to next page.	QK

#### 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 o	easily locate, reference, and manage the schemas later.
Database Connection Details	Select existing prefix: BPM12212	
Select Components		
Schema Passwords	Oreate new prefix: DEV	
Map Tablespaces	Alpha numeric only. Cannot start with a	a number. No special characters.
Summary	Component	Schema Owner
	Oracle AS Repository Components	
Completion Summary	B AS Common Schemas	
	Common Infrastructure Services	DEV_STB
	Oracle Enterprise Scheduler	ESS
	Oracle Platform Security Services	OPSS
	User Messaging Service	UMS
	Audit Services	IAU
	Audit Services Append	IAU APPEND
	Audit Services Append	IAU_VIEWER
	Metadata Services	MDS
	Weblogic Services	WLS
	BOA Suite	
	Following are mandatory selected components:Common Infrastructure S	



	Select compo	nents - Step 3 of 7	
elect Components			 (☆)
Summary Completion Summ	manage the schemas later.       Select existing prefix:       Select newprefix:	hemas created in this session, so you can easile DEV tility - Checking Prerequisites 00:00.101(ms) 00:00.102(ms) 00:00.102(ms) 00:00.102(ms) 00:00.101(ms) 00:00.101(ms) 00:00.101(ms) 00:00.101(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	(a) Use same password	s for all schemas	
Database Connection Details	Password:	*******	
Select Components		Alpha numeric only.Cannot start with a number.	
Schema Passwords		No special characters except: \$, # ,	
Map Tablespaces			
Summary	<u>C</u> onfirm Password:		
Completion Summary	🔵 Use <u>m</u> ain schema pa	sswords for auxiliary schemas	
	Specify different pa	sswords for all schemas	

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

Step 6:



Welcome - Step 6 of 8	Rights makes and	Aption (prime type	maning/s maning/s	
Repository Creation Uti	lity			
Welcome     Create Repository     Database Connection Details     Select Components	Default and temporary tablespaces for To create new tablespaces or modify	the selected components appear in the existing tablespaces,use the Manage Tal	table below. Jespaces Button	Manage Tablespaces
Schema Passwords	Component	Schema Owne	Default Tablespace	Temp Tablespace
Map Tablespaces	Common Infrastructure Services	DEV STB	*DEV_STB	*DEV_IAS_TEMP
Completion Summary	* Default tablespaces (specified in the	configuration files) are to be created up	ion confirmation.	
Help			< <u>B</u> ack Next	> Einish Cancel

#### Step 7:

Welcome - Step 6 of 8	Nights manhy) manhy) in	and a state	rigitizer (grins	
Repository Creation Uti	lity			
<u>Wekcome</u> <u>Create Repository</u> <u>Database Connection Details</u> <u>Select Components</u>	Default and temporary tablespaces for the selected To create new tablespaces or modify existing tables	components appear in the tabl paces,use the Manage Tablesp.	e below. aces Button	Manage Tablespaces
Schema Passwords	Component	Schema Owner	Default Tablespace	Temp Tablespace
Map Tablespaces	Common Infrastructure Services	DEV_STB	*DEV_STB	*DEV_IAS_TEMP
	Click OK to	aces that do not already exist i d schemas will be created. create tablespaces, to return to the wizard.	Icel	
Help			< <u>B</u> ack <u>N</u> ext	> Enish Cancel



ository Creation Utility		
Velcome reate Repository atabase Connection Datalis elect Components chema Passwords an Tablesoaces	chemas created in this session, so you can easily locate, reference, and in BPM12212 DEV Alpha numeric only. Cannot start with a number. No special character	
Component		Schema Owner
Oracle AS Repository		
empletion Summary	emas	
Repository Creation II	Itility - Checking Prerequisites	DEV_STB
Repository Creation of	Jtility - Checking Prerequisites	ESS
Checking Component Pr	rerequisites	OPSS
Common Infrastruc		IAU
Conmon infrastruc	aure Services UU.UU.IU1(MS)	IAU_APPEND
		IAU_VIEWER
On antiput of the Local Constraints	tel or to posterio to anti-	MDS
Operation completed. C	lick OK to continue to next page.	WLS
	QK	

#### Step 7:

Welcome - Step 7 of 8	Rights Harley's Harley	( mailing) mailing	A ready to reading t	
Repository Creation Uti	lity			
y Welcome	Database details:			
Create Repository     Database Connection Details     Select Components     Schern Passwords     Map Tablespaces     Summary	Port Port Service Name Connected As Operation Prefix for (prefixable) Schema Owners	whf00bix 1521 RCU_PDB sys System al DEV		
Completion Summary	Component	Schema Owner	Tablespace Type	Tablespace Name
	Common Infrastructure Services	DEV_STB	Default Temp Additional	DEV_STB DEV_LAS_TEMP [None]
Help			< Back Ne	xt > Create Cancel



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

SQL> select comp\_name, version from schema\_version\_registry;

rsion_Registr



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

#### Step 1:

F F	usion Middlewaı	re Configuration Wizar	d - Page 1 of 8	- ×
Configuration Type				
Create Domain Templates Administrator Account Domain Mode and JDK Advanced Configuration Configuration Progress End Of Configuration	What do you want © Create a new <u>d</u> Domain Location: Create a new doma	lomain iting domain ['Oracle/Middleware/Oracle_H	ome/user_projects/domains	/wls_domain] Browse
Help			< <u>Back</u> <u>N</u> ext >	Einish Cancel

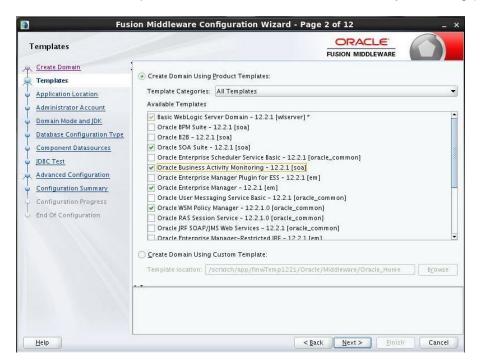


#### Step 2:

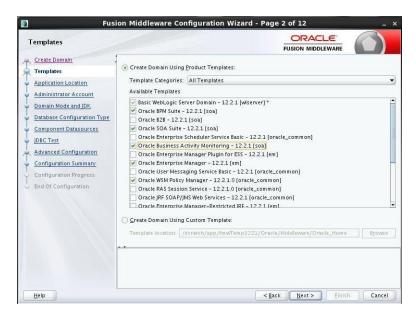
Domain creation template

For BPEL only domain

 $\blacksquare$  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)





#### Step 3:

Fus	ion 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	Domain name: Domain location: Application location:		:/Oracle_Home/user_projects/domains user_projects/applications/wls_domain	
Configuration Summary Configuration Progress End Of Configuration				
Help			< <u>Back Next &gt; Einish</u>	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	the password. Password must c	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	ıration Wizard - P	age 5 (	of 13		_ ×
Domain Mode and JDK						
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	O <u>P</u> roduction	s for username and password username and password	l, and do n			
Help	L		< <u>B</u> ack	Next >	Einish	Cancel

#### Step 6:

Define the RCU schema details and the TNS connection details

	Fusion Middleware Configuration	on Wizard - Page 6 of 1	2 – 🗆 🗡
Database Configuration Ty	pe		
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type	Specify AutoConfiguration Options Usin © RCU Data Manual Configura Enter the database connection details u credentials. The Wizard uses this conne components in this domain.	tion sing the Repository Creation ction to automatically config	jure 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	Driver: *Oracle's Driver ( Host Name: Schema Password: •••••	Thin) for Service connections; Versi v
	Connection to the database serverOK Retrieving schema data from database se Binding local schema components with n Successfully Done.		
Нер	Click "Next" button to continue.	< <u>B</u> ack	Next > Einish Cancel



#### Step 7:

	-				FUSION	MIDDLEWARE	
Create Domain	• Ve	ndor:		Driver:			
Templates	DB	MS/Service:		Host Name:		Port:	
Application Location							
Administrator Account	Sc	hema Owner:		Schema Password:			
Domain Mode and JDK	Or	acle RAC configuration f	or component s	chemas:			
Database Configuration T	Vpe	O Convert to G	ridlink $\bigcirc$ C	onvert to RAC mul	i data sour	ce 🔿 Don't	convert
Component Datasources	_	0	0.			0.000	
•		its to the data above will	affect all checke	d rows in the table	below.		
JDBC Test		Component Schema	DBMS/Service	Host Name	Port	Schema Owner	Schema Passwor
Advanced Configuration		BAM Schema	ORFC12C	ofss220337	1522		•••••
Configuration Summary	H	BAM Job Sched Schema	ORFC12C	ofss220337	1522	DEV_WLS	
Configuration Progress		SOA EDN (XA)	ORFC12C	ofss220337	1522	DEV_SOAINFR	
configuration Progress				ofss220337	4500		
End Of Configuration		SOA EDN (Local)	ORFC12C	0155220557	1522	DEV_SOAINFR	
		SOA EDN (Local) LocalSvcTbl Schema	ORFC12C ORFC12C	ofss220337	1522	DEV_SOAINER DEV_STB	
			ORFC12C		1522		•••••
		LocalSvcTbl Schema	ORFC12C	ofss220337	1522	DEV_STB	•••••
		LocalSvcTbl Schema User Messaging Servic	ORFC12C ORFC12C	ofss220337 ofss220337	1522 1522	DEV_STB DEV_UMS DEV_SOAINFR	•••••
		LocalSvcTbl Schema User Messaging Servic SOA (XA)	ORFC12C ORFC12C ORFC12C	ofss220337 ofss220337 ofss220337	1522 1522 1522 1522	DEV_STB DEV_UMS DEV_SOAINFR	••••••••••••••••••••••••••••••••••••••

#### Step 8:

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	~	4	SOA MDS	jdbc:oracle:thin:@//ofss220337:1522/ORFC12C
Component Datasources	~	1	OPSS Audit Schema	jdbc:oracle:thin:@//ofss220337:1522/ORFC12C
IDBC Test	~	1	OPSS Audit Viewer S	jdbc:oracle:thin:@// ofss220337:1522/ORFC12C
Advanced Configuration	~	1	OPSS Schema	jdbc:oracle:thin:@//ofss220337:1522/ORFC12C
	URL	=jdbc:o		ion.local:1522/PDB01.ZION.LOCAL
			SOAINERA	INTICALISZ2/PDB01.2ION.LOCAL
		samed-1	*****	_version_registry where owner=(select user from dual) and mr_type='SO
	Pass			
	Pass		elect 1 from schema_	sersion_registry where owner=(sereet user from dualy and int_type= 50.
	Pass SQL CFG	Test=s FWK-64	213: Test Successful	n en
	Pass SQL CFG	Test=s FWK-64	213: Test Successful	
	Pass SQL CFG	Test=s FWK-64	213: Test Successful	li n test was successful
	Pass SQL CFG	Test=s FWK-64	213: Test Successful	li n test was successful
	Pass SQL CFG	Test=s FWK-64	213: Test Successful	li n test was successful



#### 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 Con	figuration W	'izard - Page 1	0 of 18	8	. 🗆 🛛
Administration Server							
Create Domain Templates Application Location Administrator Account Domain Mode and JDK Database Configuration Type Component Datasources JDBC Test Advanced Configuration Advanced Configuration 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	7001	1	not contain any	:,=*?%_cloned.		
Help				< <u>B</u> a	ck <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						
Create Domain 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
Administrator Account     Domain Mode and JDK	WLS1_SOA WLS2_BAM	wis12c-node1.zion.local 🔻 wis12c-node1.zion.local 🔻	7003 7004		Disabled Disabled	SOA-MGD-SVRS 👻
Database Configuration Type     Component Datasources	WES2_DAM	WISIZC-NODEL.ZION.IOCAL •	7004		Disabled	BAM12-MGD-SVRS 🔻
UDBC Test						
Advanced Configuration						
Administration Server     Node Manager						
Managed Servers						
<u>Clusters</u> <u>Coherence Clusters</u>						
<ul> <li><u>Machines</u></li> <li><u>Configuration Summary</u></li> </ul>						
Configuration Progress	• •					
Help				< <u>B</u> ack	<u>N</u> ext >	Einish Cancel



	Fusion Middleware Configuration W	/izard - Page 15 of 19	- 🗆 🛛
Coherence Clusters			
Create Domain Templates		<b>ii)</b> [	is <u>c</u> ard Changes
Application Location	Cluster Name	Unicast Listen P	ort
Administrator Account	defaultCoherenceCluster	0	
Domain Mode and JDK			
<ul> <li>Database Configuration Type</li> </ul>			
Component Datasources			
JDBC Test			
Advanced Configuration			
Administration Server			
Vode Manager			
Managed Servers			
Clusters			
Assign Servers to Clusters			
Coherence Clusters			
<ul> <li><u>Machines</u></li> </ul>			
Configuration Summary			
Configuration Progress			
C End Of Configuration			
Help		< <u>B</u> ack <u>N</u> ext > <u>F</u> inis	h Cancel



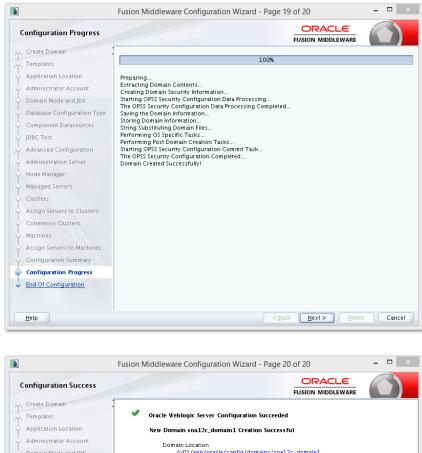
Step 13:

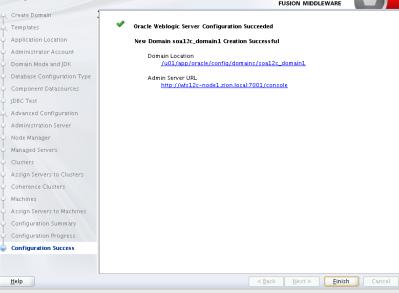
	Fusion Middleware	Configur	ation Wi	zard - Pag	ge 16 of 2	- 20	
Machines							
Create Domain Templates Application Location Administrator Account	Machine Unix Machir	<u> </u>				i Dis <u>c</u> ard Cl	nanges
Domain Mode and JDK     Database Configuration Type	Name	Enable Post Bind GID	Post Bind GID	Enable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

Step 14:

	Fusion Middleware Configuration Wiz	izard - Page 17 of 20 🛛 🗕 🗖 🗌
Assign Servers to Machin	es	
Create Domain	Servers	Machines
Templates		🗁 Unix Machine
Application Location		MACHINE_ws12c-node1     WLS0_ADMIN
Administrator Account		📦 WLS1_SOA
Domain Mode and JDK		WLS2_BAM
Database Configuration Type		
Component Datasources		(F)
IDBC Test		
Advanced Configuration		
Administration Server		
Node Manager		
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 (>) to assign the server or servers to th	d one machine in the right pane. Then use the right arrow
Configuration Progress	bactor (>) to assign the server of servers (0 (r	are machine.
End Of Configuration		
Help		< Back Next > Einish 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	Home%/soa/soa/modules/oracle.soa.fabric_11. 1.1			
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.			
orabpel-thirdparty.jar	1			
orabpel.jar				
soa-infra-mgmt.jar	%Middleware Home%/soa/soa/modules/oracle.soa.mgmt_11. 1.1			
xml.jar	%Middleware			
xmlparserv2.jar	Home%/oracle_common/modules/oracle.xdk			
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 Home%/soa/soa/modules/oracle.bpm.client_11.1.1	
oracle.bpm.bpm-services.interface.jar	nome /// soa/soa/modules/oracle.bpm.client_11.1.1	
oracle.bpm.project.draw.jar	%Middleware	
oracle.bpm.project.model.jar	Home%/soa/soa/modules/oracle.bpm.project_11.1.1	
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

- 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/MG8TB1T5QG6lnQ== (Remote soa server password) dedicated.connection=true domain.name=default (Remote soa server partition) domain.pwd=RF2MRTP/MG8TB1T5QG6lnQ== (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 [November] [2023] Version 14.7.2.0.0

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