WebServices Installation Guide Oracle Financial Services Lending and Leasing

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Oracle Financial Services Lending and Leasing User Documentation

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Table of Contents

1.	Pre	face	1-1
	1.1	Prerequisites	1-1
	1.2	Audience	1-1
	1.3	Conventions Used	1-1
2.	Inst	talling WebServices Database Objects	2-1
3.	Dep	oloying Application Interface WebServices	3-1
	3.1	Creating Data Sources for WebServices	3-1
	3.2	Working with SSL	3-7
		3.2.1 Steps to Import Certificates to keystore	3-7
		3.2.2 Enable SSL Debugging	3-9
		3.2.3 Connecting to service supporting only TLS protocol	3-9
	3.3	Create RouteOne Credentials and System Policies	3-9
	3.4	Deploying Webservices	3-11
		3.4.1 Deployment of WebServices in Enterprise Manager	3-11
4.	Cor	nfiguring Weblogic Policy on WebServices	4-1
5.	Ver	ifying Successful Installation	5-1
	5.1	Steps to Verify Successful Webservices deployment:	5-1
	5.2	Steps to Verify Successful Interface (Route One) deployment:	5-1
6.	Ena	able Logging	6-1
	6.1	Enabling WebService Log	6-1
	6.2	Enabling SQL Log for WebServices Component	6-1
7.	Cor	nfiguring RESTful WebService	7-1
	7.1	Create Data Sources for RESTful WebService	
	7.2	OAuth Implementation	
	7.3	Deploy RESTful WebService	
8.	Арр	pendix - Configuration parameters	A-1

1. Preface

This document contains notes and installation steps needed to install WebServices. Oracle Financial Services Lending and Leasing relies on several pieces of Oracle software in order to run and this document is in no way meant to replace Oracle documentation supplied with the WebServices product or available via Oracle technical support. The purpose of this document is only meant to supplement the Oracle documentation and to provide Oracle Financial Services Lending and Leasing specific installation instructions.

For recommendations on security configuration, refer Security Configuration Guide.

It is assumed that anyone installing Oracle Financial Services Lending and Leasing will have a thorough knowledge and understanding of WebServices.

This guide covers the following processes.

- Installing WebServices Database Objects
- Deploying Application Interface WebServices
- Configuring Weblogic Policy on WebServices
- Verifying Successful Installation
- Enable Logging
- Configuring RESTful WebService
- Appendix Configuration parameters

1.1 <u>Prerequisites</u>

- Download and Install the Oracle Fusion Middleware 12c Version 12.2.1.3.0 (Fusion Middleware Infrastructure installer) from <u>http://www.oracle.com/technetwork/middleware/ fusion-middleware/downloads/index.html#close</u>. They are also available from the following sources:
 - Oracle Software Delivery Cloud (http://edelivery.oracle.com/)
 - Oracle Technology Network (OTN)
- 2. It is assumed that the Oracle Financial Services Lending and Leasing DB is installed and configured, before running the WebServices installer.

1.2 <u>Audience</u>

This document is intended for system administrators or application developers who are installing Oracle Financial Services Lending and Leasing Application.

1.3 <u>Conventions Used</u>

Term	Refers to
Application	Oracle Financial Services Lending and Leasing



2. Installing WebServices Database Objects

Download and unzip the WebServices database (ofsllxwsdb.zip) to a staging folder.

Run \$./installofsllxwsdb.sh

-bash-4.1\$./installofsllxwsdb.sh

This installer adds the required tables and packages to the apllication database.

Enter 'y' when prompted to continue.

Oracle Financial Services Lending and Leasing Webservices DB Installer

Script Prompts	Description and Action Required
Oracle Financial Services Lending and Leasing Home Path	Enter the path to the home directory. This is referred to as \$OFSLL_HOME. Enter 'y' when prompted for.



Oracle Financial Services Lending and Leasing Webservices DB Installer

Important Note: It is expected to have the OFSLL Application DB been installed and configured before running this installer. This installer adds the required tables and packages to the same OFSLL DB schema. Continue? [y/n]: y Enter the Oracle Financial Services Lending and Leasing Home Path? (usually /home/ofsll): /scratch/work_area/DEV/OFSLLREL OFSLLHOME=/scratch/work_area/DEV/OFSLLREL Okay? [y/n]: y Enter the Oracle DB Home Path? /scratch/app/db12c/product/12.1.0/dbhome_1 ORAHOME=/scratch/app/db12c/product/12.1.0/dbhome_1 Okay? [y/n]: y Enter the Oracle SID? ORCL INSTANCENAME=ORCL Okay? [y/n]: y

Script Prompts	Description and Action Required
Oracle DB Home Path	Enter the path to the Oracle DB home directory. This is referred to as \$ORACLE_HOME. Enter 'y' when prompted for.
Oracle SID	Enter the Name of Oracle Instance. Enter 'y' when prompted for.

Important Note:

Here is a list of CRITICAL environment variables and their settings:

PATH=/usr/lib64/qt-3.3/bin:/usr/kerberos/sbin:/usr/kerberos/bin:/usr/bin:/usr/dev_infra/platform/bin:/usr/dev_infra/generic/bin: 11R6/bin:/usr/local/ade/bin:/scratch/app/dbl2c/product/12.1.0/dbhome_1/bin ORACLE_HOME=/scratch/app/dbl2c/product/12.1.0/dbhome_1 ORACLE_SID=ORCL OFSLL_MOME=/scratch/work_area/DEV/OFSLLREL

With the above environment, you should be able start SQLPlus and connect to the database. If you cannot, correct the environment and restart the script to continue.

Continue? [y/n]: y



The script lists and sets the CRITICAL environment variables

..... Oracle Financial Services Lending and Leasing Webservices Database Object Installation

The following items are available for installation:

1.	database	types		(512)
2.	database	tables		(47)
3.	database	views		(295)
4.	database	trigger		(4)
5.	database	package	specs	(412)
6.	database	package	bodies	(420)
7.	database	indexes		(30)
8.	System Se	eed Data		(0)

Continue with Installation? [y/n] :

Enter 'y' when prompted to continue. A list of items available for installation are listed. Enter 'y' when prompted to 'Continue with Installation'.

Oracle Financial Services Lending and Leasing Webservices Database Object Installation

The following items are available for installation:

1.	database types	(173)
2.	database tables	(47)
3.	database views	(157)
4.	database trigger	(4)
5.	database package specs	(254)
6.	database package bodies	(262)
7.	database indexes	(30)
8.	System Seed Data	(0)
Continue with Installatio	m? [y/n] : y	
Log files will be located Press Enter to Continue	in /scratch/work_area/D	EV/OFSLLREL/logs/ofsll_xws_install_logs
Enter the Oracle userid (objects? (usually ofsllpr	schema name) that will or d): OFSLLREL	wn the Oracle Financial Services Lending and Leasing
Enter the password for th	is userid:	

Sets the path for the location of log files. Press 'Enter' to continue.

Script Prompts	Description and Action Required
Oracle User ID that will own the Oracle Financial Services Lending and Leasing objects	Valid User ID
Password for this User ID	Valid Password



The script installs the objects.

PL/SQL procedure successfully completed.
Commit complete.
Recompiling Invalid Objects...
Oracle Financial Services Lending and Leasing Webservices DB Object Installation Com

While installing, the script recompiles the invalid objects and completes the installation of DB objects.



3. Deploying Application Interface WebServices

3.1 Creating Data Sources for WebServices

it is assumed that a managed server is already created for the following web service deployment(s) as per the process detailed in Application Installation guide section - 3.2 Creating Domain and Servers.

1. Login to WebLogic Server 12c console (http://hostname:port/console).

ORACLE WebLogic Server Administration	Console 12c
120	Welcome Log in to work with the WebLogic Server domain Username: Password: Login
WebLogic Server Version: 12.2:1.3.0 Copyright (c) 1996:2017. Oracle and/or its affiliates. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks	of their respective owners.

2. The following window is displayed.

hange Center	Home Log Out Preferences 🚵	Record Help	<u>.</u>	
liew changes and restarts		Welcor	ne, weblogic Connected to: OFSLLREL_doma	
lick the Lock & Edit button to modify, add or	Home			
elete items in this domain.	Home Page			
Release Configuration	- Information and Resources			
unde Churchara	Helpful Tools	General Information		
main structure	Configure applications	Common Administration Task Descriptions		
P-Domain Partitions P-Environment Deployments Services	Configure GridLink for RAC Data Source Configure a Dynamic Cluster Recent Task Status		port	
- Security Realms - Interoperability - Diagnostics	Set your console preferences Oracle Enterprise Manager			
54 (54)	- Domain Configurations			
	Domain	Resource Group Templates	Interoperability	
	Domain	Resource Group Templates	WTC Servers Jolt Connection Pools	
	Domain Partitions	Resource Groups		
w do I	Domain Partitions	Resource Groups	Diagnostics	
Search the configuration	Partition Work Managers		Log Files	
Use the Change Center		Deployed Resources	Diagnostic Modules	
Record WLST scripts	Environment	Deployments	 Built-in Diagnostic Modules 	
Change Console preferences	Servers		Diagnostic Images	
Manage Console extensions	Clusters	Services	Request Performance	
Monitor servers	Server Templates Migratable Targets Coherence Clusters Machines	Messaging JMS Servers	Archives Context	
stem Status		 Store-and-Forward 	SNMP	
ealth of Running Servers as of 11:23 AM		Agents	Interceptors	
Failed (0)	Virtual Hosts	JMS Modules		
	Construction of the second	 Path Services 		



3. Click Domain Name > Services > Data Sources. The following window is displayed.

Change Center	Home Log	Out Preferences	s 🚵 Re	cord Help	Q	
View changes and restarts				v	Velcome, weblogic Connected to: OFSLLREL_doma	
Click the Lock & Edit button to modify, add or	Home >Summa	ary of JDBC Data	Sources			
delete items in this domain.	Summary of JD	BC Data Sourc	es			
Lock & Edit	Configuration	Monitoring				
Release Configuration		-				
omain Structure	A JDBC data s	ource is an obje	ct bound	to the JNDI tree that provides	database connectivity through a pool of JDBC	
FSLLREL domain	connections.	Applications can	look up a	data source on the JNDI tree a	and then borrow a database connection from a data	
Domain Partitions	source.					
Environment	This page sur	nmarizes the JDE	BC data se	ource objects that have been cr	reated in this domain.	
Deployments						
Services	Customize this table					
Data Courses						
Persistent Stores	Data Sources	(Filtered - Mo	re Colur	nns Exist)		
Foreign JNDI Providers	Click the Lock & Edit button in the Change Center to activate all the buttons on this page.					
-XML Registries	New - D	elete			Showing 1 to 9 of 9 Previous Next	
XML Registries XML Entity Caches 	New - D	alete	-	3007 H	Showing 1 to 9 of 9 Previous Next	
→XML Registries →XML Entity Caches →jCOM ✓ →Mail Sessions	New - D	elete	Туре	JNDI Name	Showing 1 to 9 of 9 Previous Next Targets	
XML Registries XML Entity Caches JCOM Mail Sessions	New > Di Name 4 AQ-JMS-	elete ~ DB	Type Generic	JNDI Name jdbc/aqjmsdb	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer	
→XML Registries →XML Entry Caches →jCOM → Mail Sestions ow do L □	New V Di Name AQ-JMS- jdbc/dbl	elete DB 105nlEJBDS	Type Generic Generic	JNDI Name jdbc/aqimsdb jdbc/dbk105nlEJBD5	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer W5_ManagedServer	
	New D	DB TblDataSource	Type Generic Generic Generic	JNDI Name jdbc/aqjmsdb jdbc/dbk105nIEJBDS jdbc/LocalSvcTbIDataSource	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer WS_ManagedServer AdminServer	
→XML Registries →XML Registries →CML Entity Caches →COM →Mail Sessions Ow do I Create JDBC GridLink data sources Create JDBC multi data sources	New - Dr Name - AQ-JMS jdbc/dbl LocalSvo mds-adf	DB c105nIEJBD5 TbIDataSource	Type Generic Generic Generic Generic	JNDI Name jdbc/aqimsdb jdbc/dbk105nlEJ805 jdbc/Local5vcTblData5ource jdbc/mds/adf	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer WS_ManagedServer AdminServer AdminServer, OFSLL_ManagedServer	
XML Registries XML Entity Caches JOOW Mail Sestions Create JDBC Generic data sources Create JDBC GridLink data sources Create JDBC GridLink data sources Create JDBC multi data sources Create UDBC multi data sources Create UDBC multi data sources	New Name AQ-JMS Jdbc/dbl LocalSvo mds-adf OFSLL	DB c105nlEJBDS TblDataSource	Type Generic Generic Generic Generic	JNDI Name jdbc/aqjmsdb jdbc/dbk105nlEJBDS jdbc/ucalSvcTblDataSource jdbc/mds/adf jdbc/ofslIDBConnDS	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer WS_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer	
→XML Registries →XML Registries →XML Entity Caches →JCOM → Mail Sessions ow do L El Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC multi data sources Create UCP data sources Create Proxy data sources	New Di Name 4 AQ-JMS- jdbc/dbl LocalSvo mds-adf OPSLL opss-au	elete DB 105nlEJBDS TblDataSource dit-DBDS	Type Generic Generic Generic Generic Generic	JNDI Name jdbc/aqimsdb jdbc/dbk105nlEJBD5 jdbc/LocalSvcTblDataSource jdbc/mds/adf jdbc/ofslIDBConnD5 jdbc/AuditAppendDataSource	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer WS_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer	
→XML Registries →XML Entry Caches →GOM →Mail Sections forw do I □ Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC multi data sources Create JDBC multi data sources Create JDBC multi data sources Create Proxy data sources Create Proxy data sources	New Name AQ-JMS Jdbc/dbl LocalSw mds-adf OFSLL opss-au opss-au	alete DB DB 105nlEJBDS TbIDataSource dit-DBDS dit-viewDS	Type Generic Generic Generic Generic Generic Generic	JNDI Name jdbc/aqimsdb jdbc/dbk105nlEJBD5 jdbc/ucalSvcTblDataSource jdbc/ofslIDBConnD5 jdbc/AuditAppendDataSource jdbc/AuditViewDataSource	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer WS_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer WS_ManagedServer	
XML Registries XML Redistries XML Redistries XML Redistry Caches Good Mail Sessions ow do L Create JDBC generic data sources Create JDBC GridUink data sources Create JDBC GridUink data sources Create JDBC multi d	New Name 4 AQ-3MS Jdbc/dbl LocalSv mds-adf OFSLL opss-au opss-au opss-au	Alete DB LIDShEJBDS TDIDataSource dit-DBDS dit-viewDS a-source	Type Generic Generic Generic Generic Generic Generic Generic	JNDI Name jdbc/aqimsdb jdbc/dbk105nIEJ8D5 jdbc/localSvcTbIDataSource jdbc/nds/adf jdbc/ofsIDBConnD5 jdbc/AuditAppendDataSource jdbc/AuditViewDataSource jdbc/OpssDataSource	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer WS_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer	

4. Click 'Lock & Edit' button on the left panel. Click 'New' on right panel and select 'Generic Data Source'.

hange Center	1	Home Log Ou	ut Prefere	nces 🚵 Re	cord Help	Q	
/iew changes and restarts					V	Velcome, weblogic Connected to: OFSLLREL_doma	
to pending changes exist. Click the Release		Home >Summary	of JDBC I	Data Sources			
onfiguration button to allow others to edit lomain.	the S	ummary of JDB	C Data So	urces			
Lock & Edit		Configuration	Monitorin	ng			
Release Configuration							
omain Structure		A JDBC data sou connections. Ap	urce is an o plications o	object bound can look up a	to the JNDI tree that provides data source on the JNDI tree a	database connectivity through a pool of JDBC and then borrow a database connection from a data	
SLLREL_domain		source.					
Domain Partitions	^	This page summ	narizes the	JDBC data s	ource objects that have been cr	reated in this domain.	
Deployments							
Services		Customize thi	s table				
Messaging							
Data Sources		Data Sources (Filtered - More Columns Exist)					
Foreign JNDI Providers		New - Dele	te			Showing 1 to 9 of 9 Previous Next	
Work Contexts		Generic Data S	Source	Туре	JNDI Name	Targets	
-XML Entity Caches	G	. GridLink Data Sour	Sourd_/	Generic	idbc/agimsdb	OFSLL ManagedServer	
	~	. Multi Data Sou	irce IS	Generic	jdbc/dbk105nlEJBDS	WS ManagedServer	
ow do I		UCP Data Sour	urce rre ur	ce Generic	jdbc/LocalSvcTblDataSource	AdminServer	
Create IDBC generic data sources		mos-adr	_	Generic	jdbc/mds/adf	AdminServer, OFSLL_ManagedServer	
Create JDBC GridLink data sources		OFSLL		Generic	jdbc/ofsllDBConnDS	AdminServer, OFSLL_ManagedServer	
Create JDBC multi data sources		opss-audit	-DBDS	Generic	jdbc/AuditAppendDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer	
Create Proxy data sources		opss-audit	-viewDS	Generic	jdbc/AuditViewDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer	
rstem Status	=	opss-data-	source	Generic	jdbc/OpssDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer	
ealth of Running Servers as of 7:58 PM		WLSSchem	aDataSou	rce Generic	jdbc/WLSSchemaDataSource	ļ.	
Failed (0)		New~ Dele	ster			Showing 1 to 9 of 9 Previous Next	
Critical (0)							



5. Specify the following details:

Change Center	🟦 Home Log Out Preferences 🗁 Record Help				
/iew changes and restarts	Welcome, weblogic Connected to: OFSLLREL_domain				
lo pending changes exist. Click the Release	Home >Summary of Services >Summary of JDBC Data Sources				
Configuration button to allow others to edit the domain.	Create a New JDBC Data Source				
Lock & Edit	Back Next Finish Cancel				
Release Configuration	JDBC Data Source Properties				
Jomain Structure	The following properties will be used to identify your new JDBC data source.				
PSLLREL_domain D-Domain Partitions	* Indicates required fields				
Environment Deployments Services	What would you like to name your new JDBC data source?				
Security Realms	de * Name: jdbc/dbk105nIEJBDS				
Diagnostics	What scope do you want to create your data source in ?				
	Scope: Global 🔽				
	What JNDI name would you like to assign to your new JDBC Data Source?				
	ALL JNDI Name:				
How do I	jdbc/dbk105n1EJBDS				
Create JDBC generic data sources					
Create LLR-enabled JDBC data sources					
System Status 🗉					
Health of Running Servers as of 9:04 AM	What database type would you like to select?				
Failed (0)	Database Type: Oracle				
Critical (0)					
Overloaded (0)	Back Next Finish Cancel				
OK (2)					

- Enter Data source Name.
- Enter JNDI Name as 'jdbc/dbk105nlEJBDS'.
- Select 'Oracle' as Database Type.
- 6. Click 'Next'. The following window is displayed.
- 7. Select the Database Driver 'Oracle's Driver(Thin) for Instance connections; Versions: Any' as shown.

Change Center	183 Home Log Out Preferences en Record Help	
View changes and restarts	Welcome, weblogic Connected to: OFSLLREL_domain	
No pending changes exist. Click the Release	Home >Summary of Services >Summary of JDBC Data Sources	
domain.	Create a New JDBC Data Source	
Lock & Edit	Back Next Finish Cancel	
Release Configuration	JDBC Data Source Properties	
Domain Structure	The following properties will be used to identify your new JDBC data source.	
OFSLLREL_domain Domain Partitions Deficience Deployments Deployments	Database Oracle Type:	
Security Realms	What database driver would you like to use to create database connections? Note: * indicates that the driver is explicitly supported by Oracle WebLogic Server.	
Diagnostics	Database *Oracle's Driver (Thin) for Instance connections; Versions:Any	
	Back Next Cancel	
How do I		
Create JDBC generic data sources		
Create LLR-enabled JDBC data sources		
System Status		
Health of Running Servers as of 10:00 AM		
Failed (0)		
Critical (0)		
Overloaded (0)		
Warning (0)		
OK (2)		~



Change Center	🔒 Home Log Out Preferences 🖂 Record Help
View changes and restarts	Welcome, weblogic Connected to: OFSLLREL_domai
No pending changes exist. Click the Release	Home >Summary of Services >Summary of JDBC Data Sources
Configuration button to allow others to edit th domain.	Create a New JDBC Data Source
Lock & Edit	Back Next Finish Cancel
Release Configuration	Transaction Options
)omain Structure	You have selected non-XA JDBC driver to create database connection in your new data source.
)FSLLREL_domain	Does this data source support global transactions? If yes, please choose the transaction protocol for this data source.
Deployments	Supports Global Transactions
Security Realms	Select this option if you want to enable non-XA JDBC connections from the data source to participate in global transactions using the <i>Logging Last Resource</i> (LLR) transaction optimization. Recommended in place of Emulate Two-Phase Commit.
Diagnostics	O Logging Last Resource
	Select this option if you want to enable non-XA JDBC connections from the data source to emulate participation in global transactions using JTA. Select this option only if your application can tolerate heuristic conditions.
	O Emulate Two-Phase Commit
low do I	Select this option if you want to enable non-XA JDBC connections from the data source to participate in global transactions
Create JDBC generic data sources	transaction.
Create LLR-enabled JDBC data sources	One-Phase Commit
System Status	Back Next Finish Cancel
Health of Running Servers as of 10:01 AM	
Failed (0)	
Critical (0)	
Overloaded (0)	
Warning (0)	
OK (2)	

9. Click 'Next'. The following window is displayed.

No pending changes exist, Click the Release	Home >Summary of Services >Su	mmary of JDBC Data Sources	_
Configuration button to allow others to edit the domain.	Create a New JDBC Data Sour	ce	
Lock & Edit Release Configuration	Back Next Finish Ca	incel	
Domain Structure	Define Connection Properties.		
OFSLLREL_domain Domain Partitions Environment	What is the name of the databa	se you would like to connect to?	
Deployments	Database Name:	OLLDB	
Security Realms	What is the name or IP address	of the database server?	
Diagnostics	Host Name:	ofsll.oracle.com	
	What is the port on the databas	e server used to connect to the database?	
	Port:	1521	
How do I	What database account user name	me do you want to use to create database connections?	
Create JDBC generic data sources Create LLR-enabled JDBC data sources	Database User Name:	OFSLLREL	
	What is the database account pa	assword to use to create database connections?	
System Status Health of Running Servers as of 10:03 AM	Password:	•••••	
Failed (0) Critical (0)	Confirm Password:	••••••	
Overloaded (0) Warning (0)	Additional Connection Properties	51	
OK (2)	oracle.jdbc.DRCPConnection	(Class:	
	Back Next Finish Ca	incel	~

10. Enter the Database details.



Change Center	Home Log Out Pr	references 🚵 Record Help	Q
View changes and restarts			Welcome, weblogic Connected to: OFSLLREL_domai
No pending changes exist. Click the Release	Home >Summary of Ser	rvices >Summary of JDBC Data Sources	
Configuration button to allow others to edit the domain.	Create a New JDBC D	ata Source	
Lock & Edit	Test Configuration	Back Next Finish Cancel	
Release Configuration	Test Database Con	nection	
omain Structure	Test the database av	ailability and the connection properties y	you provided.
FSLLREL_domain	What is the full packag	ge name of JDBC driver class used to cre	eate database connections in the connection pool?
Environment Deployments Senvices	(Note that this driver o	class must be in the classpath of any ser	ver to which it is deployed.)
Security Realms	Driver Class Name:	oracle.jdbc.OracleDriver	
Diagnostics	What is the URL of the	a database to connect to? The format of	the URL varies by JDBC driver.
	URL:	jdbc:oracle:thin:@ofsll.oracle.co	om:1521:OLLDB
	What database account	nt user name do you want to use to crea	ate database connections?
tow do I 🖂	Database User Name:	OFSLLREL	
Create JDBC generic data sources	What is the database a	account password to use to create datab	base connections?
Create LLR-enabled JDBC data sources	(Note: for secure pass	word management, enter the password	in the Password field instead of the Properties field below)
ystem Status			
lealth of Running Servers as of 10:04 AM	Password:	•••••	
Failed (0)			
Critical (0) Overloaded (0)	Contirm Password:	•••••	
Warning (0) OK (2)	What are the propertie	es to pass to the JDBC driver when creat	ting database connections?
	Properties:		

12. Click 'Test Configuration'. The following window is displayed indicating a confirmation message as 'Connection test succeeded'.

Change Center	🟦 Home Log Out Preferences 🔤 Record Help	
View changes and restarts	Welcome, weblogic Connected to: OFS	LLREL_domain
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Home >Summary of Services >Summary of JDBC Data Sources Messages Connection test succeeded.	
Release Configuration	Create a New JDBC Data Source	
Domain Structure	Test Configuration Back Next Finish Cancel	
OFSLLREL_domain	Test Database Connection Test the database availability and the connection properties you provided.	
Deployments Services Security Realms Interoperability	What is the full package name of JDBC driver class used to create database connections in the connection pool? (Note that this driver class must be in the classpath of any server to which it is deployed.)	
Ith-Diagnostics	Driver Class Name: oracle.jdbc.OracleDriver	
	What is the URL of the database to connect to? The format of the URL varies by JDBC driver.	
	URL: jdbc:oracle:thin:@ofsil.oracle.com:1521:OLLDB	
How do I	What database account user name do you want to use to create database connections?	
Create JDBC generic data sources Create LLR-enabled JDBC data sources	Database User OFSLLREL Name:	
System Status	What is the database account password to use to create database connections?	
Health of Running Servers as of 10:05 AM	(Note: for secure password management, enter the password in the Password field instead of the Properties field	below)
Failed (0) Critical (0) Overloaded (0)	Password:	
Warning (0)	Confirm Password:	



Change Center	🏦 Home Log Out Preferences 🖂 Record Help	
View changes and restarts	Welcome, weblogic Connected to: OFSLLREL_domain	
No pending changes exist. Click the Release	Home >Summary of Services >Summary of JDBC Data Sources	
domain.	Create a New JDBC Data Source	
Lock & Edit	Back Next Finish Cancel	
Release Configuration	Select Targets	
Domain Structure	You can select one or more targets to deploy your new JDBC data source. If you don't select a target, the data source will	
OF5LLREL_domain	be created but not deployed. You will need to deploy the data source at a later time.	
Environment	Servers	
Deployments Services	AdminServer	
Security Realms		
Diagnostics	OFSLL_ManagedServer	
	WS_ManagedServer	
	Back Next Finish Cancel	
How do I 🖂		
Create JDBC generic data sources		
Create LLR-enabled JDBC data sources		
System Status		
Health of Running Servers as of 10:06 AM		
Failed (0)		
Critical (0)		
Overloaded (0) Warning (0)		
OK (2)		~

14. Select 'WS_ManagedServer' as the target Web service Server and click 'Finish'. The following window is displayed.

Change Center	ВН	ome Log Out Preference	s 🚵 Re	cord Help		
/iew changes and restarts				V	Velcome, weblogic Connected to: OFSLLREL_dor	
Pending changes exist. They must be activated	Home >Summary of Services >Summary of JDBC Data Sources					
to take effect.	Summ	ary of JDBC Data Sour	ces			
Undo All Changes	Conf	iguration Monitoring				
Domain Structure DFSLIREL, domain Domain Partitions Denvironment Deployments Desrvices	A JI con sou This Cus	DBC data source is an objenections. Applications can ree. s page summarizes the JD stomize this table	act bound look up a BC data s	to the JNDI tree that provides data source on the JNDI tree a ource objects that have been cr	database connectivity through a pool of JDBC and then borrow a database connection from a data reated in this domain.	
1 Diagnostics	Data	a Sources (Filtered - Me	ore Colur	mns Exist)		
	Ne	w~ Delete			Showing 1 to 9 of 9 Previous Next	
		Name 🚕	Туре	JNDI Name	Targets	
		AO IME DR	Generic	idbr/agimsdb		
		NG-SIND-DD	Contractice.		OFSLL_ManagedServer	
		jdbc/dbk105nlEJBDS	Generic	jdbc/dbk105nlEJBDS	OFSLL_ManagedServer WS_ManagedServer	
low do I		jdbc/dbk105nlEJBDS LocalSvcTblDataSource	Generic Generic	jdbc/dbk105nlEJBD5 jdbc/LocalSvcTblDataSource	OFSLL_ManagedServer WS_ManagedServer AdminServer	
iow do I Create JDBC generic data sources		jdbc/dbk105nlEJBDS LocalSvcTblDataSource mds-adf	Generic Generic Generic	jdbc/dbk105nlEJBDS jdbc/LocalSvcTblDataSource jdbc/mds/adf	OFSLL_ManagedServer WS_ManagedServer AdminServer AdminServer, OFSLL_ManagedServer	
Iow do I Create JDBC generic data sources Create JDBC GridLink data sources		jdbc/dbk105nlEJBDS LocalSvcTblDataSource mds-adf OFSLL	Generic Generic Generic Generic	jdbc/dbk105nlEJBDS jdbc/LocalSvcTblDataSource jdbc/mds/adf jdbc/ofsllDBConnDS	OFSLLManagedServer WS_ManagedServer AdminServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer	
tow do I Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC multi data sources Create UCP data sources		jdbc/dbk105nlEJBDS LocalSvcTblDataSource mds-adf OFSLL opss-audit-DBDS	Generic Generic Generic Generic Generic	jdbc/dbk105nlEJBDS jdbc/LocalSvcTblDataSource jdbc/mds/adf jdbc/ofsIlDBConnDS jdbc/AuditAppendDataSource	OFSLL_ManagedServer WS_ManagedServer AdminServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer	
Iow do I Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC multi data sources Create UCP data sources Create Proxy data sources		jdbc/dbk105nlE3BDS LocalSvcTblDataSource mds-adf OFSLL opss-audit-DBDS opss-audit-viewDS	Generic Generic Generic Generic Generic Generic	jdbc/dbt05nlEJBDS jdbc/LtocalSvcTblDataSource jdbc/mds/adf jdbc/ofilDBConnDS jdbc/AuditAppendDataSource jdbc/AuditViewDataSource	OFSLL_ManagedServer WS_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer	
Iow do I Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC multi data sources Create UCP data sources Create Proxy data sources System Status		jdbc/dbk105nlE3BDS LocalSvcTbIDataSource mds-adf OFSLL opss-audit-DBDS opss-audit-viewDS opss-data-source	Generic Generic Generic Generic Generic Generic Generic	jdbc/dblsDsIEJBDS jdbc/dblsDsIEJBDS jdbc/oralSvcTbIDataSource jdbc/nds/adf jdbc/AuditAppendDataSource jdbc/AuditViewDataSource jdbc/OpssDataSource	OFSLL_ManagedServer WS_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer WS_ManagedServer, WS_MAnagedServer, WS_MANAGEV,	
Iow do I Create JDBC Generic data sources Create JDBC GridLink data sources Create JDBC multi data sources Create UCP data sources Create Proxy data sources ystem Status elath of Running Servers as of 10:08 AM		jdbc/dbk105nlEJBD5 LocalSvcTbiDataSource mds-adf OFSLL opss-audit-DBDS opss-audit-ViewDS opss-audit-viewDS opss-data-source WLSSchemaDataSource	Generic Generic Generic Generic Generic Generic Generic Generic	jdbc/dbt05nlEJBDS jdbc/dbt05nlEJBDS jdbc/dbt05nlEJBDS jdbc/ofslIDBConnDS jdbc/AuditAppendDataSource jdbc/AuditViewDataSource jdbc/AuditViewDataSource jdbc/OpssDataSource jdbc/WLSSchemaDataSource	OFSLL_ManagedServer WS_ManagedServer AdminServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer	

15. Click 'Activate Changes'.

Similarly follow the above steps to create the following data sources:

jdbc/dbkwsDS



- jdbc/IN1HukWznG0b4esj

Change Center	Home Log 0	lut Preferences 🚵 Re	cord Help	Q
View changes and restarts			1	Nelcome, weblogic Connected to: OFSLLREL_dom
lick the <i>Lock & Edit</i> button to modify, add or elete items in this domain.	Home >Summary Messages	of Services >Summary (of JDBC Data Sources	
Release Configuration	W All changes I	nave been activated, No	restarts are necessary,	
	Configuration	Monitoring		
omain Structure	comgaration			
Deployments Services Security Realms Interoperability	connections. Ap source. This page sum	pplications can look up a marizes the JDBC data s	a data source on the JNDI tree : ource objects that have been c	and then borrow a database connection from a data reated in this domain.
r-Diagnostics	Customize th Data Sources Click the Lock	is table (Filtered - More Colu & <i>Edit</i> button in the Ch ete	mns Exist) ange Center to activate all the b	outtons on this page. Showing 1 to 9 of 9 Previous Next
ow do I	Customize th Data Sources Click the Lock	is table (Filtered - More Colu & <i>Edit</i> button in the Ch ete Type	mns Exist) ange Center to activate all the b JNDI Name	outtons on this page. Showing 1 to 9 of 9 Previous Next Targets
ow do I Create JDBC generic data sources	Customize th Data Sources Click the Lock New Del Name & AQ-JMS-D	is table (Filtered - More Colu & Edit button in the Chu ete DB Type Generic	mns Exist) ange Center to activate all the b JNDI Name Jdbc/aqjmsdb	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer
Pulagnostics Ow do I Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC with data sources	Click the Lock	is table (Filtered - More Colur & Edit button in the Chu ete DB Generic 0.05nlEJBDS Generic	mns Exist) ange Center to activate all the b JNDI Name Jdbc/acjimsdb Jdbc/dbk105nlEJBDS	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer WS_ManagedServer
ow do I Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC GridLink data sources Create UFD data sources	Click the Lock	is table (Filtered - More Colui & Edit button in the Chi ete b B Generic L05nlEJBDS Generic bDataSource vtBeneric	INDI Name jdbc/acjmsdb jdbc/acjmsdb jdbc/bcalSvCTblDataSource	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer WS_ManagedServer AdminServer
In Diagnostics	Customize th Data Sources Click the Lock New Del AQ-3MS-C jdbc/dbk1 LocalSvcT mds-adf	is table (Filtered - More Colui @ Edit button in the Chi ete) B Generic OSnIEJBDS Generic Generic Generic	mns Exist) ange Center to activate all the B JNDI Name jdbc/adjmsdb jdbc/dslnSnEJBDS jdbc/dslSvcTbIDataSource jdbc/mds/adf	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer AdminServer AdminServer OFSLL_ManagedServer
In Uiagnostics In United States State	Customize th Data Sources Click the Lock New Del AQ-3MS-C jdbc/dbk1 LocalSvcT mds-adf OFSLL	is table (Filtered - More Colui & Edir button in the Ch ere) Type) Generic (SonIE)BDS Generic Generic Generic Generic Generic	mns Exist) ange Center to activate all the b JNDI Name Jdbc/acjmsdb Jdbc/dbk105nlEJBDS Jdbc/dbk105nlEJBDS Jdbc/mds/adf Jdbc/mds/adf Jdbc/mlDBEConnDS	Showing 1 to 9 of 9 Previous Next Targets OF5LL_ManagedServer WS_ManagedServer AdminServer AdminServer, OF5LL_ManagedServer AdminServer, OF5LL_ManagedServer
"Diagnostics " " Oreate JDBC generic data sources Create JDBC GridLink data sources Create JDBC GridLink data sources Create JDBC multi data sources Create JDBC multi data sources Create Proxy data sources ystem Status Elstate	Click the Lock Click the Lock New © Del Name © AQ-JMS-D Jgbb/dbk1 LocalSvcT mds-adf OFSLL opss-audi	is table (Filtered - More Colui & Edit button in the Chi ete	INDI Name jdbc/aqjmsdb jdbc/aqjmsdb jdbc/bt05nEJBDS jdbc/btcalSvcTblDataSource jdbc/mds/adf jdbc/ofslIDBConnDS jdbc/AuditAppendDataSource	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer WS_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer, WS_MANAgedS
biow do I Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC multi data sources Create UCP data sources Create Proxy data sources ystem Status Falled (0) Falled (0)	Click the Lock Click the Lock New Del Name & AQ-JMS-L Jdbc/dbk1 LocalSveT mds-adf OFSLL opss-audi opss-audi	is table (Filtered - More Colu & Edir button in the Chi ete b Type DB Generic (DSnIE)BDS Generic (DDataSource Generic (CDBDS Generic t-DBDS Generic	INDI Name jdbc/acjmsdb jdbc/acjmsdb jdbc/dclaSnIEJBDS jdbc/ofallDBConnDS jdbc/AuditAppendDataSource jdbc/AuditViewDataSource	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer WS_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer

3.2 Working with SSL

It is not recommended to run OFSLL WebServices with the test certificates in production. You have to get:

- 1. Vendor public production key/certificates for SSL handshake. These have to be imported into weblogic truststore.
- 2. RO public production key/certificates to validate digital signature in the RO inputs. This has to be imported into dls_cacerts keystore mentioned in the configuration file.
- Generate production grade public/private key signed by appropriate CA. The public key has to be shared with RO so that they can validate digital signature in OFSLL requests. The corresponding private key should not be shared, should be imported into dls_cacerts keystore mentioned in the configuration file and used to add the digital signature in RO requests.

Additional Notes

- While testing with the test certificates, you may get error: 'Signature verification failed because RSA key public exponent [3] is too small'.
 - As a fix, you need to add the following in the start-up script:
 'Dweblogic.security.SSL.allowSmallRSAExponent=true'
- You may encounter error: 'java.security.InvalidKeyException: Illegal key size or Cipher not initialize'.
 - As a fix add the following in the start-up script: 'Dweblogic.security.SSL.nojce=true'
- You may encounter error: 'java.security.InvalidAlgorithmParameterException: the trustAnchors parameter must be non-empty'.
 - As a fix remove the '-DUseSunHttpHandler=true' SSL option if any from the startup script.

3.2.1 Steps to Import Certificates to keystore

1. The JKS(dls_cacerts) should be available under /WEB-INF/classes/config.



- Save all the certificates from the vendor website. Note to save the certificates in "Base-64 encoded X.509(.CER)" and with extn .cer. Steps for saving certificates from the vendor website:
 - Click on the padlock and choose 'View Certificates'.

• 🔒 😽 X
A • C

• Click on the Certification Path tab and select the certificate with the 'Name' and 'Issued To' the same as the user-defined ID.

General Details Certification Path	
GeoTrust Global CA	
	View Certificate
Certificate status:	Vjew Certificate
Certificate <u>s</u> tatus: This certificate is OK.	<u>V</u> ew Certificate
Certificate status: This certificate is OK. Learn more about <u>certification paths</u>	Vjew Certificate

• Go to the Details tab.

Field	Value V3	^
Serial number	02 66 db	1
Signature algorithm	sha 1RSA	
Isguarure nash algorithm	GeoTrust SSLCA, GeoTrust, L.	
Valid from	Sunday, July 28, 2013 7:12:5	
Valid to	Saturday, March 08, 2014 2:1	
Subject	www.oracle.com.Content.Ma	
earn more about certificate deta	Edit Properties] Copy to File	•



• Click on the 'Copy to File' button, and click 'Next'. Select 'Base-64 encoding' and save the file somewhere on your local computer.

Certific	ates can be exported in a variety of file formats.
Select	the format you want to use:
C	DER encoded binary X.509 (.CER)
œ	Bage-64 encoded X.509 (.CER)
C	Cryptographic Message Syntax Standard - PKCS #7 Certificates (.P7B)
	Include all certificates in the certification path if possible
C	Personal Information Exchange - PKC5 #12 (.PFX)
	Include all certificates in the certification path if possible
	Enable strong protection (requires IE 5.0, NT 4.0 SP4 or above)
	Delete the private key if the export is successful

- 3. Run following command to import certificate into JKS(dls_cacerts)
 - "keytool -keystore <Key store Path> /dls_cacerts -import -trustcacerts -file
 <Certificate location in file system>\xxx.cer -alias <alias as mentioned in config file>
- 4. Run following command to view details of certificate like expiration date of certificate etc.
 - "keytool -list -rfc -alias alias <alias as mentioned in config file> -keystore <Key store Path> /dls_cacerts
 - "keytool -list -v -alias alias <alias as mentioned in config file> -keystore <Key store
 Path> /dls_cacerts

For more details on keytool refer the link: <u>http://docs.oracle.com/javase/7/docs/technotes/</u> tools/windows/keytool.html

3.2.2 Enable SSL Debugging

SSL debugging can be enabled by adding the following to managed server start-up script: 'Dssl.debug=true'

3.2.3 <u>Connecting to service supporting only TLS protocol</u>

For WLS 12c by default (acting as a client) will send sslv2 hello for the SSL handshake to TLS service. The TLS service will not respond to SSLv2 hello and the connection will be dropped.

The fix for the problem is to set Dweblogic.security.SSL.protocolVersion=TLS1 at the Managed server level in which the WebServices have been deployed.

3.3 Create RouteOne Credentials and System Policies

In order Configure RouteOne, you need to create credentials and system policies.

1. Login to Oracle Enterprise Manager 12c (http://hostname:port/em).



On the left panel, right click on OFSLLREL_domain and select Security > System Policies
 > Credentials. The following window is displayed.

	CLE [®] Enter	rprise Manager	Fusion Middleware Control 12c		WebLogic Domain 👻 weblogic 👻 🚥
	SLLREL_domai WebLogic Domain	in 😗			Sep 16, 2017 3:51:40 PM IST
main_OF:	SLLREL_domain/OF	SLLREL_domain > (Credentials		
redenti	ials				
redential s isolidated	store is the repositor service provider to a	y of security data tha store and manage the	t certifies the authority of entities us eir credentials securely.	ed by Java SE, Java EE, and AD	F applications. Applications can use the Credential Store, a single,
Credent	ial Store Provider				
/iew +	+ Create Map		🖉 Edit 🔀 Delete	Credential Key Name	► 🗟 Detach
Creden	ntial	3		Туре	Description
1	ofsil.http.listener.j	ndi			

3. Click 'Create Map'. The following window is displayed.

Create Map
A credential is uniquely identified by a map name and a key name. Typically, the map name corresponds with the name of an application and all credentials with the same map name define a logical group of credentials, such as the credentials used by the application. All map names in a credential store must be distinct.
Map Name of slint.routeone ×
OK Cancel

- 4. Enter Map Name as 'ofsll.int.routeone' and click 'OK'.
- 5. Click 'Create Key'. The following window is displayed.

Create Key		×
Select Map	ofsII.in.routeone	
* Key	routeone_key_store_password	
Туре	Password V	
* User Name	keystorePassword	
* Password	•••••	
* Confirm Password	•••••	
Description	Update keystore Password	
	ок	Cancel

6. Click 'OK'.

Similarly you need to create the following Maps and corresponding keys as indicated in following table.

Maps Key Name	Username	Password	Description
---------------	----------	----------	-------------



ofsll.in t.rou-	routeone_key store_pd	keystore- Password	changeit	The keystore password
leone	routeone_key_alias	roKeyAlias	routeone pub_tst	RouteOne's public key alias name.The public key is needed to verify the xml signature of the request.
	routeone_ss- cro_key_pd	sscroKeyAlia s	ssc_route- one	OFSLL's private key alias name. The private key is used to sign xml response to RouteOne
	routeone_ss- cro_key_passsword	sscroKey- Password	demot- estSSCR1	OFSLL's private key password

You need to provide access permission for the below mapping. For details on how to set the access permission, refer to section 'Create Credentials and System Policies' in Application Installation guide.

Permission Class	Resource Name	Permission Actions
oracle.security.jps.service.cred- store.CredentialAccessPermission	context=SYSTEM,mapName= ofsll.int.routeone,keyName=*	read

3.4 **Deploying Webservices**

3.4.1 Deployment of WebServices in Enterprise Manager

- 1. Download and unzip the WebServices ofsllxws.zip.
- 2. Following is a mapping of which EAR is needed for which service:

dbkls-xxws.ws.app-dt.ear	dbkls- xxws.ws.app- ds.ear	dbkls-xxws.ws.app-ro.ear
DT Interface : To receive loan application from dealer track	DS Interface : To receive edocs application update	RO Interface : To receive loan application from route one
DT Interface : To receive loan application/deal update from dealer track	DS Interface : To receive edocs comment update	RO Interface : To receive loan application/deal refresh from route one
DT Interface : To receive comments from dealer track	DS Interface : To receive edocs loca- tion update	RO Interface : To receive comments from route one
LOSPostStatusRequestSer- vice: To post comments to dealer track		LOSPostStatusRequestSer- vice: To post comments to route one
LOSPostStatusRequestSer- vice: To post application sta- tus to dealer track		LOSPostStatusRequestSer- vice: To post application status to route one



ILOSPostDealerDetailsSer- vice: To post dealer details to dealer track	ILOSPostDealerDetailsSer- vice: To post dealer details to dealer track
	LOSEContractService: To recieve contract information from RouteOne

- 3. Unzip all the ear files present:
 - dbkls-xxws.ws.app-dt.ear
 - dbkls-xxws.ws.app-ro.ear
 - dbkls-xxws.ws.app-ds.ear

4. Open each of the unzipped files and unzip the war file.

```
-bash-4.1$ unzip ofsllxws.zip -d ofsllxws
Archive: ofsllxws.zip
 inflating: ofsllxws/dbkls-xxws.ws.app-ds.ear
 inflating: ofsllxws/dbkls-xxws.ws.app-dt.ear
 inflating: ofsllxws/dbkls-xxws.ws.app-ro.ear
-bash-4.1% cd ofsllxws
-bash-4.1$1s
ibkls-xxws.ws.app-ds.ear dbkls-xxws.ws.app-dt.ear dbkls-xxws.ws.app-ro.ear
-bash-4.1$ unzip dbkls-xxws.ws.app-ds.ear -d dbkls-xxws.ws.app-ds
Archive: dbkls-xxws.ws.app-ds.ear
  creating: dbkls-xxws.ws.app-ds/META-INF/
 inflating: dbkls-xxws.ws.app-ds/META-INF/application.xml
 inflating: dbkls-xxws.ws.app-ds/dbkls-xws-web-ds.war
-bash-4.1Scd dbkls-xxws.ws.app-ds
-bash-4.1$1s
ibkls-xws-web-ds.war META-INF
                                                   2
-bash-4.1$ unzip dbkls-xws-web-ds.war -d dbkls-xws-web-ds
Archive: dbkls-xws-web-ds.war
  creating: dbkls-xws-web-ds/WEB-INF/
  creating: dbkls-xws-web-ds/WEB-INF/classes/
                                                                                         T
  creating: dbkls-xws-web-ds/WEB-INF/classes/com/
  creating: dbkls-xws-web-ds/WEB-INF/classes/com/ofss/
  creating: dbkls-xws-web-ds/WEB-INF/classes/com/ofss/fll/
  creating: dbkls-xws-web-ds/WEB-INF/classes/com/ofss/fll/utils/
  creating: dbkls-xws-web-ds/WEB-INF/classes/com/ofss/fll/xws/
  creating: dbkls-xws-web-ds/WEB-INF/classes/com/ofss/fll/xws/dialerintegration/
  creating: dbkls-xws-web-ds/WEB-INF/classes/com/ofss/fll/xws/exception/
  creating: dbkls-xws-web-ds/WEB-INF/classes/com/ofss/fll/xws/lookup/
  creating: dbkls-xws-web-ds/WEB-INF/classes/com/ofss/fll/xws/xae/
  creating: dbkls-xws-web-ds/WEB-INF/classes/com/ofss/fll/xws/xcl/
  creating: dbkls-xws-web-ds/WEB-INF/classes/com/ofss/fll/xws/xcs/
```

5. It creates a WEB-INF file

```
-bash-4.1$ls
dbkls-xws-web-ds.war META-INF WEB-INF
```

After unzipping the war file to directory, the directory will have the following structure

/ dbkls-xxws.ws.app-ds / dbkls-xxws.ws.app-dt / dbklsxxws.ws.app-ro

```
WEB-INF (directory)
```

```
---->classes (directory)
```

- config

- class files (in package folders)
- ----> lib (directory)
- OfsllCommonCSF.jar



-----> wsdl (directory)

- *.wsdl

----> *-java-wsdl-mapping.xml

----> web.xml

----> weblogic.xml

----> weblogic-webservices.xml

-----> weblogic-webservices-policy.xml

----> webservices.xml

 To edit the web interface config files, navigate to the above WEB-INF > classes > config. Edit the following configuration files with the application url and port.

For complete details on configuration parameters, refer to "Appendix - Configuration parameters" section in Appendix chapter.

ds_servlet_init.conf-This is the configuration file only for edocs servlet interface

```
#### XML schema to use when validating incoming application update
#### (comments) messages
##### URL for OFSLL eDocs web service
LOSApplicationRequestServiceURL = http://<localhost>:<port>/dbkls-xws-app-ds/LOSApplicationRequestService
LOSApplicationLocationUpdateServiceURL = http://<localhost>:<port>/dbkls-xws-app-ds/LOSApplicationCommentUpdateService
LOSApplicationLocationUpdateServiceURL = http://<localhost>:<port>/dbkls-xws-app-ds/LOSApplicationCommentUpdateService
LOSApplicationLocationUpdateServiceURL = http://<localhost>:<port>/dbkls-xws-app-ds/LOSApplicationLocationUpdateService
HOSApplicationLocationUpdateServiceURL = http://<localhost>:<port>/dbkls-xws-app-ds/LOSApplicationLocationUpdateService
```

dt_servlet_init.conf- This is the configuration file only for dealer track servlet interface

URL for OFSLL new application web service

LOSApplicationRequestServiceURL = http://<localhost>:<port>/dbkls-xws-app-dt/LOSApplicationRequestService

URL for OFSLL application update web service

LOSApplicationUpdateServiceURL = http://<localhost>:<port>/dbkls-xws-app-dt/LO3pplicationUpdateService

ro_servlet_init.conf- This is the configuration file only for route one servlet interface

```
#### URL for OFSLL new application web service
LOSApplicationRequestServiceURL = http://<localhost>i<port>/dbkls-xws-app-ro/LOSApplicationRequestService
#### URL for OFSLL application update web service
LOSApplicationUpdateServiceURL = http://<localhost>i<port>/dbkls-xws-app-ro/LOSApplicationUpdateService
#### URL for OFSLL e contract web service
LOSeContractWebServiceServiceURL = http://<localhost>i<port>/dbkls-xws-app-ro/LOSEContractService
```



7. Login to Web Logic application server enterprise manager (e.g.: <u>http://hostname:port/em</u>)

SIGN IN TO ORACLE ENTERPRI FUSION MIDDLEWA	SE MANAGER RE CONTROL 12c	
Domain Domain_OFSLLREL_domain * User Name * Password Display to Partition Sign in		
	OF	

8. Enter valid login credentials. The following window is displayed.

DRACLE' Enterprise	Manager Fusion Middleware Control 12c					WebLogic	Domain	* weblogic	*	14
OFSLLREL_domain 0						1	-	Auto Refresh	0#	3
👫 WebLogic Domain 👻							Sep 2	26, 2017 8:15:37	PM IST	1
Information Certain functionality on this page	is available only when you own the edit sessi	on lock. 1	fo obtain th	ne lock, click	"Lock and	Edit" in the Chang	je Center	menu.		
Servers	Administration Server									
3 Up	Name AdminServe Host ofsillin.oraci Listen Port 9001	e.com								
Clusters	Servers	Creater								
Clusters	Name	Status	Cluster	Machine	State	Health		Listen Port		
	AdminServer(admin)	+			Running	OK		9001		
	OFSLL ManagedServer	+			Running	OK		9003		
Deployments	WS_ManagedServer	+			Running	OK		9004		
3 Up										
Domain Partitions										
Resource Group Templates	<					_			>	



9. Expand the weblogic domain present in the left pane. The following window is displayed.

		anager Pusion Middleware Control 120							uto Rofrach	0#	
WebLogic Domain +								Edit Sessions	ulo ivenesii	M IST T	
								Lock & Edit		6	
Certain functionality on this pa	ge is	available only when you own the edit sessi	on lock. 1	o obtain th	e lock, click	"Lock and	Edit" in t	View Change Lis	t S	G	
Servers 3 Up		Administration Server Name AdminServer Host ofsill.in.oracle.com							View & Resolve Conflicts Release Configuration Activate Changes Undo All Changes		
		Listen Port 9001						View Restart Ch	ecklist		
Clusters		Servers		Preferences							
0	÷	View - 🔚 Create 💥 Delete Control - 🕎						Help			
Clusters		Name	Status	Cluster	Machine	State	Health	L	isten Port		
		AdminServer(admin)	1			Running	OK		9001		
2 2 2		OFSLL_ManagedServer	+			Running	OK		9003		
Deployments		WS_ManagedServer	1			Running	OK		9004		
3 Up Domain Partitions	*										
Resource Group Templates		<								>	

10. Right click on 'WS_ManagedServer' in left panel, select Application Deployment > Deploy.

OFSLLREL_domain	0						(} - ⊡	 Auto Refresh Off Dec 6, 2019 4:57:09 PM IST
Confirmation The edit session lock has be	en acqu	uired. N	lo pen	iding changes ex	ist.				
Servers		Dep	loyme	ents					
	Þ	Vie	w w	Show All	Deployment 👻 Override 👻	Contr	ol 🔻 📴		
J Up		1			1 Deploy		•	•	•
				Name	E Redeploy		State	Health	Туре
Clusters			*	ofsl148(V14	Condeploy		Active	OK	Enterprise Application
				opss-rest		_	Active	ок	Web Application
2 Up	*								

11. The following window is displayed.

FSLLREL_domain 🚯							
•							
Select Archive Select Target	Application Attributes	Deployment Setting	15				
eploy Java EE Application: Sel	ect Archive			Back	Step 1 of 4	Next	Cano
Scope					a Inform	ation	
Select a scope that you want to deploy this applice	tion to Global ¥				Use this neo	e to deal	ov lave
Archive or Exploded Directory					applications Metadata Se	that requirvices (N	IDS) or
Java EE archives, Web Modules (WAR files), EJB (GAR files), JDBC Modules, JMS Modules, and lib	Modules (EJB JAR files) rary files (Jar files) can b	, Resource Adapter Mo e deployed. You can al:	dules (RAR files), Cohe so deploy an exploded a	rence Archives rchive that is	Application C Framework (ge of the Developm (Oracle A	Oracle nent (DF).
present on the server where Enterprise Manager is	s running.				If your applic	ation is a	SOA
Archive is on the machine where this Web bro	wser is running.				Composite d	leployme	nt wiza
Choose file No file chosen					If your applic composite of	r it does r	not a SC
 Archive or exploded directory is on the server 	where Enterprise Manag	jer is running.			MDS reposit connections.	then you	DF u can de
				Browse	your applicat or the Oracle	tion using WebLog	g this wi gic Serv
Desile and Dise				43	Administratio	on Conso	de.
Deployment Plan							
The deployment plan is a file that contains the dep this application. Later in the deployment process, y application. If you do not have a deployment plan, configuration is done. The deployment plan is not a	you can optionally edit the one will be created autor oplicable when you deplo	pplication, you can use e deployment plan and matically during the dep by a library.	save it for a future deplo loyment process when o	loyment plan for lyment of this deployment			
Create a new deployment plan when deployment	ent configuration is done	n					
O Deployment plan is on the machine where this	Web browser is running	I					
Choose file No file chosen							
O Deployment plan is on the server where Enter	prise Manager is pupping	1					

12. Browse to the folder containing the WebService.



Eg: /ws-as/ofsllxws/dbkls-xxws.ws.app Click 'Next'.

FSLEREL_domain ()					
Select Archive Select Target Application Attributes Deployr	ent Settings				
Deploy Java EE Application: Select Archive		Back	Step 1 of 4	Next	Cance
Scope Select a scope that you want to deploy this application to Global Archive or Exploded Directory Java EE archives. Web Modules (WAR files), EJB Modules (EJB JAR files), Resource JBC Modules, MS Modules, and Interry files (Jar files) can be deployed. You can also trave Enterprise Manager is running. On Archive is on the machine where this Web browser is running. On Archive and the machine where this Web browser is running. On Archive and the machine where this two browser is running. On Archive and the machine where this two browser is running. On Archive and the machine where this two browser is running. On Archive and the machine where the machine	Adapter Modules (RAR files), Coherence Archives (GAR f deploy an exploded archive that is present on the server n server must be an absolute path or a	Saperade E 1800 E 1820 Son	Informatic set his page to oplications that ke advantage of oplication Deve amework (Ora- your applicatio omposite deplo your applicatio omposite or it d DS repository (on solitons, for- insciblions, for- the Oracle We dministration C	deploy J require (es (MDS) of the Orr lopment cle ADF) n is a SCO he SOA hyment w n is not a or ADF n you cai using this ebLogic S onsole.	ava EE Dracle or that sole vA izard. SOA equire a s deploy enver
Deployment Plan The deployment plan is a first sortains the deployment settings for an application The deployment plan, is a first sortains the deployment settings for an application of the deployment plan, one will be created automatically during the deployment plan is not applicable when you deploy a library. © Create a new deployment plan when deployment configuration is done. © Deployment plan is on the machine where this Web browser is running. Chocke File No file chosen © Deployment plan is on the server where Enterprise Manager is running.	ou can use a previously saved deployment plan for this ment process when deployment configuration is done. Th				

13. The following window is displayed. Select the server on which the WebService needs to be deployed. Click 'Next'.

LREL	_domain 🕦			
0	•			
elect A	rchive Select Target App	lication Attributes Deployment Settings		
ploy	Java EE Application: Select	Target	Back Step 2 of 4 Ne	xt Can
elect th	he WebLogic server or cluster that you war	nt this application to be deployed to.		
Select	Name	Туре	Deployed Applications	
0	AdminServer	Oracle WebLogic Server	00	
	OFSLL_ManagedServer	Oracle WebLogic Server	00	
	WS ManagedServer	Oracle Webl onic Server	00	
	4			
	4			
	4			
	4			
	4			
	4			
	4			
	4			
	4			
	4			



14. The following window is displayed. Check the context root and select the Distribution option as 'Install and start application (servicing all requests)'. Click 'Next'.

Select Archive Openory Select Archive Select Archive Deploy Java EE Application: Application Attributes Back Step 3 of 4 Next Period Archive Type Archive Type Java EE Application (EAR file) Deployment Type Create a new plan Deployment Type OFBL_ Book OFBL_ Deployment Type OFBL_ Marchive Type OFBL_ Marchive Steps OFBL Deployment Type OFBL Deployment Type OFBL Deployment Type OFBL Deployment Type Oploation * Application Name dbks-sockes spp-dt Context Root of Web Context Root Optionent Type Definition (DTD) based application xml cannot be configured in Enterprise Manager. Enterprise Manager supports scheme based Web Module Context Root Web Module Context Root		0							
Select Archive Select Target Application Application Deployment Settings Deploy Java EE Application Application Attributes Back Step 3 of 4 Mext Deploy Case I Hide Deployment Summary Archive Type Java Case a new plan Case a new plan Case a new plan Case a new plan Deployment Target OBSL_ManagedServer Case a new plan Case a new plan Case a new plan Deployment Target OBSL_ManagedServer Case a new plan Case a new plan Deployment Target Obsta_ManagedServer Case a new plan Case a new plan Case a new plan Case a new plan Case a new plan Case a new plan Case a new plan	0								
Deploy Java EE Application Attributes Back Step 3 of 4 Next Deploy Case I Hide Deployment Summary Archive Type Java EE Application (EAR file) Case Case <td< th=""><th>Select Archive</th><th>Select Target</th><th>Application Attributes</th><th>Deployment Settings</th><th></th><th></th><th></th><th></th><th></th></td<>	Select Archive	Select Target	Application Attributes	Deployment Settings					
# Hide Deployment Summary James Control (CAR files) Archive Type James Control (CAR files) Deployment Transe OFSLL_ManagedSarver Deployment Transe OFSLL_ManagedSarver Beployment Transe OFSLL_ManagedSarver Deployment Type Application Name * Application Name OFSLL_ManagedSarver	Deploy Java E	E Application: Ap	plication Attribu	ites	Back	Step 3 of 4	Next	Deploy	Cano
Archive Type Java EE Application (EAR flip) Deployment Type Create Age Deployment Type OFSLE_ManagedSever Boplo Create Age	Hide Deployment	Summary							
Deployment Plan Create a new plan Deployment Targe O'BealManagedBarver Scorpe Olobal Deployment Type Application * Application Name dbls=scorps was app-dt	An	chive Type Java EE Appl	lication (EAR file)						
Deployment Target OFSLL_ManagedServer Serpe Obsla Deployment Type Application * Application Name dblas.xxxxs.vs.app.dt	Deploy	ment Plan Create a new	plan						
Scope Global Deployment Type Global Deployment Type Application Application Name Application Name Context Rood Module Context Rood Cont	Deploym	ent Target OFSLL_Mana	agedServer						
Deployment Type Application * Application Name dbtbs-owers.ws.app-dt context Root of Web Module in Document Type Definition (DTD) based application.xml cannot be configured in Enterprise Manager. Enterprise Manager supports schema based Web Module Context Root WebModule Context Root WebModule Context Root		Scope Global							
* Application Name dbbis-owev.vs.ss.app-dt Context Root of Web Module Web Module appointer Type Definition (DTD) based application.xml cannot be configured in Enterprise Manager. Enterprise Manager supports schema based Web Module Orient Root dbbis-wsw-web-dtwar dbbis-wsw-web-dtwar	Deploy	ment Type Application							
ontext Root of Web Modules ontext Root of Web module specified in Document Type Definition (DTD) based application.xml cannot be configured in Enterprise Manager. Enterprise Manager supports schema based plication.mm of Module Ontext Root Biblio-sws-web-Ctar	* Appli	cation Name dbkls-xxxxs.	ws.app-dt						
antest not of VMb module specified in Document Type Definition (DTD) based application xml cannot be configured in Enterprise Manager. Enterprise Manager supports schema based WbM Module Different Context Root SMB-sws-web-dt.wa Gebka-sws-app-dt SMB-sws-web-dt.wa	entert Deat of Ma	b Modules							
Web Module Context Root dbk/s-ows-web-dt.war dbk/s-ows-app-dt	A DEPART PROVIDENT AND AND	dule specified in Document	Type Definition (DTD) ba	sed application.xml cannot be configured in I	Enterprise Manager. En	erprise Manag	ler suppo	rts schema	based
dbkls-xws-web-dt.war dbkls-xws-app-dt	Context root of Web mor		ot						
	Context root of Web mol pplication.xml only.	Context Ros							
	Context root of Web mo- pplication.xml only. Web Module dbkls-xws-web-dt.war	dbkls-xws-ap	p-dt						
Jan Button	Dontext root of Web mo- pplication.xml only. Web Module dbkls-xws-web-dt.war Distribution	Context Rod dbkls-xws-app	p-dt						
Install and start application (servicing all requests)	Context root of Web mo- pplication.cml only. Web Module dbkls-ows-web-dt.war Distribution	Context Rod dbkls-xws-app Install a	p-dt	cing all requests)					

15. The following window is displayed. Click 'Deploy'.

SLLREL_domain 🚯																
Select Archive Select	Target Applica	tion Attributes	Dep	loymen	t Setting											
eploy Java EE Applic	ation: Deploym	ent Settin	gs							Back	Ste	p 4 of 4	Next	Deploy	c	ano
Deployment Plan	Create a new plan															
Deployment Target	OFSLL_ManagedServe	ar														
Scope	Global															
Deployment Type	Application															
Application Name	dbkis-xxxxs.ws.app-dt															
Version	Not versioned															
Context Root	dbkls-xws-app-dt															
Deployment Mode	Install and start applica	tion (servicing a	Il reque	ests)												
Deployment Tasks The table below lists common tasks	s that you may wish to d	o before deploy	ing the	applicat	on.											
Name	Go To Task	Description														
Configure Web Modules	/	Configure th	ne Web	module	s in your	applicatio	m.									
		Configuration	and in which			on creden	tial minut	ation an	d other a	and the second sec	-					

16. The following window is displayed. Click 'Close'.

Deployment Suc	ceeded
Deployment of Applicat Center to activate or un	tion "dbkls-xxws.ws.app-dt" is completed. The deployment changes are pending activation. Exit the wizard and use the Change do the changes.
Summary	
Scope	Global
Version	Not versioned
Deployed Archive Location	/scratch/app/fmw12c/user_projects/domains/OFSLLREL_domain/sysman/upload/deploy/dbkis-xxws.ws.app-dt/archive/dbkis-xxws. ws.app-dt.ear
Archive Type	Java EE Application (EAR file)
Deployment Mode	Install and start application (servicing all requests)
Deployment Target	OFSLL_ManagedServer
Application States	Unavailable (OFSLL_ManagedServer)
Context Root	dbkls-xws-app-dt
A Hide Progress Mes	sages
[May 10, 2019 7:34 [May 10, 2019 7:34 dtarchive/bkls.co [May 10, 2019 7:34 processing will con [May 10, 2019 7:34	4:37 AM IST Initiating deploy operation 4:37 AM IST Antibutes (stratichisperfimit Zoluser_projects/domains/OFSLLREL_domain/sysman/upload/deploy/ dbkis-xxxx.vs.app- vs.ws.app-dt.as vs.ws.app-dt.as vs.ws.app-dt.as vs.ws.app-dt.as vs.ws.app-dt.as vs.as v
L	

- 17. If required, similarly deploy rest of the WebServices.
- 18. In case the context root has to be changed for the WebServices, it can be changed by editing the application.xml or through the console. To change through console, login to WebLogic Server 12c console (http://hostname:port/console).



19. Go to Deployments > <select the service deployment> > Configuration General and modify the context root to the recommended name as follows:

Service	Service EAR	Recommended Context	Remark
Edocs Interface	dbkls- xxws.ws.app- ds.ear	dbkls-xws-app-ds	If this the recommended context name is not used, then the Ser- vice URLs in the configuration files needs to be changed
Dealer Track Interface	dbkls- xxws.ws.app- ds.ear	dbkls-xws-app-dt	If this the recommended context name is not used, then the Ser- vice URLs in the configuration files needs to be changed
Route One Inter- face	dbkls- xxws.ws.app- ro.ear	dbkls-xws-app-ro	If this the recommended context name is not used, then the Ser- vice URLs in the configuration files needs to be changed

20. Ensure that the application status is 'Active'.



4. Configuring Weblogic Policy on WebServices

After deploying WebServices, you must configure Weblogic Policy on WebServices.

To configure Weblogic Policy on WebServices

1. Login to WebLogic application server console (http://hostname:port/console). The following window is displayed.

Change Center	Home Log Out Preferences [Ard Ho	cord Help	20 C			
View changes and restarts		Web	come, weblogic Connected to: OFSLLREL_dom			
Click the Lock & Edit button to modify, add or	Home					
delete items in this domain.	Home Page					
Lock & Edit	- Information and Recourses					
Release Configuration	Information and Resources	100 100 100 100 100 100 100 100 100 100				
	Helpful Tools	General Information				
omain Structure	Configure applications	 Common Administration Task Descript 	istration Task Descriptions			
FSLLKEL_domain	 Configure GridLink for RAC Data Source 	 Read the documentation 				
Environment	Ask a question on My Oracle Support Oracle Support					
Deployments	Recent Task Status					
Security Realms	Set your console preferences					
Interoperability Diagnostics	Oracle Enterprise Manager					
	- Domain Configurations					
	Domain	Resource Group Templates	Interoperability			
	Domain	Resource Group Templates	WTC Servers			
	Domain Partitions	Resource Groups	Jolt Connection Pools			
low do I 🖂	Domain Partitions	Resource Groups	Diannostics			
Search the configuration	Partition Work Managers		Log Files			
Use the Change Center		Deployed Resources	Diagnostic Modules			
Record WLST scripts	Environment	Deployments	Built-in Diagnostic Modules			
Change Console preferences	Servers		Diagnostic Images			
Manage Console extensions	Clusters	Services	Request Performance			
Monitor servers	 Server Templates 	Messaging	Archives			
	 Migratable Targets 	 JMS Servers 	Context			
System Status 🖂	Coherence Clusters	 Store-and-Forward Agents 	SNMP			
lealth of Running Servers as of 9:25 AM	Machines	 JMS Modules 	Interceptors			
Failed (0)	Virtual Hosts	 Path Services 				
Critical (0)	 Virtual Targets 	 Bridges 	Charts and Graphs			
Overloaded (0)	Work Managers	Data Sources	 Monitoring Dashboard ¹⁰ 			
Warning (0)	 Concurrent Templates 	 Persistent Stores 				

2. Click 'Deployments' which is available on both side panels as marked above. The following window is displayed.

hange Center	He He	ome Log Out Pre	ferences	A Record	Help	Q			
iew changes and restarts							Welcom	e, weblogic Connect	ed to: OFSLLREL_dom
lick the Lock & Edit button to modify, add or	Home	Summary of Environment of Environment Summary Summary of Environment Summary of Environment Summary Su Summary Summary Summ Summary Summary Sum	ironment >	Summary	of Deployme	nts			
elete items in this domain.	Summ	ary of Deploym	ents						
Lock & Edit	Confi	iguration Con	trol Mo	nitoring					
Release Configuration									
omain Structure	This	s page displays th	e list of Ja	va EE appli	ications and s	standalone application mo	dules inst	alled to this domain.	
SLLREL_domain	You	can update (red	eolov) or d	elete instal	led applicatio	ons and modules from the	domain b	w selecting the checkbo	x next to the
Domain Partitions	appl	lication name and	then usin	g the conti	rols on this pi	ige.		,	
- Deployments	To is	nstall a new appl	cation or r	module for	deployment	to targets in this domain,	click Inst	all.	
Services									
Security Realms	Cus	tomize this tab	le						
Diagnostics	Den	ovments							
	Ins	tall Update	Delete					Showing 1 to 3	of 7 Previous Next
		Name 🚕	State	Health	Type	Targets	Scope	Domain Partitions	Deployment Order
						AdminEnnung			
		Coherence-	Active	🖉 OK	Resource	OFSLL_ManagedServer,	Global		100
ow do I 🖂		u ansaccion-rai			. mapes	WS_ManagedServer			
-									
Install an enterprise application		III Tadbkis-	Active	🛩 OK	Enterprise	WS_ManagedServer	Global		100
Install an enterprise application Configure an enterprise application		c:ws.ws.app-dt	Active	🖋 ОК	Enterprise Application	WS_ManagedServer	Global		100
Install an enterprise application Configure an enterprise application Update (redeploy) an enterprise application		E dbkls kxws.ws.app-dt	Active	 ✓ ок 	Enterprise Application Web	WS_ManagedServer AdminServer, QFSLL_ManagedServer.	Global		100
Install an enterprise application Configure an enterprise application Update (redeploy) an enterprise application Monitor the modules of an enterprise application		DMS Application (12.2.1.1.0)	Active Active	✓ ок✓ ок	Enterprise Application Web Application	WS_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer	Global Global		100
Install an enterprise application Configure an enterprise application Update (redeploy) an enterprise application Monitor the modules of an enterprise application Deploy EIB modules		DMS Application (12.2.1.1.0)	Active Active	 ОК ОК ОК 	Enterprise Application Web Application Enterprise	WS_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer AdminServer	Global Global		100 5
Install an enterprise application Configure an enterprise application Update (redeploy) an enterprise application Monitor the modules of an enterprise application Deploy EIB modules Install a Web application		DMS Application (12.2.1.1.0)	Active Active Active	• ок• ок• ок	Enterprise Application Web Application Enterprise Application	WS_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer AdminServer	Global Global Global		100 5 400
Install an enterprise application Configure an enterprise application Update (redeploy) an enterprise application Monitor the modules of an enterprise application Deploy EJB modules Install a Web application		dbks coverage coveverage coverage coverage coverage coverage co	Active Active Active	 ок ок ок ок 	Enterprise Application Web Application Enterprise Application Enterprise	WS_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer AdminServer OFSLL_ManagedServer	Global Global Global Global		100 5 400 100
Install an enterprise application Configure an enterprise application Update (redeploy) an enterprise application Monitor the modules of an enterprise application Deploy EJB modules Install a Web application rstem Status		dbkis coverse of the second	Active Active Active Active	• ок • ок • ок • ок	Enterprise Application Web Application Enterprise Application Enterprise	WS_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer AdminServer OFSLL_ManagedServer	Global Global Global Global		100 5 400 100
Install an enterprise application Configure an enterprise application Update (redeploy) an enterprise application Monitor the modules of an enterprise application Deploy EB modules Install a Web application stem Status III salth of Running Servers as of 7:44 AM		Complexity of the second	Active Active Active 5) Active Active	 ок ок ок ок ок ок 	Enterprise Application Web Application Enterprise Application Enterprise Application Web	WS_ManagedServer, OFSLL_ManagedServer, WS_ManagedServer, AdminServer OFSLL_ManagedServer AdminServer	Global Global Global Global Global		100 5 400 100 150
Install an enterprise application Configure an enterprise application Update (redeploy) an enterprise application Monitor the modules of an enterprise application Deploy EB modules Install a Web application stem Status abith of Running Servers as of 7:44 AM Failed (0)		dbks cxws.ws.app-dt cm cm cm cm cm cm cm cm cm cn cn	Active Active Active Active Active Active	 ок ок ок ок ок ок 	Enterprise Application Web Application Enterprise Application Web Application	WS_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer AdminServer OFSLL_ManagedServer AdminServer	Global Global Global Global Global		100 5 400 100 150
Install an enterprise application Configure an enterprise application Update (redeploy) an enterprise application Monitor the modules of an enterprise application Deploy EJB modules Install a Web application Install a Web application Instem Status Install AM Failed (0) Critical (0)		dbkg dbkg	Active Active Active Active Active Active	 ок ок ок ок ок ок ок 	Enterprise Application Web Application Enterprise Application Web Application Resource	WS_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer OFSLL_ManagedServer AdminServer AdminServer, OFSLL_ManagedServer,	Global Global Global Global Global		100 5 400 150 100



3. Click on application name dbkls-xxws.ws.app-dt on right side panel. The following window is displayed.

Change Center	Home Lo	g Out Preferences	Record Help			Q				
/iew changes and restarts						,	Welcome,	weblogic C	onnected to: OFSLLREL_dom	
lick the Lock & Edit button to modify, add or	Home >Sum	many of Deployments	>dbkls-xxws.ws	app-dt						
elete items in this domain.	Settings for	dbkls-xxws.ws.ap	op-dt							
Lock & Edit Release Configuration	Overview	Deployment Plan	Configuration	Security	Targets	Control	Testing	Monitoring	Notes	
unaria Obaratura	Click the Lo	ock & Edit button in	the Change Cen	ter to modif	y the settin	gs on this	page.			
SLLREL_domain	Save									
Deployments Services Security Realms	Use this pa the associa that are co	ge to view the gene ted deployment pla ntained in the enter	eral configuration n, and so on. The prise application.	of an enter; table at the Click on the	orise applic end of the name of t	ation, such e page lists he module	as its nam the module to view and	e, the physical es (such as W d update its co	path to the application files, ab applications and EJBs) infiguration.	
- Interoperability - Diagnostics	Name:	dbkls-xxws.ws.a	app-dt				The name of this enterprise application. More Info			
	Scope:	Global				Specifies within the template.	if this enterpri domain, a pa More Info	se application is accessible rtition, or a resource group		
au da I	Path:	/ scratch/ app/ OFSLLREL_dom app-dt/ archive/	fmw12c/ user_pri ain/ sysman/ upk / dbkls-xxws, ws.	ojects/ domi bad/ deploy/ apo-dt. ear	iins/ dbkls-xxw	5. WS.	The path to the source of the deployable unit on the Administration Server. More Info			
Start and stop a deployed enterprise application	Deploymer Plan:	nt (no plan specifie	ad)				The path to the deployment plan document on the Administration Server. More Info			
Configure an enterprise application Create a deployment plan	Staging	(not specified)					Specifies	whether a dep	loyment's files are copied	
Target an enterprise application to a server instance	Mode:				from a source on the Administration Server to the Managed Server's staging area during application preparation. More Info					
rest the modules in an enterprise application	Plan Stagir Mode:	ng (not specified)					Specifies copied fro	whether an ap	plication's deployment plan is the Administration Server to	
lealth of Running Servers as of 7:49 AM							the Mana preparation	ged Server's s on, More Info	taging area during application	
Failed (0) Critical (0)	Security Model:	DDOnly					The secur module.	rity model that More Info	is used to secure a deployed	
Overloaded (0) Warning (0)	<u>æ</u>	100		1			An intege	r value that in	dicates when this unit is	

4. Scroll down the page.

	President 1 and 1 March 1 March 1
	showing 1 to 1 or 1 Previous Next
ime 🗠	Туре
dbkis-sows.ws.app-dt	Enterprise Application
E EJBs	
None to display	
E Modules	
dbkis-xws-app-dt	Web Application
E Web Services	
CSSAccountDetailsRequestService	Web Service
CSSAccountPayOffQuoteRequestService	Web Service
(CSSAccountSearchRequestService)	Web Service
CSSPostTransactionsRequestService	Web Service
DisierIntegrator	Web Service
(a) ILOSPostDealerDetallsService	Web Service
LookUpRequestService	Web Service
LOSApplicationAccountWebService	Web Service
(a) LOSApplicationCommentUpdateService	Web Service
LOSApplicationLocationUpdateService	Web
(a) LOSApplicationRequestService	Web Service
LOSApplicationSearchRequestService	Web Service
(a) LOSApplicationUpdateService	Web Service
LOS Calculators Web Service	Web Service
(a) LOSCheckStatusRequestService	Web Service
(a)LOSeApplicationRequestService	Web Service
(LOSEContractService	Web Service
(@)LOSPostAccountUpdateService	Web Service
COS PostStatusRequestService	Web Service
	Showing 1 to 1 of 1 Previous Next



5. Click 'WebServices CSSAccountSearchRequestService'. The following window is displayed.

Change Center	Home Lo	og Out Preferend	es 🔤 Rec	ord Help		Q
/iew changes and restarts						Welcome, weblogic Connected to: OFSLLREL_domai
lick the Lock & Edit button to modify, add or	Home >Sum	mary of Deployme	nts >dbkls-x	xws.ws.app-0	t >CSSAccountSearch	RequestService
delete items in this domain.	Settings for	CSSAccountSe	archReque	stService		
Lock & Edit	Overview	Configuration	Security	Testing	Monitoring	
Release Configuration				1		
omain Structure	A Web ser	vice is a set of fu	nctions pac	kaged into a	single entity that is a	vailable to other systems on a network. It is implemented
FSLLREL_domain	the Web s	va Web Service (. ervice.	JWS) file, w	hich is a Jav	a class that uses JWS	metadata annotations to specify the shape and behavior of
Environment Environment Deployments Services	This page Administra describes t	displays the gene tion Console, the the Web service.	eral configu ename of th	ration of a d ne WAR or E	eployed Web service, : JB JAR file in which it i	such as the name that appears in the Deployments table of the is packaged, and name that appears in the WSDL that
l= Interoperability l= Diagnostics	Deploymen	nt <mark>N</mark> ame:	dbkls-:	oows.ws.app	⊦dt	Name of the Web service as it appears in the Deployments table. More Info
	Module Na	ime:	dbkls-:	kws-web-dt.	war	Name of the Web service archive file, either a WAR file or EJB JAR file depending on the Web service features it implements. More Info
tow do I 🗉	Service Na	me:	CSSAc	countSearch	RequestService	Name of this Web service. This name appears in the WSDL file that defines the public contract of this Web service. More Info
Install a Web service						
Start and stop a Web service						
Attach a WS-Policy file to a Web service						
Configure Web services						
View the SOAP message handlers of a Web service						
View the WSDL of a Web service						
Test a Web service						
Monitor SOAP Web services						
Monitor SOAP Web service clients						
İystem Status 🖂						
Health of Running Servers as of 7:59 AM						
Esiled (0)						

6. Select 'Testing' tab and click '?WSDL' link in Test Point column adjacent to the service name in the table.

Change Center	Home Home	Log Out Prefere	nces 🔛 Re	ecord Help		Q	Welcome, weblogic	Connected to: OFSLLRE	L_doma
View changes and restarts	Home >Su	mmary of Deploym	nents >dbkis-	xxxxxs.ws.app-	dt >CSSAccoun	SearchRequestService			
Click the Lock & Edit button to modify, add or	Settings fo	r CSSAccountS	earchRequ	estService					
delete items in this domain.	Overview	Configuration	Security	Testing	Monitoring				
Lock & Edit	Charmen	Comparation	Jacomy	reading	r tarmaring				
Release Configuration								Second Second	
	a list of i	page to test that ts test points.	your Web s	ervice is dep	loyed and that	t is working as expected	 In the table, expand the r 	ame of the Web service to	see
Domain Structure									
B-Domain Partitions	Deploym	ient Tests							
E) - Environment							Show	ing 1 to 1 of 1 Previous	Next
Deployments	Name 4	÷				Test Point	Comments		
Security Realms	E CSSA	ccountSearchRec	uestService				Test points for this Web	Service module.	
Interoperability	/dbk/	s-xws-app-dt/CSS	SAccountSea	rchRequests	envice	?WSDL	WSDL page on server V	/S_ManagedServer	
ter blagnosbes							Show	ing 1 to 1 of 1 Previous	Next
Tostell a Web remise									
Install a Web service									
Start and stop a Web service									
Attach a WS-Policy file to a Web service									
Configure Web services									
 View the SOAP message handlers of a Web service 									
View the WSDL of a Web service									
Test a Web service									
Manitar SOAP Web services									
System Status 🖂									
System Status E Health of Running Servers as of 7:59 AM									
System Status E Health of Running Servers as of 7:59 AM Failed (0)									
System Status Image: Control of the system st									
System Status Image: Control of the status Health of Running Servers as of 7:59 AM Failed (0) Failed (0) Critical (0) Overloaded (0) Overloaded (0)									



7. The following window is displayed. The WSDL will be accessible on http before applying WS-Policy.



8. Navigate to Configuration > WS-Policy tab.



9. Click 'CSSAccountSearchRequestService'.



10. In the below window, select 'Weblogic' and click 'Next'.

Change Center	🚹 Home Log Out Preferences 🔤 Record Help
View changes and restarts	Welcome, weblogic Connected to: OFSLLREL_domai
No pending changes exist. Click the Release	Home >Summary of Deployments >dbkls-xxxxs.app-dt >CSSAccountSearchRequestService
Configuration button to allow others to edit the domain.	Configure a WebService policy
Lock & Edit Release Configuration	Back Next Finish Cancel
Domain Structure	Configure the Policy Type for a Web Service
OF511 RFL domain	Use this page to configure which kind of policies (WebLogic or OWSM) this Web Service will use.
Domain Partitions Tornain Partitions Domain Partitions Domain Partitions Deployments	Note: Once you have added a policy to this Web Service, you will only be able to add policies of the same type unless you remove all of the policies from this Web Service's endpoints and operations first.
El Services	Which kind of Web Service policies should this Web Service use?
Interoperability	
Diagnostics	© dE WebLogic
	Back Next Finish Cancel
How do I 🗉	
Install a Web service	
Start and stop a Web service	
Attach a WS-Policy file to a Web service	
Configure Web services	
View the SOAP message handlers of a Web service	
View the WSDL of a Web service	
Test a Web service	
Monitor SOAP Web services	
Monitor SOAP Web service clients	
System Status 🗉	

11. Select 'policy:Wssp1.2-Https-UsernameToken-Plain.xml' and click right arrow to move it to the selected policies list.

Change Center	😭 Home Log Out Preferences 🖂 Record Help	Welc	ome, weblogic Connected to: OFSLLREL_doma
View changes and restarts	Home >Summary of Deployments >dbkls-xxxxs.ws.app-dt >CSSAccountSearchRequestServi	ice	
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Configure a WebService policy Back Next] Finish [Cancel]		
Lock & Edit Release Configuration	Configure a WS-Policy File for a Web Service Endpoint		
Domain Structure	Use this page to configure the WS-Policy file that is associated with this Web Service en	ndpoint.	
)FSLLREL_domain - Domain Partitions - Environment	The Available Endpoint Policies window lists the WS-Policy files that are available for yo move a file to the Chosen Endpoint Policies table, then click OK to activate your update	ou to associate	e to the Web Service endpoint. Use the arrows to
···Deployments Đ-Services ···Security Realms	Service Endpoint Policies		
- Interoperability	Available Endpoint Policies:	0	hosen Endpoint Policies;
	policy:Wssp1.2-EncryptBody.xml policy:Wssp1.2-Https-BasicAuth.xml policy:Wssp1.2-Https-ClientCertReq.xml policy:Wssp1.2-Https-UsernameToken-Digest.xml policy:Wssp1.2-Https.xml policy:Wssp1.2-Sign-Wsa-Headers.xml	•	policy:Wssp1.2-Https-UsernameToken-Pla
How do I 🖂	policy:Wssp1.2-SignBody.xml policy:Wssp1.2-Wss1.0-UsernameToken-Digest-X509-Basic256.xml	>	
Install a Web service	policy:Wssp1.2-Wss1.0-UsernameToken-Digest-X509-TripleDesRsa15.x	3	
Start and stop a Web service	policy:Wssp1.2-Wss1.0-UsernameToken-Plain-X509-Basic250.xm	a	
Attach a WS-Policy file to a Web service	policy:Wssp1.2-Wss1.0-X509-Basic256.xml		
Configure Web services View the SOAP message handlers of a Web service	pointy, wsp1,2-Wss1,0-X309-5nc7yptkequest-SignKesponse.xml policy;Wssp1,2-Wss1,0-X509-SignRequest-EncryptResponse.xml policy;Wssp1,2-Wss1,0-X509-TripleDesRse15.xml	~~~~	
View the WSDL of a Web service	policy:Wssp1.2-Wss1.1-DK-X509-Endorsing.xml policy:Wssp1.2-Wss1.1-DK.xml		
Test a web service	policy:Wssp1.2-Wss1.1-EncryptedKey-X509-SignedEndorsing.xml		
Monitor SOAP Web services	policy:Wssp1.2-Wss1.1-EncryptedKey.xml policy:Wssp1.2-Wss1.1-UsernameToken-DK-xml	-	



12. Click 'OK'.



13. Browse to any folder to save Deployment Plan and click 'OK'.

hange Center	Home Lo	og Out Preferen	es 🚵 Rec	ord Help	1	Q	Welcome, weblogic	Connected to: OFSLLREL_doma
Fiew changes and restarts anding changes exist. They must be activated take effect. Activate Changes Undo All Changes	Home >Sum Messages A new d /scratch/'Pl Your de	mary of Deployme leployment plan an.xml. sployment config	nts >dbkls-xo has been su uration has	ovs.ws.app-t ccessfully c been updat	it >CSSAccour reated in ed to include t	itSearchRequest	Service	
	Settings for	CSSAccountSe	archReque	stService				
omain Structure	Overview	Configuration	Security	Testion	Monitorion			
B-Domain Parblions B-Environment Deployments B-Services B-Services D-Services D-Interopersoliity B-Diagnostics	A Web ser Service (3V This page Administra service.	vice is a set of fu VS) file, which is displays the gen tion Console, the	nctions pack a Java class anal configur aname of th	aged into a that uses . ation of a d e WAR or E	s single entity I IWS metadata eployed Web : 38 JAR file in v	that is available to annotations to sp service, such as ti which it is packag	o other systems on a network. It is in recify the shape and behavior of the he name that appears in the Deployr ed, and name that appears in the W	nplemented using a Java Web Web service. nents table of the SDL that describes the Web
	Deploymer	nt Name:	dbki	ls-xxxvvs.ws.	app-dt		Name of the Web service a table. More Info	s it appears in the Deployments
	Module Na	mė:	dbki	s-xws-web	dt.war		Name of the Web service a E3B JAR file depending on I implements. More Info	rchive file, either a WAR file or the Web service features it
Install a Web service Start and stop a Web service Attach a WS-Policy file to a Web service	Service Na	me:	CSS	AccountSer	archRequestSe	rvice	Name of this Web service. file that defines the public of service. More Info	This name appears in the WSDL contract of this Web
Configure Web services View the SOAP message handlers of a Web service								
View the WSDL of a Web service								
Test a Web service								
Monitor SOAP Web services								
Manitor SOAP Web service clients								
ystem Status 🖂								
ealth of Running Servers as of 8:13 AM								
Failed (0) Critical (0) Overloaded (0)								
Warning (0)								



14. Now you will be not able to access the WSDL on http port. Following message will be shown when you access with http URL.



Note

For SSL communication, the vendor servers seek public certificates. Hence, you need to download the certificates from vendor website and import into your java keystore. You then need to configure Weblogic to present the certificates to vendor servers for successful handshake.

15. Select the environment on the left pane. The following window is displayed.





16. Click 'Servers'.

Change Center	🔒 н	lome Log 0	ut Preferences [Record Help		Q			
View changes and restarts						w	elcome, weblo	gic Connect	ed to: OFSLLREL_don
Click the Lock & Edit button to modify, add o	Hom	e >Summary	of Environment >Su	ummary of Server	6				
delete items in this domain.	Summ	nary of Ser	vers						
Release Configuration	Conf	figuration	Control						
Domain Structure	As	erver is an i	nstance of WebLog	ic Server that run	in its own Java	Virtual Machine	(JVM) and has	its own config	guration.
PFSLLREL_domain Domain Partitions	This	s page sum	marizes each serve	r that has been co	nfigured in the o	current WebLog	ic Server domair	ı.	
Environment Deployments Services	Č2								
Security Realms	PC	ustomize t	his table						
* Interoperability Diagnostics	Sei	rvers (Filte	ered - More Colur	nns Exist)					
	Clic	ck the <i>Lock</i>	& Edit button in t	he Change Center	to activate all th	ne buttons on th	is page.		
	IN	lew Clon	e Delete				s	howing 1 to 3	of 3 Previous Next
		Name	~	Туре	Cluster	Machine	State	Health	Listen Port
łow do I	E)	AdminSe	rver(admin)	Configured			RUNNING	🛩 ок	9001
Create Managed Serviers		OFSLL_N	lanagedServer	Configured			RUNNING	🛩 ок	9003
Clone servers		WS_Man	agedServer	Configured			RUNNING	Sec.	9004
Delete Managed Servers	N	lew Clon	Delete				S	howing 1 to 3	of 3 Previous Next
Delete the Administration Server									
 Start and stop servers 	-								
 View objects in the JNDI tree 	_								
System Status									
Health of Running Servers as of 10:06 AM									
Failed (0)									
Critical (0)									
Verloaded (U)									

17. Select the Server into which the WebServices are deployed.

Change Center		(c) Home	Log Out	Preferences	Red Red	ord Help			2			
View changes and restarts									Welcome	, weblogic	Connected	to: OFSLLREL_doma
Click the Lock & Edit button to modi	fy, add or	Home >Sur	nmary o	f Environment	>Summary	of Servers	>WS_Manager	dServer				
delete items in this domain.	8	Settings for	WS N	lanagedSer	ver							
Lock & Edit		Canfinum		Destaude		Debug	Manhadan	Control	Deeleumente	Casting	Consider	Neter
Release Configuration		Connyura	LION	Protocols	Logging	Debug	Monitoring	Control	Deployments	Services	Security	Notes
		General	Cluster	r Services	Keyste	res SS	. Federation	Services	Deployment	Migration	Tuning	Overload
omain Structure		Concurren	cy H	ealth Monitor	ing Ser	ver Start	Web Services	s Coherer	nce			
SLLREL_domain												
"Environment	- 1	Click the A	Lock &	Edit button i	n the Cha	nge Center	to modify the	settings on	this page.			
- Deployments	- 1	Save										
Services Security Realms	- 1											
Interoperability	- 1	Keystores	s ensure	the secure s	torage an	d manager	nent of private	keys and tr	usted certificat	te authorities	(CAs). This	s page lets you view
Diagnostics	- 1	and defin	e variou	is keystore co	onfiguratio	ns, These	settings help yo	ou to manag	ge the security	of message	transmissio)ns.
	- 1	Kentury Dave Music and Dave Taxa (Charac									5 1 2	
	- 1	Keystores	51	Demo Iden	tity and D	erno Trust	Change		Which o the serv	onfiguration er's identity a	rules should and trust ke	d be used for finding systores? More
	- 1						NS		Info			
		- Identity	(—									
ow do T	E	Demo Ide	ntity	kss://svster	n/demoid	entity			The loca	tion of the d	emo identit	v kevstore. More
JW 00 1		Keystore:							Info			
Configure identity and trust	- 1	Dama Ida		the state					The tree		Television In	antere Generally
Configure keystores	- 1	Keystore	Type:	Kas					this is J	CS or KSS. 1	More Info	eystore, Generally,
Set up SSL		22 21222							in the second second		as record proves	
		Demo Ide Keystore	entity	•••••	•••••				The den This is n	to identity ke eadonly and	ystore's en changes wi	crypted passphrase. Il not be
ystem Status		Passphra	se:						applied.	More Info.		
ealth of Running Servers as of 10	:07 AM	- Trust -										
		Domo Ter		kees //exerter	-				The loca	tion of the d	omo truct l	Mana Tafa
Failed (0)		Denio Tru		Kasi//syste	TV U USC				THE IOCE		enio truscio	eystore: more intom
Failed (0) Critical (0)		Keystore:										
Failed (0) Critical (0) Overloaded (0)		Keystore:										
Failed (0) Critical (0) Overloaded (0) Warning (0) OVer (2)		Demo Tru Keystore	ist Type:	kss					The type JKS or K	e of the demo	o trust keys	tore. Generally, this is
Failed (0) Critical (0) Overloaded (0) Warning (0) OK (3)		Keystore: Demo Tru Keystore	ist Type:	kss					The type JKS or K	e of the demo SS. More In	o trust keys nfo	tore. Generally, this is
Failed (0) Critical (0) Overloaded (0) Warning (0) OK (3)		Demo Tru Demo Tru	ist Type: ist	kss					The type JKS or K The den	e of the demi SS. More Ir	o trust keys nfo tore's encry	tore. Generally, this is



18. Select 'Keystores'.



19. Click 'Change' and select 'Custom Identity and Custom trust' from the drop-down list.

Change Center	Home Log Out P	references 🛃	Record H	₩ D [4			
/iew changes and restarts							Welco	me, weblogic	Connected	to: OFSLLREL_dom
lick the Lock & Edit button to modify, add o	Home >Summary of En	wironment >Su	mmary of Ser	ers >W	S_Manager	dServer				
delete items in this domain.	Settings for WS_Man	agedServer								
Lock & Edit	Configuration Pro	tocols Loc	aina Dehu	n M	nitoring	Control	Deploymen	ts Services	Security	Notes
Release Configuration	comparation m		ging bub	9 1 14	and strong		orden de la construction		Jaconey	
	General Cluster	Services I	leystores	SSL	Federation	Services	Deployme	nt Migration	Tuning	Overload
omain Structure	Concurrency Healt	th Monitoring	Server Sta	rt W	eb Services	Cohere	nce			
Domain Partitions Environment Deployments Services	Click the Lock & Ed	it button in th	e Change Ce	nter to I	nodify the :	settings on	this page.			
Security Realms 3- Interoperability 3- Diagnostics	<i>Keystores</i> ensure th and define various k	e secure stora eystore config	ge and mana jurations. Th	gement sse sett	of private ngs help yo	keys and ti ou to mana	rusted certif ge the secu	cate authorities rity of message	: (CAs). Thi: transmissic	s page lets you view ins.
	Keystores:		Custo Char	n Identi ge	ty and Cust	tom Trust	Which the s Info	configuration erver's identity	rules should and trust ke	d be used for finding systores? More
	- Identity									
łow do I	Custom Identity Ke	store:					The s	ource of the ide	antity keyst	ore. For a JKS
Configure identity and trust Configure keystores							Oracl the K	ore, the source a Key Store Ser SS URI. More	is the path vice (KSS) Info	and file name. For an reystore, the source is
Set up SSL	Custom Identity Ke	eystore Type	•				The tusing	ype of the keys the Oracle Key	tore. Gener Store Servi	ally, this is JKS. If ice, this would
aystem Status	в						DEKS	5 More Info		
Health of Running Servers as of 10:11 AM	Custom Identity Ke Passphrase:	eystore					The en If em witho	ncrypted custo pty or null, the ut a passphrase	n identity k the keysto . More In	eystore's passphrase. are will be opened fo
Critical (0) Overloaded (0) Warning (0)	Confirm Custom Id Passphrase:	entity Keyst	ore							
OK (3)	Irust									
	Custom Trust Keys	tore:					The s keyst	ource of the cu ore, the source	stom trust l is the path	eystore. For a JKS and file name. For an

Specify

- Custom Identity Keystore: Java keystore holding the certificates
- Custom Trust Keystore: Java keystore holding the certificates
- Custom Identity Keystore Type: jks
- Custom Trust Keystore Type: jks
- %Keystore Passpharses: keystore password



20. Click **Save**. The WSDL can be accessed on https port as below. The WS-Policy will be shown in WSDL.



Apply WS-Policy policy:Wssp1.2-Https-UsernameToken-Plain.xml to the following WebServices.

- CSSAccountDetailsRequestService
- CSSAccountPayOffQuoteRequestService
- CSSAccountSearchRequestService
- CSSPostTransactionsRequestService



5. Verifying Successful Installation

5.1 <u>Steps to Verify Successful Webservices deployment:</u>

- 1. Ensure that the state is ACTIVE and health is OK in the Weblogic
- 2. Accessing the WSDL using: http://<hostname>:<port>/<context root>/ CSSAccountDetailsRequestService?WSDL and receiving error: "No valid XML found"

5.2 <u>Steps to Verify Successful Interface (Route One) de-</u> ployment:

- 1. Ensure that the state is ACTIVE and health is OK in the Weblogic
- 2. Accessing the interface URLs mentioned below from the browser and receiving error: "No valid XML found":
 - "http://<hostname>:<port>/<context root>/postdt2xws?xaeprc
 - "http://<hostname>:<port>/<context root>/postds2xws?xaeprc
 - "http://<hostname>:<port>/<context root>/postro2xws?xaeprc



6. Enable Logging

6.1 Enabling WebService Log

It is not recommended to enable WebServices log while running in production environment. The logging should be enabled in production only for debugging purpose by following the below mentioned steps.

- 1. The log file path has to be specified in 'logging.properties' file.
- 2. The file is available inside config folder. Navigate to dbkls-xxws.ws.app-dt.ear/dbkls-xwsweb-dt.war/WEB-INF/classes/config/
 - Edit the following with the log file path: java.util.logging.FileHandler.pattern=<Path>/dbkls_xws_%g.log
- 3. Restart the managed server (in which services are deployed) with the following argument:

Туре	Description
Argument	Djava.util.logging.config.file= <path above="" file="" logging.properties="" of="" the="">/log-ging.properties</path>
Example	nohup ./startManagedWebLogic.sh - Djava.util.logging.config.file= <path of="" the<br="">above logging.properties file>/log- ging.properties &</path>

- 4. The login levels can be set through the logging.properties file. Un-comment the level required in the logging.properties file
 - #com.ofss.fll.xws.level=FINEST
 - #com.ofss.fll.xws.level=FINER
 - #com.ofss.fll.xws.level=FINE
 - #com.ofss.fll.xws.level=CONFIG
 - #com.ofss.fll.xws.level=INFO

6.2 Enabling SQL Log for WebServices Component

It is not recommended to enable WebServices SQL log while running in production environment. The logging should be enabled in production only for debugging purpose by following the below mentioned steps:

- 1. The CMN_DEBUG_LEVEL system parameter should be enabled and set to appropriate non-zero value.
- 2. The CMN_DEBUG_METHOD system parameter should be enabled and set to appropriate non-zero value.



3. The respective package debug level for the webservice should be enabled and set to appropriate non-zero value in system parameter. Please refer the below table to for the service and debug level mapping.

Service			
DialerIntegrator: xcsadi_em_100_01	To receive loan applica- tion from dealer track: XAEPRC_EM_100_01	To receive edocs application update : XAE- EDS_EM_100_01	To receive loan application from route one:XAE- PRC_EM_100_01
CSSAccountDe- tailsRequestSer- vice: XCSPRC_EM_100 _01	To receive loan applica- tion/deal update from dealer track: XAEUP- D_EM_100_01	To receive edocs comment update : XAE- EDS_EM_100_01	To receive loan application/deal refresh from route one : XAEUP- D_EM_100_01
CSSAccount- SearchRequest- Service: XCSACS_EM_100 _01	To receive comments from dealer track : XAEPRC_EM_100_01	To receive edocs location update : XAE- EDS_EM_100_01	To receive com- ments from route one: XEAUP- D_EM_100_01
CSSPostTransac- tionsRequestSer- vice: XCSUP- D_EM_100_01	To post comments to dealer track: XAECH- K_EM_100_01		To post com- ments to route one: XAECH- K_EM_100_01
CSSAccountPay- OffQuoteRequest- Service: N/A	To post application sta- tus to dealer track: XAECHK_EM_100_01		To post applica- tion status to route one: XAECH- K_EM_100_01
LOSeApplication- RequestService: XAE- EDS_EM_100_01	To post dealer details to dealer track: XPR- PRC_EM_100_01		To post dealer details to dealer track: XPR- PRC_EM_100_01
LOSApplication- RequestService: XAE- PRC_EM_100_01			
LOSApplication- SearchRequest- Service: XAE- QUE_EM_100_01			
LOSApplication- LocationUpdate- Service: XAE- EDS_EM_100_01			



Service		
LOSApplication- CommentUpdate- Service: XAE- EDS_EM_100_01		
LOSPostStatusRe- questService: XAECH- K_EM_100_01		
LOSApplica- tionUpdateSer- vice: XAEUP- D_EM_100_01		
LOSCheckStatus- RequestService: XAECH- K_EM_100_01		
LOSEcontractSer- vice:		
XACPRC_EM_100 _01		



7. Configuring RESTful WebService

Follow the below steps to configure RESTful WebService.

- Create Data Sources for RESTful WebService
- OAuth Implementation
- Deploy RESTful WebService

7.1 Create Data Sources for RESTful WebService

1. Login to Oracle Weblogic 12c console (http://hostname:port/console).

ORACLE WebLogic Server Administration	n Console 12c
120	Welcome Log in to work with the WebLogic Server domain Username: Password: Login
WebLogic Server Version: 12.2.1.3.0 Copyright (c) 1996.2017, Oracle and/or its affiliates. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademark	is of their respective owners.

2. On successful login, the following window is displayed.

Change Center	Home Log Out Preferences	Record Help	<u>.</u>
View changes and restarts		Welcor	ne, weblogic Connected to: OFSLLREL_dom
Click the Lock & Edit button to modify, add or	Home		
delete items in this domain.	Home Page		
Lock & Edit	- Information and Resources		
Release Configuration	Information and Resources		
	Helpful Tools	General Information	
Jomain Structure	Configure applications	 Common Administration Task Des 	scriptions
+SLLREL_domain	 Configure GridLink for RAC Data Source 	 Read the documentation 	
Denvironment	Configure a Dynamic Cluster	 Ask a question on My Oracle Sup 	port
Deployments	Recent Task Status		
Security Realms	Set your console preferences		
1 Interoperability	Oracle Enterprise Manager		
Diagnostics			
	- Domain Configurations		
	Domain	Resource Group Templates	Interoperability
	Domain	Resource Group Templates	WTC Servers
	The second		Jolt Connection Pools
tow do I	Domain Partitions	Resource Groups	
100 00 1	Domain Partitions	Resource Groups	Diagnostics
 Search the configuration 	Partition Work Managers		Log Files
Use the Change Center	E Contraction of the second second	Deployed Resources	Diagnostic Modules
Record WLST scripts	Environment	 Deployments 	 Built-in Diagnostic Modules
Change Console preferences	Servers		Diagnostic Images
Manage Console extensions	Clusters	Services	Request Performance
 Monitor servers 	Server Templates	Messaging	Archives
	Migratable Targets	JMS Servers	Context
ystem Status	Coherence Clusters	 Store-and-Forward Agents 	SNMP Internetter
lealth of Running Servers as of 11:23 AM	Machines	 JMS Modules 	 interceptors
Failed (0)	VIFUAI HOSTS	Path Services	Charts and Graphs
Critical (0)	Virtual Targets	Bridges	citarts and oraphis



3. Click Domain Name > Services > Data Sources. The following window is displayed.

Change Center	1 Home	Log Out Preference	s 🚵 Re	cord Help	Q							
View changes and restarts				v	Nelcome, weblogic Connected to: OFSLLREL_doma							
Click the Lock & Edit button to modify, add or	Home >Su	Home >Summary of JDBC Data Sources										
delete items in this domain.	Summary of JDBC Data Sources											
Lock & Edit	Configura	ation Monitoring										
Release Configuration	comgen	choir choirteaning										
omain Structure	A JDBC o	data source is an obje	ect bound	to the JNDI tree that provides	database connectivity through a pool of JDBC							
FSLLREL_domain	connectio	ons. Applications can	look up a	data source on the JNDI tree a	and then borrow a database connection from a data							
Domain Partitions	source.											
1 Environment	This pag	e summarizes the JD	BC data s	ource objects that have been cr	reated in this domain.							
Deployments												
1 Services	₽ Custom	ize this table										
Data Sources												
Persistent Stores	Data Sou	Data Sources (Filtered - More Columns Exist)										
- Foreign INDI Providers	Obstation -	Click the Lock & Edit button in the Change Center to activate all the buttons on this page.										
Work Contexts	Click the	LOCK & EDIE DUCTON	in the Cha	inge Center to activate all the b	outtons on this page.							
	New -	Delete	in the Cha	inge Center to activate all the b	suttons on this page. Showing 1 to 9 of 9 Previous Next							
-Work Contexts -XML Registries -XML Entity Caches	New -	Delete	in the Cha	inge Center to activate all the b	Showing 1 to 9 of 9 Previous Next							
Work Contexts 	New -	Delete	n the Cha	JNDI Name	Showing 1 to 9 of 9 Previous Next							
Work Contexts 	New -	Delete me 🗠	n the Cha Type Generic	nge Center to activate all the b JNDI Name jdbc/aqjmsdb	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer							
Work Contexts XML Registries XML Entry Caches 	New -	Delete me 🗠 -JMS-DB c/dbk105nlEJBDS	n the Cha Type Generic Generic	JNDI Name jdbc/aqjmsdb jdbc/dk105nlEJBD5	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer W5_ManagedServer							
Work Contexts WML Registries XML Entry Caches - COM - Mail Sestions - Create JDBC generic data sources - Create JDBC Grid link data sources	New	Delete me & JMS-DB c/dbk105nlEJBDS ralSvcTblDataSource	n the Cha Type Generic Generic Generic	JNDI Name jdbc/aqjmsdb jdbc/dbk105nIEJBDS jdbc/LocalSvcTbIDataSource	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer WS_ManagedServer AdminServer							
Work Contexts Work Contexts Work Contexts Work Contexts Walk Registries Walk Cestions Walk Cestions Weak Cestions Weak Cestions Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC multi data sources	New - Na AQ jdb Loc	Delete me JMS-DB c/dbk105nlEJBDS alSvcTblDataSource s-adf	Type Generic Generic Generic Generic	JNDI Name jdbc/aqjmsdb jdbc/dqjmsdb jdbc/dbk105nIEJBDS jdbc/LocalSvcTbIDataSource jdbc/mds/adf	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer WS_ManagedServer AdminServer, OFSLL_ManagedServer							
Work Contexts Work Contexts Work Contexts Will Registries Will Entity Caches JOD Mail Seations tow do Lu. Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC multi data sources Create JDBC multi data sources Create JDBC multi data sources	New - Na AQ jdb Loc md	Delete me ~ -JMS-DB c/dbk10SnlEJBDS alSvcTblDataSource s-adf SLL	Type Generic Generic Generic Generic Generic	JNDI Name jdbc/aqjmsdb jdbc/aqjmsdb jdbc/localSvcTblDataSource jdbc/localSvcTblDataSource jdbc/ofsilDBConnDS	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer WS_ManagedServer AdminServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer							
Work Contexts -XML Registries -XML Inty Caches -JODM -Mail Sestions ov do I Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC GridLink data sources Create JDBC GridLink asources Create JDC data sources Create Proxy data sources	New	me & JMS-DB c/dbk105nlEJBDS alSvcTblDataSource s-adf SLL sis-audit-DBDS	Type Generic Generic Generic Generic Generic Generic	JNDI Name jdbc/aqjmsdb jdbc/dbk105nIEJBD5 jdbc/dbk105nIEJBD5 jdbc/cocalSvcTbIDataSource jdbc/ofsIIDBConnD5 jdbc/AuditAppendDataSource	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer WS_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer, WS_MANAgedS							
Work Contexts WML Registries MML Entry Caches JCOM Mail Sessions Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC GridLink data sources Create UCP data sources Create Proxy data sources Create Proxy data sources Create Sources Create Sources Create Sources	New + New + Job Na Job	me & JMS-DB c/dbk105nlEJBDS alSvcTbIDataSource s-adf SLL is-audit-DBDS is-audit-ViewDS	Type Generic Generic Generic Generic Generic Generic Generic	JNDI Name jdbc/aqjmsdb jdbc/dsh105nIEJBDS jdbc/dbk105nIEJBDS jdbc/ofslIDBConnDS jdbc/ofslIDBConnDS jdbc/AuditAppendDataSource jdbc/AuditViewDataSource	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer W5_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer, W5_ManagedServer, W5_MAnag							
Work Contexts With Contexts Create JDBC generic data sources Create JDBC GridLink data so	New + Na AQ jdb Loc md ops	IDERETE IDE	Type Generic Generic Generic Generic Generic Generic Generic Generic	JNDI Name jdbc/aqjmsdb jdbc/dbk105nlEJBDS jdbc/dbk105nlEJBDS jdbc/dbk105nlEJBDS jdbc/mds/adf jdbc/mds/adf jdbc/AuditAppendDataSource jdbc/AuditViewDataSource jdbc/OpssDataSource	Showing 1 to 9 of 9 Previous Next Targets OFSLL_ManagedServer WS_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer WS_ManagedServer, WS_WS_WS_MANAgedServer, WS_WS_WS_WS_WS_WS_WS_WS_WS_WS_WS_WS_WS_W							

4. Click 'Lock & Edit' button on the left panel. Click 'New' on right panel and select 'Generic Data Source'.

hange Center		Home Log O	ut Prefer	rences 🚵	Record Help	Q				
liew changes and restarts					1	Welcome, weblogic Connected to: OFSLLREL_dom				
o pending changes exist. Click the Releas	e	Home >Summar	y of JDBC	Data Sour	085					
onfiguration button to allow others to edit omain.	the	Summary of JDB	C Data S	Sources						
Lock & Edit		Configuration	Monitor	ring						
Release Configuration										
omain Structure		A JDBC data so connections. Ap	urce is an plications	n object bou s can look u	nd to the JNDI tree that provides p a data source on the JNDI tree	database connectivity through a pool of JDBC and then borrow a database connection from a data				
SLLREL_domain		source.								
Domain Partitions	\sim	This page summ	narizes th	e JDBC dat	a source objects that have been c	reated in this domain.				
- Deployments										
Services		Customize thi	s table							
Messaging		20.0 22 8	-							
Data Sources		Data Sources (Filtered	- More Co	lumns Exist)					
Foreign JNDI Providers		New Delete Showing 1 to 9 of 9 Previous Next								
Work Contexts		Generic Data S	Source	Туре	JNDI Name	Targets				
-XML Entity Caches		GridLink Data	Sourd	Gene	ric jdbc/aqjmsdb	OFSLL_ManagedServer				
	×.	- Multi Data Sou	irce	S Gene	ric jdbc/dbk105nlEJBDS	WS_ManagedServer				
ow do I	8	UCP Data Sou	rce	urce Gene	ric jdbc/LocalSvcTblDataSource	AdminServer				
Create JDBC generic data sources		-mos-aor	_	Gene	ric jdbc/mds/adf	AdminServer, OFSLL_ManagedServer				
Create JDBC GridLink data sources		OFSLL		Gene	ric jdbc/ofsllDBConnDS	AdminServer, OFSLL_ManagedServer				
Create JDBC multi data sources		🔲 opss-audit	-DBDS	Gene	ric jdbc/AuditAppendDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer				
Create Proxy data sources		opss-audit	-viewDS	Gene	ric jdbc/AuditViewDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer				
ystem Status		opss-data-	source	Gene	ric jdbc/OpssDataSource	AdminServer, OFSLL_ManagedServer, WS_ManagedServer				
ealth of Running Servers as of 7:58 PM		WLSSchen	naDataSo	urce Gene	ric jdbc/WLSSchemaDataSource					
Failed (0)		New - Dela	ete:			Showing 1 to 9 of 9 Previous Next				
Critical (U)										



5. The following window is displayed.

Change Center	🔒 Home Log Out Preferences 🔤 Record Help	
View changes and restarts	Welcome, weblogic Connected to: OFSLLREL_do	main
No pending changes exist. Click the Release	Home >Summary of JDBC Data Sources	
Configuration button to allow others to edit domain.	2 Create a New JDBC Data Source	
Lock & Edit	Back Next Finish Cancel	
Release Configuration	JDBC Data Source Properties	
Domain Structure	The following properties will be used to identify your new JDBC data source.	
)FSLLREL_domain	* Indicates required fields	
-Domain Partitions		
- Deployments	What would you like to name your new JDBC data source?	
El-Services		
Messaging	d∰ [*] Name: OfsliREST	
Data Sources		
Persistent Stores Foreign JNDI Providers	What scope do you want to create your data source in ?	
	Scope: Global V	
	What JNDI name would you like to assign to your new JDBC Data Source?	
Mail Sessions		
How do I		
	Jape/ Orsiiwsbs	
 Create JDBC generic data sources 		
Create LLR-enabled JDBC data sources		
System Status		
Health of Running Servers as of 7:59 PM	What database type would you like to select?	
Failed (0)	Database Tuese	
Critical (0)		
Overloaded (0)		- L
Warning (0)	Back Next Cancel	
OK (3)		- 1

- 6. Specify the following details:
 - Enter Data source Name
 - Enter the JNDI Name as 'jdbc/OfsllWSDS'.
 - Select 'Oracle' as Database Type.
- 7. Click 'Next'. The following window is displayed.

Change Center	😰 Home Log Out Preferences 🚈 Record Help
View changes and restarts	Welcome, weblogic Connected to: OFSLLREL_doma
No pending changes exist. Click the Release Configuration button to allow others to edit the	Home > Summary of JDBC Data Sources
Lock & Edit	Back Next Finish Cancel
	JDBC Data Source Properties
Domain Structure	The following properties will be used to identify your new JDBC data source.
Deployments	Database Oracle Type:
Deta Sources Deta Sources	What database driver would you like to use to create database connections? Note: * indicates that the driver is explicitly supported by Oracle WebLogic Server.
Foreign JNDI Providers Work Contexts XML Registries	Database "Oracle's Driver (Thin) for Service connections; Versions: Any
XML Entity Caches 	· · · · · · · · · · · · · · · · · · ·
How do I E	
Create JDBC generic data sources Create LLR-enabled JDBC data sources	
System Status	
Health of Running Servers as of 8:00 PM	
Failed (0)	
Critical (0)	
Verloaded (0)	
warning (u)	

8. Select the Database Driver 'Oracle's Driver(Thin) for Services connections;Versions:Any'.



Change Center	A Home Log Out Preferences 🖂 Record Help
View changes and restarts	Welcome, weblogic Connected to: OFSLLREL_domain
No pending changes exist. Click the Release Configuration button to allow others to edit the	Home >Summary of JDBC Data Sources
domain.	Create a New JDBC Data Source
Lock & Edit	Back Next Finish Cancel
Release Configuration	Transaction Options
Domain Structure	You have selected non-XA JDBC driver to create database connection in your new data source.
OFSLLREL_domain	Does this data source support global transactions? If yes, please choose the transaction protocol for this data source.
-Deployments	Supports Global Transactions
Messaging Data Sources	Select this option if you want to enable non-XA JDBC connections from the data source to participate in global transactions using the <i>Logging Last Resource</i> (LLR) transaction optimization. Recommended in place of Emulate Two-Phase Commit.
Persistent Stores Foreign JNDI Providers	O Logging Last Resource
Work Contexts XML Registries	Select this option if you want to enable non-XA JDBC connections from the data source to emulate participation in global transactions using JTA. Select this option only if your application can tolerate heuristic conditions.
jCOM Mail Sessions	C Emulate Two-Phase Commit
How do I	Select this option if you want to enable non-XA JDBC connections from the data source to participate in global transactions using the one-phase commit transaction processing. With this option, no other resources can participate in the global
Create JDBC generic data sources	transaction.
Create LLR-enabled JDBC data sources	One-Phase Commit
System Status	Back Next Finish Cancel
Health of Running Servers as of 8:02 PM	
Failed (0)	
Critical (0)	
Overloaded (0)	
Warning (0)	

10. Click 'Next'. The following window is displayed.

Change Center	Home Log Out Preferences	Record Help
View changes and restarts		Welcome, weblogic Connected to: OFSLLREL_domain
No pending changes exist. Click the Release	Home >Summary of JDBC Data	Sources
Configuration button to allow others to edit the domain.	Create a New JDBC Data Sour	ce
Lock & Edit	Back Next Finish Ca	incel
Release Configuration	Connection Properties	
Iomain Structure	Define Connection Properties.	
FSLLREL_domain	What is the name of the databas	se you would like to connect to?
- Environment - Deployments - Services	Database Name:	OLLDB
Messaging Data Sources	What is the name or IP address	of the database server?
Persistent Stores Foreign JNDI Providers Work Contexts	Host Name:	ofsil.oraice.com
XML Registries	What is the port on the database	e server used to connect to the database?
XML Entity Caches jCOM Mail Sessions	Port:	1521
low do I 🗉	What database account user nar	me do you want to use to create database connections?
Create JDBC generic data sources Create LLR-enabled JDBC data sources	Database User Name:	OFSLLREL
	What is the database account pa	assword to use to create database connections?
System Status	Password:	
Health of Running Servers as of 8:07 PM		
Failed (0) Critical (0)	Confirm Password:	••••••
Overloaded (0) Warning (0)	Additional Connection Properties	16
OK (3)	oracle.jdbc.DRCPConnection	Class:

11. Enter the Database details.

Change Center	1 Home Log C	ut Preferences 🚵 Record Help
View changes and restarts		Welcome, weblogic Connected to: OFSLLREL_domain
No pending changes exist, Click the Release	Home >Summa	y of JDBC Data Sources
Configuration button to allow others to edit t domain.	Create a New J	BC Data Source
Lock & Edit	Test Configurat	nn Bank Nevt Finish Cannel
Release Configuration	Test optingurat	
	Test Databas	2 Connection
Iomain Structure	Test the datab	ise availability and the connection properties you provided.
(FSLLREL_domain	What is the full	backage name of JDBC driver class used to create database connections in the connection pool?
Environment	(Note that this d	river class must be in the classoath of any server to which it is deployed.)
Deployments	1. A construction of the second	and and an and a second second second second second second second
Messaging	Driver Class N	ime: Aracle ideo OracleDriver
Data Sources		
Persistent Stores	What is the URL	of the database to connect to? The format of the URL varies by JDBC driver.
Work Contexts	101.	
XML Registries	UKL:	jdbc:oracle:thin:@//ofsll.oralce.com:1521/OLLDB
-jCOM	What database	crount user name do you want to use to create database connections?
Mail Sessions		
How do I	Database User Name:	OFSLLREL
Create JDBC generic data sources		
Create LLR-enabled JDBC data sources	What is the data	base account password to use to create database connections?
	(Note: for secur	password management, enter the password in the Password field instead of the Properties field below)
System Status		
Health of Running Servers as of 8:07 PM	Password:	*****
Failed (0)		
Critical (0)	Confirm Passv	ord:
Overloaded (0)		
OK (3)	What are the pr	perties to pass to the JDBC driver when creating database connections?
	Properties:	

- 13. Click 'Test Configuration'. On completion, displays a confirmation message as 'Connection test succeeded'.
- 14. Click 'Next'. The following window is displayed.

Change Center	🔒 Home Log Out Preferences 🗁 Record Help	
View changes and restarts	Welcome, weblogic Connected to: OFSLLR	EL_domain
No pending changes exist. Click the Release Configuration button to allow others to edit domain. Lock & Edit Release Configuration	Home >Summary of JDBC Data Sources Create a New JDBC Data Source Back Next Finish Cancel Salert Terrate	
Domain Structure	You can select one or more targets to deploy your new JDBC data source. If you don't select a target, the data source be created but not deployed. You will need to deploy the data source at a later time.	e will
UP: Domusic Purson (F) Environment Deployments (C) Services (F) Messaging (F) Messaging (F	Servers AdminServer OFSLL_ManagedServer SwS_ManagedServer Back Next Finish Cancel	
How do I		
Create JDBC generic data sources Create LLR-enabled JDBC data sources		
System Status		
Health of Running Servers as of 8:11 PM Failed (0) Critical (0) Overloaded (0) Warning (0) OK (3)		

- 15. Select target Server as 'WS_ManagedServer'.
- 16. Click Advanced button and update the 'Inactive Connection Timeout' to 300 seconds.



17. Click 'Finish' to activate the changes.

7.2 OAuth Implementation

(Optional) To extend OFSLL SaaS, OAuth2 can be used for securing OFSLL web services user access Authentication.

Web services authentication using OAuth2 is one of the best approach for securing user authentication to extend OFSLL SaaS. This uses Oracle / Non-Oracle PaaS to authenticate service access request from an external partner application without sharing OFSLL environment access credentials (UID / Password) and leverages the built-in support for OAuth 2.0.

OAuth 2.0 is an open standard token-exchange technology for verifying a user's identity across multiple systems and domains without risking the exposure of a password.

For detailed information, refer to the OAuth Implementation guide shared in OTN library: https://docs.oracle.com/cd/F22291_01/references.htm.

7.3 Deploy RESTful WebService

1. Login to Web Logic application server enterprise manager (e.g.:<u>http://hostname:port/em</u>)

ORACLE ENTERPRISE MANAGER FUSION MIDDLEWARE CONTROL 1	2c
Domain_OFSLLREL_domain * User Name * Password Login to Partition Sign in	
	ORACLE



2. Enter valid login credentials. The following window is displayed.



- 3. Select 'Lock & Edit' option in the lock drop-down list available in the header.
- 4. Click 'Deployment' in the left panel. The following window is displayed.

OFSLLREL_domain 0						1	- 🖂 👻	Auto Refresh	Off			
							Edit Sessions		M IST			
Information							Lock & Edit	N	6			
Certain functionality on this page is	is available only when you own the edit see	ision lock. T	lo obtain ti	ne lock, click	"Lock and	Edit" in t	View Change	List				
C	4						View & Reso	lve Conflicts				
Servers	Administration Server						Release Con	figuration				
	Name AdminSer	rver					Activate Cha	nges				
3 Up	Host ofsil.in.or	scle.com					Undo All Cha	inges				
	1						View Restart	Checklist				
Oliverta and	Listen Port 9001						Professees					
Clusters	Servers						Freierences					
0 🕨	View 👻 🍟 Create 🗙 Delete	View • 🦉 Create 🗙 Delete Control • 🕎						нер				
Clusters	Name	Status	Cluster	Machine	State	Health		Listen Port				
	AdminServer(admin)	1			Running	OK		9001				
	OFSLL_ManagedServer	1			Running	OK		9003				
Deployments	WS_ManagedServer	1			Running	OK		9004				
3 Up												
Domain Partitions												
Domain Partitions												
bonnann randiara p												
0												



5. Select 'Deploy' from the Deployment drop-down list. The following window is displayed.

OFSLLREL_domain 0										1	- 1	~ *	Auto Refresh	Off	
📕 WebLogic Domain 👻												D	Dec 6, 2019 4:57:09 PM	IST	-
Confirmation The edit session lock has been	acqui	ired. Ne	o pen	iding changes exi	ist.										
Servers		Deple	oym	ents											
	•	View	e w	Show All	De	eployment 👻	Override 🔻	Contra	ol 🐨 🖪	Ŧ					
J Up		1			10	Deploy				٠		•		٠	
				Name	E	Redeploy			State		Health		Туре		
lusters			•	()) ofs 148(V14	Ň	Eatch Deploy	nent Plan		Active		OK		Enterprise Applicatio	n	
				in opss-rest		(cash beproji	T		Active		OK		Web Application		
eployments															
omain Partitions															
0															
Domain Partitions	•	4													

6. The following window is displayed.

Select Archive Select Target Application Attributes Deployment Settings	
eploy Java EE Application: Select Archive	Back Step 1 of 4 Next Gan
Scope Sectors	Al Information View Internation View Internation
Deployment Flat: Mandphilor types, a site bat, are served, in deploy type, and a served served of the served serv	P. If you

- 7. Browse to the folder containing the WebService. Eg: C:/OfsllRestEAR.ear
- 8. Click 'Next'. The following window is displayed.

	_domain 💿		
	Select Target App	Idation Attributes Deployment Settings	
ploy	Java EE Application: Select	Target	Banh Step 2 of 4 Next Canad
Select #	e WebLogic server or cluster that you war	it this application to be deployed to.	
Getect	Name	Type	Deployed Applications
4100	AdminGerver	Oracle WebLogic Server	
4000	OFSLL_ManagedServer	Oracle WebLogic Server	~~~
		Oracle WebLogic Server	~
-			

9. Select the server on which the WebService needs to be deployed.



DFSLLREL_domain ()								
0	0	•						
Select Archive	Select Target	Application E Attributes	Deployment Settings					
Deploy Java EE A	oplication: Ap	plication Attributes	s	Back	Step 3 of 4	Next	Deploy	Cance
A Hide Deployment Summ	nary							1
Archive	Type Java EE Appli	ation (EAR file)						
Deployment	Plan Create a new	slan						
Deployment T	arget WS_Managed	Server						
s	cope Global							
Deployment	Type Application							
* Applicatio	n Name OfsliRestEA	R						
Contant Dans of Male M	Junes							
Context Root of Web Me	Context Rev							
Context Root of Web Me Web Module	Context Roo	ət.						

- 11. Select the option 'Install and start application (servicing all requests)'.
- 12. Check the context root and click 'Next'. The following window is displayed.

FSLLREL_domain 🚯												
0	0	<	2									
Select Archive Si	elect Target	Application	Attributes	Deployme	nt Settings							
eploy Java EE App	lication: D	eployme	nt Settin	gs				Back	Step 4 of 4	Next	Deploy	Cance
Hide Deployment Summar	у											1
Archive Typ	pe Java EE App	plication (EAR	file)									
Deployment Pla	an Create a nev	v plan										
Deployment Targ	et WS_Manage	edServer										
Sco	pe Global											
Deployment Typ	pe Application											
Application Nan	ne OfsliRestEA	R										
Versio	on Not versione	d										
Context Ro	ot OfsliRestWS											
Deployment Mod	de Install and st	tart application	(servicing al	ll requests)								
Deployment Tasks												
The table below lists common t	asks that you ma	y wish to do b	efore deployi	ing the applica	tion.							
Name	Go	To Task	Description	1 0								
Configure Web Modules		1	Configure th	ne Web module	es in your applic	ation.						
Configure Application Security	r	/	Configure a	pplication polic	v migration, cre	dential migrati	on and other se	curity be	havior.			

13. Click 'Deploy'. On successful deployment, the following window is displayed.

Deployment of Applicat activate or undo the ch	tion "OfsliRestEAR" is completed. The deployment changes are pending activation. Exit the wizard and use the Change Center to andes.
Summary	
Scope	Global
Version	Not versioned
Deployed Archive Location	/u011Middleware/Weblogic12cHome/user_projects/domains/OFSLLREL_domain/sysman/upload/deploy/Ofsl/RestEAR/archive/ Ofsl/RestEAR.ear
Archive Type	Java EE Application (EAR file)
Deployment Mode	Install and start application (servicing all requests)
Deployment Target	WS_ManagedServer
Application States	Unavailable (WS_ManagedServer)
Context Root	OfsIIRestWS
Hide Progress Mes	sages
[26 September 20 [26 September 20 [26 September 20 OfslRestEAR/arch [26 September 20 occurs, task proce [26 September 20	17 20 250 Ordoki IST Inisting debyt operation: 17 20 251 ordoki IST Javing the scale configuration changes to archive. 17 20 251 ordoki IST Javing the scale configuration changes to archive. 17 20 251 ordoki IST JAcobiev: I/011Middleware/WeblogicT2cHomeUser_projects/domains/OFSLLREL_domain/sysman/upload/deploy/ 17 20 251 ordoki IST J Deploy.er: 140140The task cannot be processed further until the current edit session is activated. When this sing will continue. 17 20 25:31 ordoki IST Deploy operation completed.



14. Click 'Close'. Post deployment, you need to activate the changes by selecting 'Active Changes' option from 'Edit Session' drop-down list as indicated in step 4 above.

To Identify the RESTful Webservice URL

- 1. Login to WebLogic Server 12c console (http://hostname:port/console).
- 2. Click 'Deployments' Under Configuration tab and select 'OfsllRestEAR' services. The following window is displayed.

mma	ry of Deployments							
Config	guration Control	Monitoring						
This You then To in Cust	page displays the list can update (redeploy) using the controls on stall a new application comize this table	of Java EE appl or delete instal this page. n or module for	ications and lled applical deploymen	d standalone tions and mo t to targets in	application modules install dules from the domain by n this domain, click Instal	ed to this do selecting the	main. • checkbox next to the a	application name and
Deple	oyments	- 20						
Deple Inst	oyments all Update Dele	ite					Showing 31 to 40	of 61 Previous Next
Inst	oyments all Update Dele Name 🐟	State	Health	Туре	Targets	Scope	Showing 31 to 40	of 61 Previous Next
Inst	Name A Mane A Modl.clickhistory (1.0,12.2.1)	State Active	Health	Type Library	Targets AdminServer, OFSLL_ManagedServer, WS_ManagedServer	Scope Global	Showing 31 to 40	of 61 Previous Next Deployment Order
Inst	All Update Dele Name A Control Control Contr	state State Active	Health	Type Library Library	Targets AdminServer, OFSLL_ManagedServer, WS_ManagedServer, OFSLL_ManagedServer, WS_ManagedServer	Scope Global Global	Showing 31 to 40 Domain Partitions	of 61 Previous Next Deployment Order 100
	All Update Dele Name A Collickhistory (1.0,12.2.1) Dele Dele Collickhistory (1.0,12.2.1) Dele Collickhistory (1.0,12.2.1) Dele Collickhistory (1.0,12.2.1)	State State Active Dp Active B Active	Health Health	Type Library Library EJB	Targets AdminServer, OFSLL_ManagedServer, WS_ManagedServer AdminServer, OFSLL_ManagedServer, WS_ManagedServer, OFSLL_ManagedServer,	Scope Global Global Global	Showing 31 to 40	of 61 Previous Next Deployment Order 100 100

3. Click 'Testing' tab and expand 'OfsllRestWS'. The following window is displayed.

Settings for OfsllRestEAR
Overview Deployment Plan Configuration Security Targets Control Testing Monitoring Notes

Some deployment types support test points you can use to verify that a deployment was successful and that the module is ready for use. The following table includes all of the test points available for this application or module.

Showing 1 to 1 of 1 Previous No					
Name 💫	Test Point	Comments			
		Soft date by comments			
/OfsllRestWS/rest	/application.wadl	WADL page on server WS_ManagedServer			
/OfsllRestWS/service/api/resources	/application.wadl	WADL page on server WS_ManagedServer			
default	http://10.184.132.155:8315/OfsllRestWS	Default url on server WS_ManagedServer			

- 4. You can view the 'OfsllRestful' Services URL as shown.
- 5. Swagger documentation for RESTful web services can be accessed using the following URL type http://<server_name>;<port>/<Application_context>/swagger.json



A. Appendix - Configuration parameters

Refer to the following section for details on configuration parameters.

Modifying Configuration Files

Route One Configuration

Property Name	Property Value	Description	Remarks			
Configuration File: ro_servlet_init.conf						
LOSApplica- tionRequest- ServiceURL	http:// <host NAME>:<port>/ <context ROOT>/LOSAppli- cationRequestSer- vice</context </port></host 	URL for OFSLL New application WebSer- vice	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://host- name:port/dbkls-xws- app-ro/LOSApplication- RequestService			
LOSApplica- tionUpdate- ServiceURL	http:// <host NAME>:<port>/ <context ROOT>/LOSAppli- cationUpdateSer- vice</context </port></host 	URL for OFSLL application update WebService	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://host- name:port/dbkls-xws- app-ro/LOSApplica- tionUpdateService			
LOSeCon- tractWebSer- viceServiceUR L	http:// <local- host>:<port>/ dbkls-xws-app-ro/ LOSEContractSer- vice</port></local- 	URL to validate and receive the contract information	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://host- name:port/dbkls-xws- app-ro/LOSEContract- Service			
keystoreLoca- tion	config/dls_cacerts	Parameter to set key- store location	The keystore location should not be changed and keystore should be available in this location			
postURL	https://messag- ing.itl.routeone.net/ IF1_ITL/CASSB- MessagingRe- ceiver	URL for posting acknowledgement message to Route one	Verify the URL with Route One			
fileLocation	/tmp	temporary file direc- tory	The directory for tempo- rary files. Make sure that such directory exists on the deployment server			
postTimeout	10	Parameter to set timeout value to post XML message to third party.	Timeout value should be specified in number of seconds.			



Property Name	Property Value	Description	Remarks
useProxy	0	Parameter to switch on/off proxy use. By default use of proxy is switched off. To use proxy setup value to "1", else setup value as "0"	
proxyHost	abc.com	Parameter to set proxy host. This is required if useProxy is set to 1.	
proxyPort	80	Parameter to set proxy port. This is required if useProxy is set to 1.	
Configuration Fi	le: dbkws_xae_init.co	onf	
lenderld	SOME- LENDER_ID	The finance source identifier used in the dealer file	SOMELENDER_ID is a sample value
lenderName	SOME_LENDER_ NAME	The finance source name used in the dealer file	SOME_LENDER_NAME is a sample value
application- Source	ROUTEONE	Parameter to set application source	Don't modify this value
dealerEle- mentName	DEALER_DE- TAILS	Name of XML ele- ment used for the dealer details used in the dealer file	DEALER_DETAILS is a sample value
fileLocation	/tmp		The directory for tempo- rary files. Make sure that such directory exists on the deployment server
fileDelimiter	,	Delimiter used in dealer header file	Needed only for Route- One
jndiLookupDa- taSource	jdbc/IN1Huk- WznG0b4esj	Parameter that defines the JNDI look up for the applicaton datasource	Don't modify the value
keystoreLoca- tion	config/dls_cacerts	Parameter to set location for public/pri- vate key store for HTTPS posting and for XML Digital Sig- nature	The keystore location should not be changed and keystore should be available in this location



Property Name	Property Value	Description	Remarks
postTimeout	10	Parameter to set timeout value to post XML message to third party.	Timeout value should be specified in number of seconds.
useProxy	0	Parameter to switch on/off proxy use. By default use of proxy is switched off. To use proxy setup value to "1", else setup value as "0"	
proxyHost	abc.com	Parameter to set proxy host. This is required if useProxy is set to 1.	
proxyPort	80	Parameter to set proxy port. This is required if useProxy is set to 1.	
Configuration Fi	le: dbkws_xec_init.co	nf	
jndiLookupDa- taSource	jdbc/IN1Huk- WznG0b4esj	Parameter that defines the JNDI look up for the applicaton datasource	Don't modify the value
Configuration Fi	le: dbkws_xcl_init.co	nf	
lenderld	SOME- LENDER_ID	The finance source identifier used in the dealer file	SOMELENDER_ID is a sample value
lenderName	SOME_LENDER_ NAME	The finance source name used in the dealer file	SOME_LENDER_NAME is a sample value
dealerEle- mentName	DEALER_DE- TAILS	Name of XML ele- ment used for the dealer details used in the dealer file	DEALER_DETAILS is a sample value
fileLocation	/tmp		The directory for tempo- rary files. Make sure that such directory exists on the deployment server
fileDelimiter	,	Delimiter used in dealer header file	



Property Name	Property Value	Description	Remarks
jndiLookupDa- taSource	jdbc/dbk105nlE- JBDS	Parameter that defines the JNDI look up for the applicaton datasource	Don't modify the value
keystoreLoca- tion	config/dls_cacerts	Parameter to set location for public/pri- vate key store for HTTPS posting and for XML Digital Sig- nature	The keystore location should not be changed and keystore should be available in this location
keystorePass- word	changeit	The keystore pass- word	The deafult password is "changeit". Modify the property in case the pass- word is different for the keystore.
sscroKeyAlias	ofss_routeone	OFSLL's private key alias name. The pri- vate key is used to sign xml response to RouteOne	You may import the pri- vate key with alias "ofss_routeone" else modify the property value to alias used while importing the private key into keystore.
sscroKeyPass- word	demotestSSCR1	OFSLL's private key password	demotestSSCR1 is a sample value
Configuration Fi	le: Logging.propertie	S	
handlers	java.util.log- ging.FileHandler, java.util.log- ging.Console- Handler		
java.util.log- ging.File- Handler.level	ALL		
java.util.log- ging.File- Handler.patter n	/somewhere/logs/ dbkls_xws_%g.log		
java.util.log- ging.File- Handler.limit	1000000		
java.util.log- ging.File- Handler.count	4		



Property Name	Property Value	Description	Remarks
java.util.log- ging.File- Handler.appen d	true		
java.util.log- ging.File- Handler.format ter	java.util.log- ging.SimpleFor- matter		
java.util.log- ging.Console- Handler.level	WARNING		
java.util.log- ging.Console- Handler.format ter	java.util.log- ging.SimpleFor- matter		
com.ofss.fll.xw s.level	FINER	set the logging level for the application	Other Level values FIN- EST,FINE,CONFIG and INFO



Dealer Track								
Property Name	Property Value	Description	Remarks					
Configuratio	Configuration File: dt_servlet_init.conf							
LOSAppli- cationRe- questServ iceURL	http:// <host NAME>:<port>/ <context ROOT>/LOSAppli- cationRequestSer- vice</context </port></host 	URL for OFSLL New application WebService	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://host- name:port/dbkls-xws-app- dt/LOSApplicationRe- questService					
LOSAppli- cationUp- dateServi ceURL	http:// <host NAME>:<port>/ <context ROOT>/LOSAppli- cationUpdateSer- vice</context </port></host 	URL for OFSLL applica- tion update WebService	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://host- name:port/dbkls-xws-app- dt/LOSApplicationUp- dateService					
postTime- out	10	Parameter to set timeout value to post XML mes- sage to third party.	Timeout value should be specified in number of seconds.					
useProxy	0	Parameter to switch on/ off proxy use. By default use of proxy is switched off. To use proxy setup value to "1", else setup value as "0"						
proxyHost	abc.com	Parameter to set proxy host. This is required if useProxy is set to 1.						
proxyPort	80	Parameter to set proxy port. This is required if useProxy is set to 1.						
Configuratio	Configuration File: dbkws_xae_init.conf							
lenderld	SOME- LENDER_ID	The finance source iden- tifier used in the dealer file	SOMELENDER_ID is a sample value					
lender- Name	SOME_LENDER_ NAME	The finance source name used in the dealer file	SOME_LENDER_NAME is a sample value					
applica- tion- Source	DEALERTRACK	Parameter to set applica- tion source	Don't modify this value					



Property Name	Property Value	Description	Remarks
dealerEle- ment- Name	DEALER_DE- TAILS	Name of XML element used for the dealer details used in the dealer file	DEALER_DETAILS is a sample value
fileLoca- tion	/tmp		The directory for tempo- rary files. Make sure that such directory exists on the deployment server
jndi- Lookup- DataSour ce	jdbc/IN1Huk- WznG0b4esj	Parameter that defines the JNDI look up for the applicaton datasource	Don't modify the value
keystore- Location	config/dls_cacerts	Parameter to set location for public/private key store for HTTPS posting and for XML Digital Sig- nature	The keystore location should not be changed and keystore should be available in this location
keystore- Password	changeit	The keystore password	The deafult password is "changeit". Modify the property in case the pass- word is different for the keystore.
postTime- out	10	Parameter to set timeout value to post XML mes- sage to third party.	Timeout value should be specified in number of seconds.
useProxy	0	Parameter to switch on/ off proxy use. By default use of proxy is switched off. To use proxy setup value to "1", else setup value as "0"	
proxyHost	abc.com	Parameter to set proxy host. This is required if useProxy is set to 1.	
proxyPort	80	Parameter to set proxy port. This is required if useProxy is set to 1.	
Configuration File: dbkws_xcl_init.conf			
lenderld	SOME- LENDER_ID	The finance source iden- tifier used in the dealer file	SOMELENDER_ID is a sample value
lender- Name	SOME_LENDER_ NAME	The finance source name used in the dealer file	SOME_LENDER_NAME is a sample value



Property Name	Property Value	Description	Remarks
dealerEle- ment- Name	DEALER_DE- TAILS	Name of XML element used for the dealer details used in the dealer file	DEALER_DETAILS is a sample value
fileLoca- tion	/tmp		The directory for tempo- rary files. Make sure that such directory exists on the deployment server
fileDelim- iter	,	Delimiter used in dealer header file	Needed only for Route- One
jndi- Lookup- DataSour ce	jdbc/dbk105nlE- JBDS	Parameter that defines the JNDI look up for the applicaton datasource	Don't modify the value
keystore- Location	config/dls_cacerts	Parameter to set location for public/private key store for HTTPS posting and for XML Digital Sig- nature	The keystore location should not be changed and keystore should be available in this location
keystore- Password	changeit	The keystore password	The deafult password is "changeit". Modify the property in case the pass- word is different for the keystore.
sscroKey Alias	ofss_routeone	OFSLL's private key alias name. The private key is used to sign xml response to RouteOne	You may import the pri- vate key with alias "ofss_routeone" else modify the property value to alias used while import- ing the private key into keystore.
sscroKey- Password	demotestSSCR1	OFSLL's private key password	demotestSSCR1 is a sample value
Configuration File: Logging.properties			
handlers	java.util.log- ging.FileHandler, java.util.log- ging.Console- Handler		
java.util.lo gging.File- Han- dler.level	ALL		



Property Name	Property Value	Description	Remarks
java.util.lo gging.File- Han- dler.patter n	/somewhere/logs/ dbkls_xws_%g.log		
java.util.lo gging.File- Han- dler.limit	1000000		
java.util.lo gging.File- Han- dler.count	4		
java.util.lo gging.File- Han- dler.appen d	true		
java.util.lo gging.File- Han- dler.forma tter	java.util.log- ging.SimpleFor- matter		
java.util.lo gging.Con sole- Han- dler.level	WARNING		
java.util.lo gging.Con sole- Han- dler.forma tter	java.util.log- ging.SimpleFor- matter		
com.ofss.f II.xws.leve I	FINER	set the logging level for the application	Other Level values FIN- EST,FINE,CONFIG and INFO



EDOCS

Property Name	Property Value	Description	Remarks	
Configuration File: ds_servlet_init.conf				
LOSeApplication- RequestServi- ceURL	http:// <host NAME>:<port>/ <context ROOT>/LOSeAp- plicationRequest- Service</context </port></host 	URL for OFSLL eDocs Create/ update applica- tion WebService	Refer the recommended context root table for CON- TEXT ROOT. Sample URL: http://host- name:port/dbkls-xws-app- ds/LOSeApplicationRe- questService	
LOSApplication- CommentUpdate- ServiceURL	http:// <host NAME>:<port>/ <context ROOT>/LOSAp- plicationCom- mentUpdateServi ce</context </port></host 	URL for OFSLL eDocs comment update WebSer- vice	Refer the recommended context root table for CON- TEXT ROOT. Sample URL: http://host- name:port/dbkls-xws-app- ds/LOSApplicationCom- mentUpdateService	
LOSApplication- LocationUpdate- ServiceURL	http:// <host NAME>:<port>/ <context ROOT>/LOSAp- plicationLoca- tionUpdateServic e</context </port></host 	URL for OFSLL eDocs location update WebSer- vice	Refer the recommended context root table for CON- TEXT ROOT. Sample URL: http://host- name:port/dbkls-xws-app- ds/LOSApplicationLoca- tionUpdateService	
postTimeout	10	Parameter to set timeout value to post XML mes- sage to third party.	Timeout value should be specified in number of sec- onds.	
useProxy	0	Parameter to switch on/off proxy use. By default use of proxy is switched off. To use proxy setup value to "1", else setup value as "0"		
proxyHost	abc.com	Parameter to set proxy host. This is required if useProxy is set to 1.		
proxyPort	80	Parameter to set proxy port. This is required if useProxy is set to 1.		



Property Name	Property Value	Description	Remarks
Configuration File: c	lbkws_xae_init.conf	F	
lenderld	SOME- LENDER_ID	The finance source identifier used in the dealer file	SOMELENDER_ID is a sample value
lenderName	SOME_LENDER _NAME	The finance source name used in the dealer file	SOME_LENDER_NAME is a sample value
applicationSource	EDOCS	Parameter to set application source	Don't modify this value
dealerElement- Name	DEALER_DE- TAILS	Name of XML element used for the dealer details used in the dealer file	DEALER_DETAILS is a sample value
fileLocation	/tmp		The directory for temporary files. Make sure that such directory exists on the deployment server
jndiLookupData- Source	jdbc/IN1Huk- WznG0b4esj	Parameter that defines the JNDI look up for the applicaton data- source	Don't modify the value
keystoreLocation	config/dls_cacerts	Parameter to set location for pub- lic/private key store for HTTPS posting and for XML Digital Sig- nature	The keystore location should not be changed and keystore should be availa- ble in this location
keystorePassword	changeit	The keystore password	The deafult password is "changeit". Modify the property in case the pass- word is different for the keystore.
postTimeout	10	Parameter to set timeout value to post XML mes- sage to third party.	Timeout value should be specified in number of seconds.



Property Name	Property Value	Description	Remarks
useProxy	0	Parameter to switch on/off proxy use. By default use of proxy is switched off. To use proxy setup value to "1", else setup value as "0"	
proxyHost	abc.com	Parameter to set proxy host. This is required if useProxy is set to 1.	
proxyPort	80	Parameter to set proxy port. This is required if useProxy is set to 1.	
Configuration File: c	lbkws_xcl_init.conf		
lenderld	SOME- LENDER_ID	The finance source identifier used in the dealer file	SOMELENDER_ID is a sample value
lenderName	SOME_LENDER _NAME	The finance source name used in the dealer file	SOME_LENDER_NAME is a sample value
dealerElement- Name	DEALER_DE- TAILS	Name of XML element used for the dealer details used in the dealer file	DEALER_DETAILS is a sample value
fileLocation	/tmp		The directory for temporary files. Make sure that such directory exists on the deployment server
fileDelimiter	3	Delimiter used in dealer header file	
jndiLookupData- Source	jdbc/dbk105nlE- JBDS	Parameter that defines the JNDI look up for the applicaton data- source	Don't modify the value



Property Name	Property Value	Description	Remarks
keystoreLocation	config/dls_cacerts	Parameter to set location for pub- lic/private key store for HTTPS posting and for XML Digital Sig- nature	The keystore location should not be changed and keystore should be availa- ble in this location
keystorePassword	changeit	The keystore password	The deafult password is "changeit". Modify the property in case the pass- word is different for the keystore.
sscroKeyAlias	ofss_routeone	OFSLL's pri- vate key alias name. The pri- vate key is used to sign xml response to RouteOne	You may import the private key with alias "ofss_route- one" else modify the prop- erty value to alias used while importing the private key into keystore.
sscroKeyPass- word	demotestSSCR1	OFSLL's private key password	demotestSSCR1 is a sam- ple value
Configuration File: L	ogging.properties		
handlers	java.util.log- ging.FileHandler, java.util.log- ging.Console- Handler		
java.util.log- ging.File- Handler.level	ALL		
java.util.log- ging.File- Handler.pattern	/somewhere/logs/ dbkls_x- ws_%g.log		
java.util.log- ging.File- Handler.limit	1000000		
java.util.log- ging.File- Handler.count	4		
java.util.log- ging.File- Handler.append	true		
java.util.log- ging.File- Handler.formatter	java.util.log- ging.SimpleFor- matter		



Property Name	Property Value	Description	Remarks
java.util.log- ging.Console- Handler.level	WARNING		
java.util.log- ging.Console- Handler.formatter	java.util.log- ging.SimpleFor- matter		
com.ofss.fll.xws.le vel	FINER	set the logging level for the application	Other Level values FIN- EST,FINE,CONFIG and INFO

Others

- Verify that latest XWS SQL Types, Views and Packages are installed.
- Required Java permissions have been granted
- Verify that System parameters for WebServices URLs as well as Post Response URLs are set. Please see the table below for details
- System parameter CMN_WALLET_PATH and CMN_WALLET_PASSWORD is setup
- Verify lenderId, lendername in config(dbkws_xae_init.conf) file and also set lenderId in all response xsl in element "A:TargetId".
- For DealerTrack access, user name/pwd should be setup in file ".htpasswd" under config dir

System Parameters to be configured:

System Parameter Name	System Parameter Desc
XWS_XAE_DLR_TRACK_RESP_PWD	DEALERTRACK APPLICATION RESPONSE BASIC AUTH PASSWORD
XWS_XAE_DLR_TRACK_RESP_URL	DEALERTRACK APPLICATION RESPONSE URL
XWS_XAE_DLR_TRACK_RESP_USER	DEALERTRACK APPLICATION RESPONSE BASIC AUTH USER
XWS_XAE_DLR_TRACK_WS_URL	OFSLL WEBSERVICE URL TO POST APPLICATION RESPONSE TO DEALER- TRACK
XWS_XAE_ROUTEONE_RESP_PWD	ROUTE ONE APPLICATION RESPONSE BASIC AUTH PASSWORD
XWS_XAE_ROUTEONE_RESP_URL	ROUTE ONE APPLICATION RESPONSE URL
XWS_XAE_ROUTEONE_RESP_USER	ROUTE ONE APPLICATION RESPONSE BASIC AUTH USER
XWS_XAE_ROUTEONE_WS_URL	OFSLL WEBSERVICE URL TO POST APPLICATION RESPONSE TO ROUTE ONE
XWS_XAE_EDOC_RESP_URL	EDOCS APPLICATION RESPONSE BASIC AUTH PASSWORD



System Parameter Name	System Parameter Desc
XWS_XAE_EDOC_WS_URL	EDOCS APPLICATION RESPONSE URL
XWS_XAE_EDOC_RESP_USER	EDOCS APPLICATION RESPONSE BASIC AUTH USER
XWS_XAE_EDOC_RESP_PWD	OFSLL WEBSERVICE URL TO POST APPLICATION RESPONSE TO EDOCS
XWS_XPR_DLR_TRACK_RESP_PWD	DEALER TRACK DEALER LOAD PASS- WORD
XWS_XPR_DLR_TRACK_RESP_URL	DEALER TRACK DEALER LOAD RESPONSE URL
XWS_XPR_DLR_TRACK_RESP_USER	DEALER TRACK DEALER LOAD USER ID
XWS_XPR_DLR_TRACK_WS_URL	OFSLL WEBSERVICE URL TO POST DEALER DETAILS TO DEALER TRACK
XWS_XPR_INCLUDE_TEMP	INCLUDE TEMP PRODUCERS
XWS_XPR_ROUTEONE_RESP_PWD	ROUTE ONE DEALER LOAD PASS- WORD
XWS_XPR_ROUTEONE_RESP_URL	ROUTE ONE DEALER LOAD RESPONSE URL
XWS_XPR_ROUTEONE_RESP_USER	ROUTE ONE DEALER LOAD USER ID
XWS_XPR_ROUTEONE_WS_URL	OFSLL WEBSERVICE URL TO POST DEALER DETAILS TO ROUTE ONE
XWS_XAE_DLR_TRACK_LENDERID	DEALERTRACK LENDER ID
XWS_XAE_ROUTEONE_LENDERID	ROUTEONE LENDER ID
XWS_XAE_DL- R_TRACK_LENDER_NAME	DEALERTRACK LENDER NAME
XWS_XAE_ROUTE- ONE_LENDER_NAME	ROUTEONE LENDER NAME
XWS_XAE_ECON_ROU- TEEONE_RESP_URL	Route One E-contract response URL

