WebServices Installation Guide

Oracle Financial Services Lending and Leasing

Release 14.6.0.0.0

Part No. F12052-01

December 2018



WebServices Installation Guide
December 2018
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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 Prerequisites

- Download and Install the Oracle Fusion Middleware 12c Version 12.2.1.3.0 (Fusion Middleware Infrastructure installer) from http://www.oracle.com/technetwork/middleware/fusion-middleware/downloads/index.html#close. 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 Audience

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

1.3 Conventions Used

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.

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 'y' when prompted to continue.

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

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/db12c/product/12.1.0/dbhome_1/bin

ORACLE_HOME=/scratch/app/db12c/product/12.1.0/dbhome_1

ORACLE_SID=ORCL

OFSLL_HOME=/scratch/work_area/DEV/OFSLIREL

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 Seed 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 Installation? [y/n] : y

Log files will be located in /scratch/work_area/DEV/OFSLLREL/logs/ofsll_xws_install_logs
Press Enter to Continue...

Enter the Oracle userid (schema name) that will own the Oracle Financial Services Lending and Leasing objects? (usually ofsllprd): OFSLLREL

Enter the password for this 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...

my: cannot stat '/tmp/recomp_obj..23135.log': No such file or directory

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

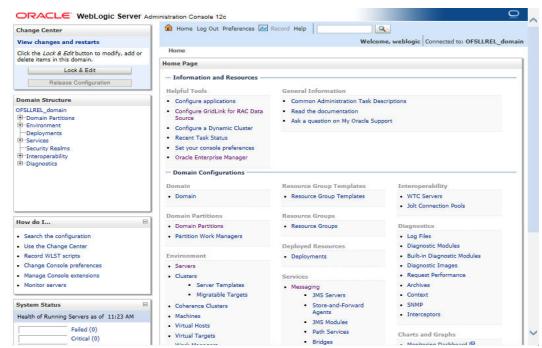
3.1 <u>Creating Data Sources for WebServices</u>

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).

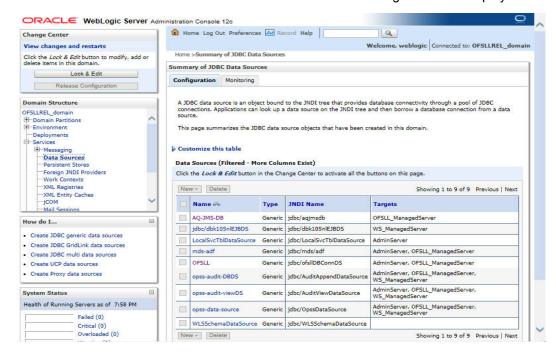


2. The following window is displayed.

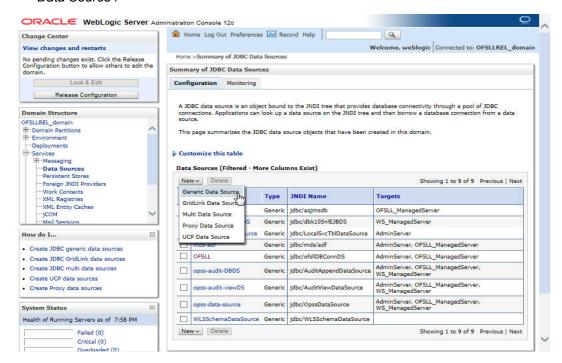




3. Click Domain Name > Services > Data Sources. The following window is displayed.

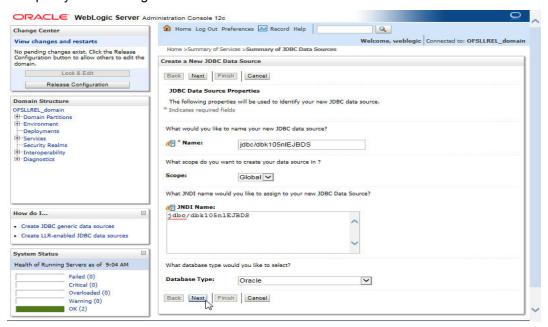


4. Click 'Lock & Edit' button on the left panel. Click 'New' on right panel and select 'Generic Data Source'.

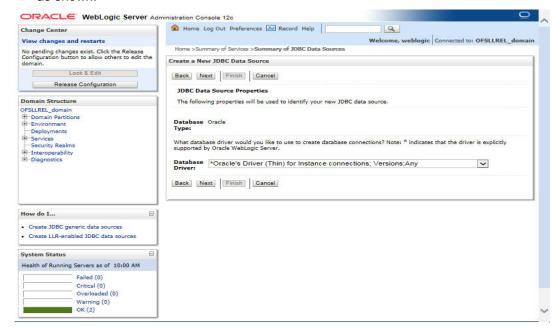




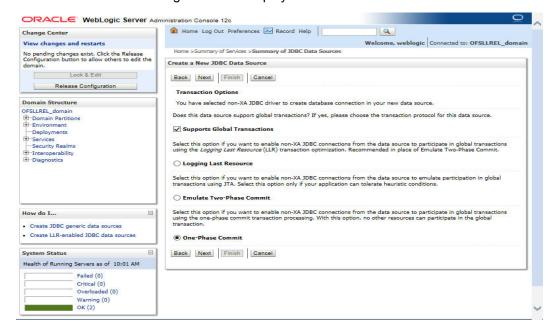
5. Specify the following details:



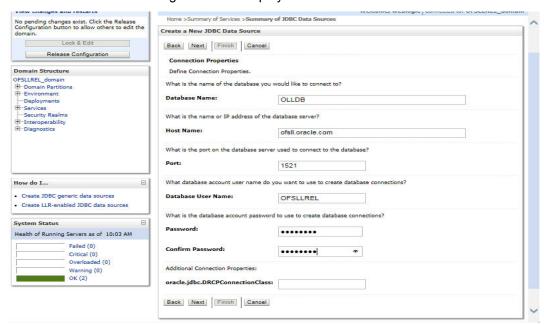
- Enter Data source Name.
- Enter JNDI Name as 'jdbc/dbk105nlEJBDS'.
- Select 'Oracle' as Database Type.
- 6. Click 'Next'. The following window is displayed.
- 7. Select the Database Driver 'Oracle's Driver(Thin) for Instance connections; Versions: Any as shown.



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



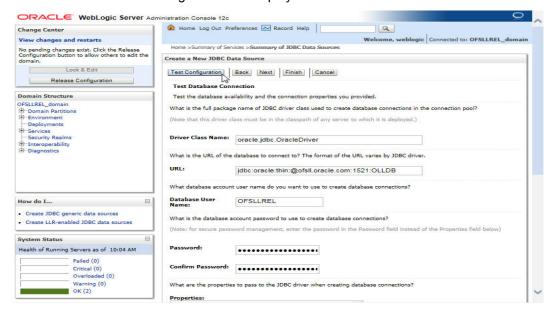
9. Click 'Next'. The following window is displayed.



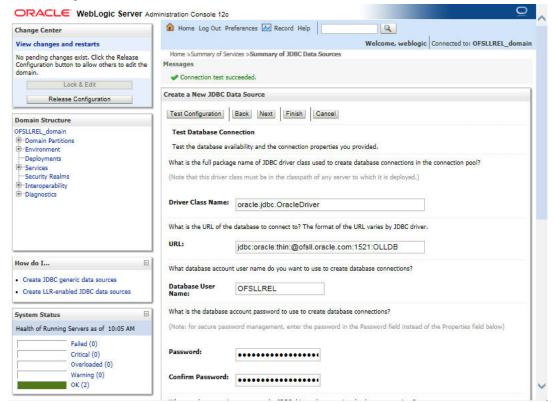
10. Enter the Database details.



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

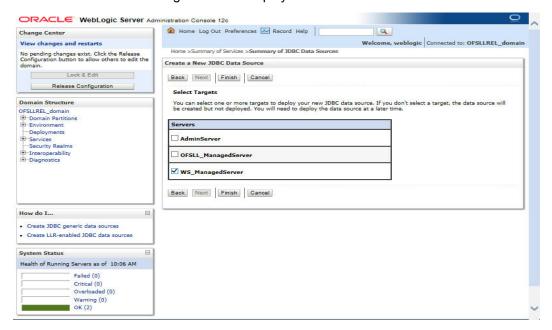


12. Click 'Test Configuration'. The following window is displayed indicating a confirmation message as 'Connection test succeeded'.

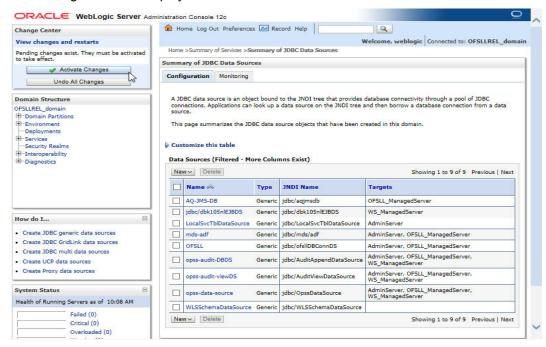




13. Click 'Next'. The following window is displayed.



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

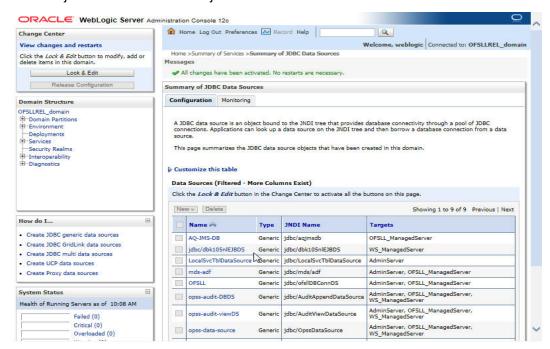


15. Click 'Activate Changes'.

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

jdbc/dbkwsDS

jdbc/IN1HukWznG0b4esj



3.2 Working with SSL

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

- 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

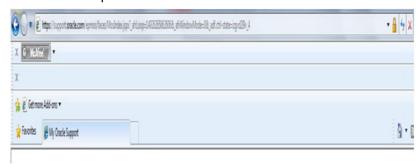
- While testing with the test certificates, you may get error: 'Signature verification failed because RSA key public exponent [3] is too small'.
 - As a fix, you need to add the following in the start-up script: 'Dweblogic.security.SSL.allowSmallRSAExponent=true'
- You may encounter error: 'java.security.InvalidKeyException: 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

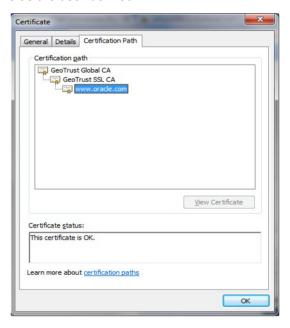
1. The JKS(dls_cacerts) should be available under /WEB-INF/classes/config.



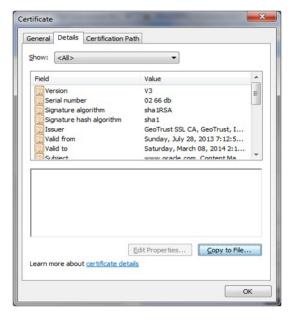
- 2. Save all the certificates from the vendor website. Note to save the certificates in "Base-64 encoded X.509(.CER)" and with extn .cer. Steps for saving certificates from the vendor website:
 - Click on the padlock and choose 'View Certificates'.



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



• Go to the Details tab.





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



- 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: http://docs.oracle.com/javase/7/docs/technotes/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 Connecting to service supporting only TLS protocol

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).



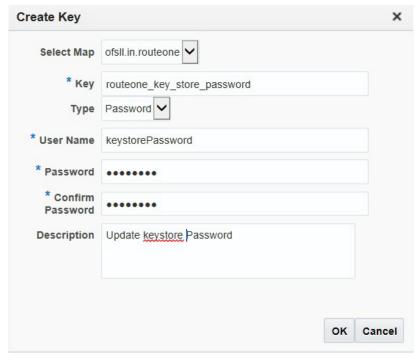
2. On the left panel, right click on OFSLLREL_domain and select Security > System Policies > Credentials. The following window is displayed.



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



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



6. Click 'OK'.

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

|--|



ofsII.in t.rou- teone	routeone_key store_pd	keystore- Password	changeit	The keystore password
	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 <u>Deployment of WebServices in Enterprise Manager</u>

- 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.ear	dbkls-xxws.ws.app- dt.ear	dbkls- xxws.ws.app- ds.ear	dbkls- xxws.ws.app- ro.ear
DialerIntegrator: Service to integrate with third party dialer systems	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
CSSAccountDe- tailsRequestSer- vice: Service to fetch Account Details by account number	DT Interface: To receive loan application/deal update from dealer track	DS Interface: To receive edocs comment update	RO Interface: To receive loan appli- cation/deal refresh from route one



CSSAccount- SearchRequest- Service: Service to fetch Account Details by attrib- utes such as AccountNumber, CustomerFirst- Name, Customer- LastName, SSN	DT Interface: To receive comments from dealer track	DS Interface: To receive edocs location update	RO Interface: To receive comments from route one
CSSPostTransac- tionsRequestSer- vice: To post different transac- tions such as update address, update phone num- ber, update ACH details, etc	LOSPostStatusRe- questService: To post comments to dealer track		LOSPostStatus- RequestService: To post com- ments to route one
CSSAccountPay- OffQuoteRequest- Service: To get the account payoff quote	LOSPostStatusRequestService: To post application status to dealer track		LOSPostStatus- RequestService: To post applica- tion status to route one
LOSeApplication- RequestSer- vice:Edocs application update service	ILOSPostDealerDe- tailsService: To post dealer details to dealer track		ILOSPostDealer- DetailsService: To post dealer details to dealer track
LOSApplication- RequestService: Loan application entry service			
LOSApplication- SearchRequest- Service: Application Search service			
LOSApplication- SearchRequest- Service: Application Search service			
LOSApplication- CommentUpdate- Service: Edocs application com- ment update ser- vice			



LOSPostStatusRequestService: Service to post loan application status		
LOSApplica- tionUpdateSer- vice: Service to update an existing application		
LOSCheckStatus- RequestService: Service to check application status		
LOSApplication- AccountWebSer- vice: Service to create Account number in OFSLL		
		LOSEContract- Service: To recieve contract information from RouteOne

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



```
-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
 inflating: ofsllxws/dbkls-xxws.ws.app.ear
-bash-4.1S cd ofsllxws
-bash-4.151s
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-4.1$cd dbkls-xxws.ws.app-ds
-bash-4.1$ ls
ibkls-xws-web-ds.war META-INF
-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/
                                                                                        Ι
  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/
```

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

```
-bash-4.1$ls -lart
total 7920
-rw-r--r-- 1 orafmw oinstall 1074660 Apr 10 08:47 dbkls-xxws.ws.app.ear
-rw-r--r- 1 orafmw oinstall 996280 Apr 10 08:47 dbkls-xxws.ws.app-dt.ear
-rw-r--r- 1 orafmw oinstall 991947 Apr 10 08:47 dbkls-xxws.ws.app-ro.ear
-rw-r--r-- 1 orafmw oinstall 978700 Apr 10 08:47 dbkls-xxws.ws.app-ds.ear
-rw-r---- 1 orafmw oinstall 4032431 Apr 10 15:09 ofsllxws.zip
drwxr---- 8 orafmw oinstall
                                   4096 Apr 10 15:09
                                   4096 Apr 10 16:26 dbkls-xxws.ws.app-ds
drwxr-xr-x 3 orafmw oinstall
drwxr-xr-x 3 orafmw oinstall 4096 Apr 10 16:26 dbkls-xxws.ws.app-dt drwxr-xr-x 3 orafmw oinstall 4096 Apr 10 16:26 dbkls-xxws.ws.app-ro
drwxr---- 6 orafmw oinstall
                                   4096 Apr 10 16:26 .
drwxr-xr-x 3 orafmw oinstall
                                    4096 Apr 10 16:26 dbkls-xxws.ws.app
-bash-4.1$cd dbkls-xxws.ws.app
-bash-4.1$1s
dbkls-xws-web.war META-INF
dbkis-xws-web.war META-INF 7
-bash-4.1$unzip dbkls-xws-web.war
Archive: dbkls-xws-web.war
   creating: WEB-INF/
   creating: WEB-INF/classes/
   creating: WEB-INF/classes/com/
   creating: WEB-INF/classes/com/ofss/
   creating: WEB-INF/classes/com/ofss/fll/
   creating: WEB-INF/classes/com/ofss/fll/utils/
   creating: WEB-INF/classes/com/ofss/fll/xws/
   creating: WEB-INF/classes/com/ofss/fll/xws/dialerintegration/
   creating: WEB-INF/classes/com/ofss/fll/xws/exception/
   creating: WEB-INF/classes/com/ofss/fll/xws/lookup/
```

5. It creates a WEB-INF file

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

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

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



```
WEB-INF (directory)
---->classes (directory)
- config
- class files (in package folders)
----> lib (directory)
- jdom-2.0.6.jar
- OfsllCommonCSF.jar
- soap-2.3.1.jar
-----> wsdl (directory)
- *.wsdl
----> *-java-wsdl-mapping.xml
----> weblogic.xml
----> weblogic-webservices.xml
----> weblogic-webservices-policy.xml
```

----> webservices.xml

6. 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

LOSeApplicationRequestServiceURL = http://<localhost>:<port>/dbkls-xws-app-ds/LOSeApplicationRequestService

LOSApplicationCommentUpdateServiceURL = http://<localhost>:<port>/dbkls-xws-app-ds/LOSApplicationCommentUpdateService

LOSApplicationLocationUpdateServiceURL = http://<localhost>:<port>/dbkls-xws-app-ds/LOSApplicationLocationUpdateService

#### URL for OFSLL application update web service
```

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/LO3ApplicationUpdateService
```



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

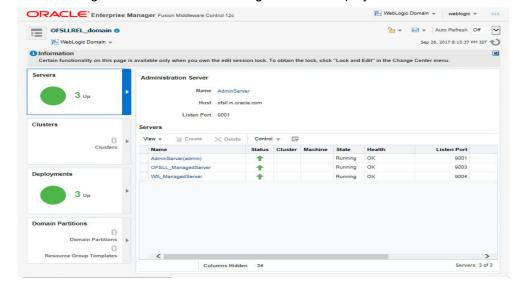
URL for OFSLL e contract web service

LOSeContractWebServiceServiceURL = http://<localhost>i<port>/dbkls-xws-app-ro/LOSEContractService

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

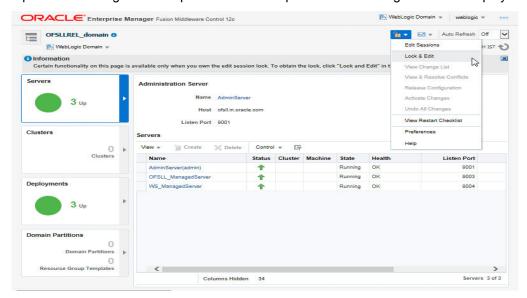


8. Enter valid login credentials. The following window is displayed.

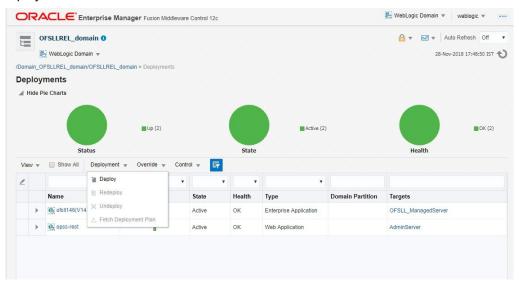




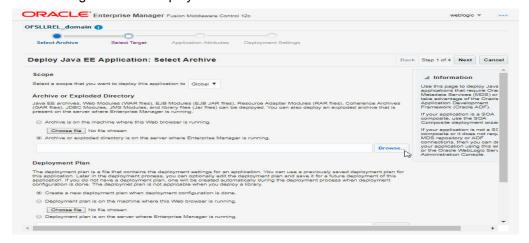
9. Expand the weblogic domain present in the left pane. The following window is displayed.



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



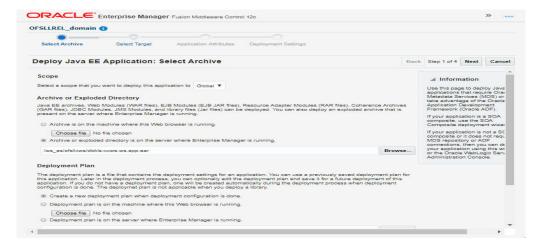
11. The following window is displayed.



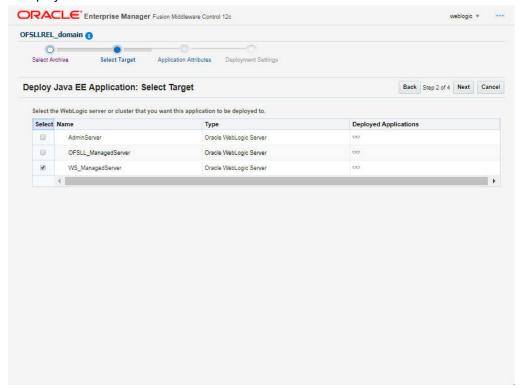
12. Browse to the folder containing the WebService.



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

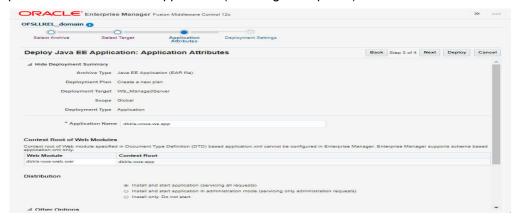


13. The following window is displayed. Select the server on which the WebService needs to be deployed. Click 'Next'.

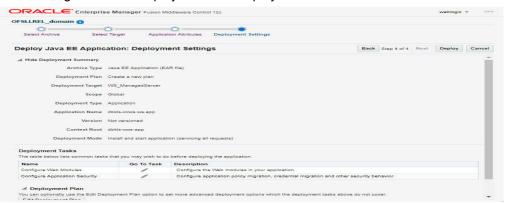




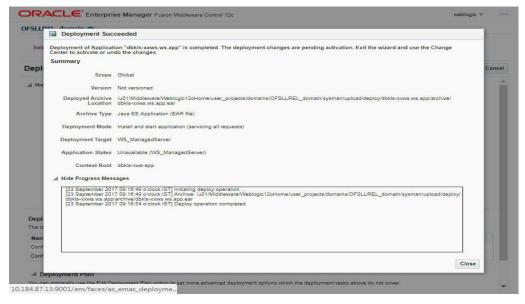
14. The following window is displayed. Check the context root and select the Distribution option as 'Install and start application (servicing all requests)'. Click 'Next'.



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



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



- 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
Webservices	dbkls- xxws.ws.app.ear	dbkls-xws-app	If this the recommended context name is not used, then the Ser- vice URLs in the configuration files needs to be changed
Edocs Interface	dbkls-xxws.ws.app- ds.ear	dbkls-xws-app-ds	If this the recommended context name is not used, then the Service 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 Service URLs in the configuration files needs to be changed
Route One Interface	dbkls-xxws.ws.app- ro.ear	dbkls-xws-app-ro	If this the recommended context name is not used, then the Service URLs in the configuration files needs to be changed

^{20.} Ensure that the application status is 'Active'.

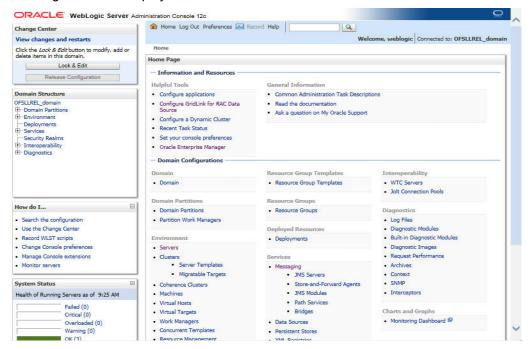


4. Configuring Weblogic Policy on WebServices

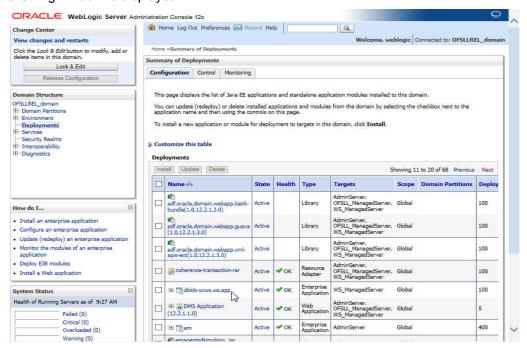
After deploying WebServices, you must configure Weblogic Policy on WebServices.

To configure Weblogic Policy on WebServices

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

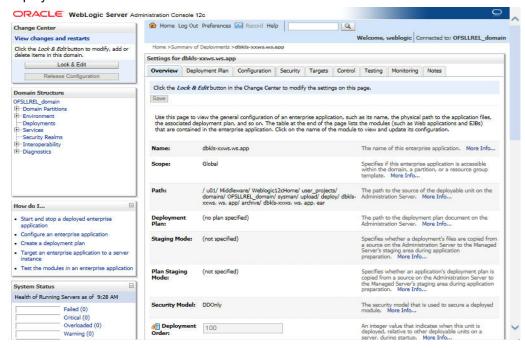


2. Click 'Deployments' which is available on both side panels as marked above. The following window is displayed.

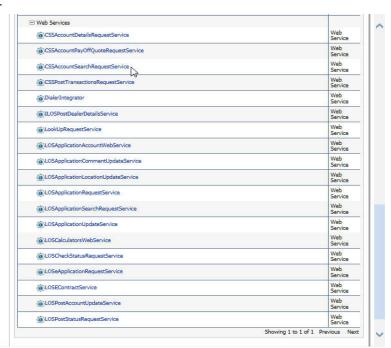




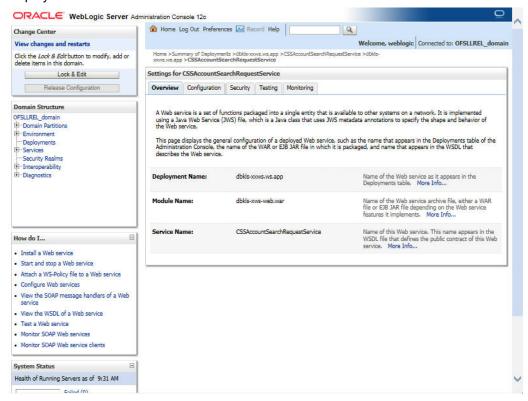
3. Click on application name dbkls-xws-app on right side panel. The following window is displayed.



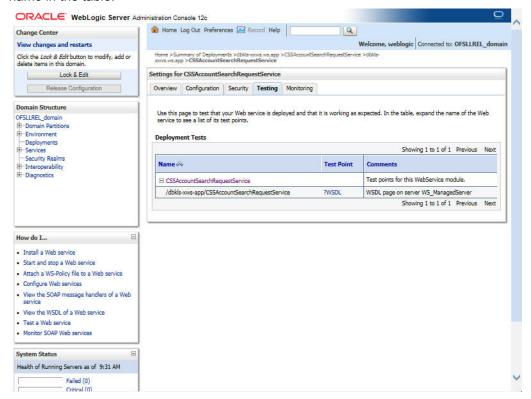
4. Scroll down the page.



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



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

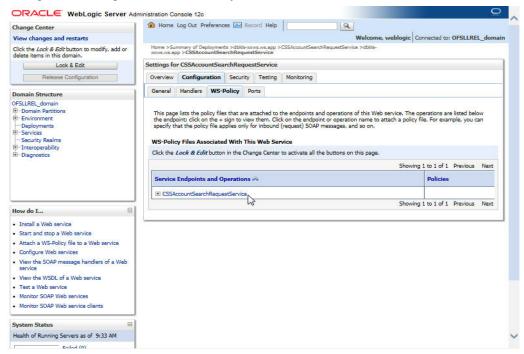




The following window is displayed. The WSDL will be accessible on http before applying WS-Policy.

```
<
```

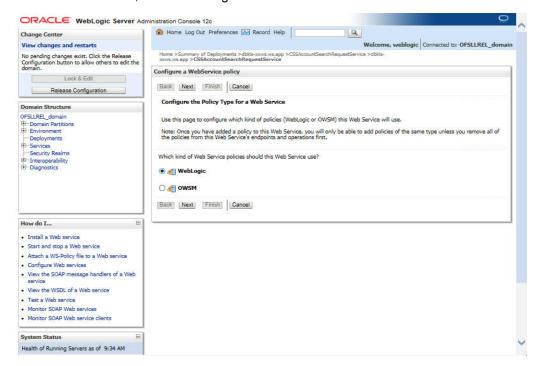
8. Navigate to Configuration > WS-Policy tab.



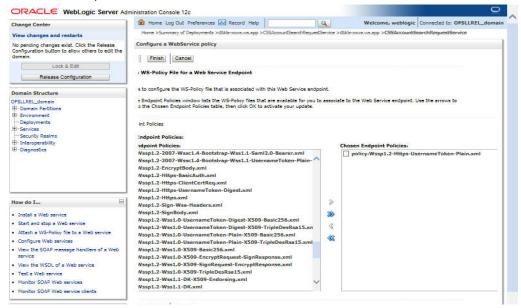
9. Click 'CSSAccountSearchRequestService'.



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

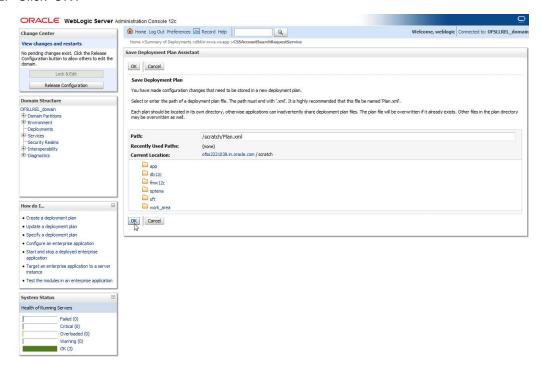


11. Select 'policy: Wssp1.2-Https-UsernameToken-Plain.xml' and click right arrow to move it to the selected policies list.

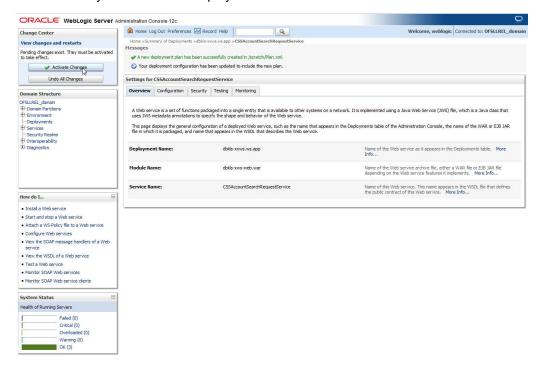




12. Click 'OK'.

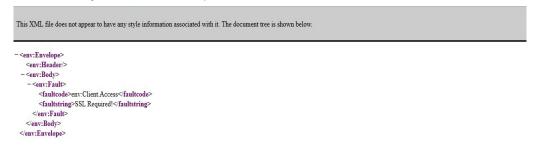


13. Browse to any folder to save Deployment Plan and click 'OK'.





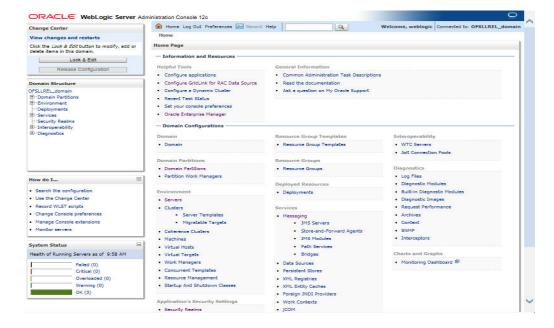
14. Now you will be not able to access the WSDL on http port. Following message will be shown when you access with http URL.



Note

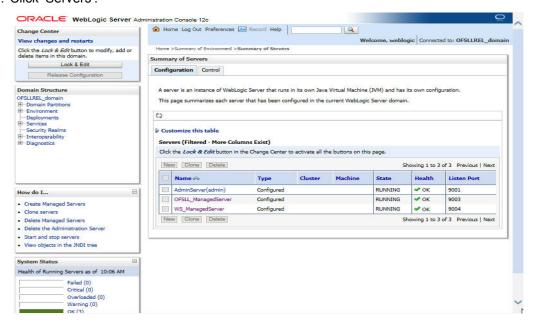
For SSL communication, the vendor servers seek public certificates. Hence, you need to download the certificates from vendor website and import into your java keystore. You then need to configure Weblogic to present the certificates to vendor servers for successful handshake.

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

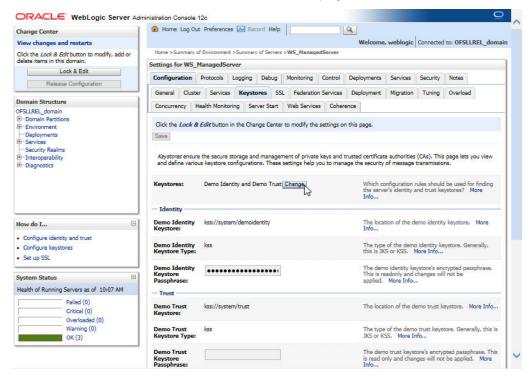




16. Click 'Servers'.

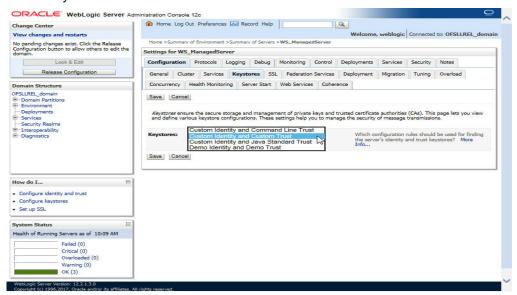


17. Select the Server into which the WebServices are deployed.

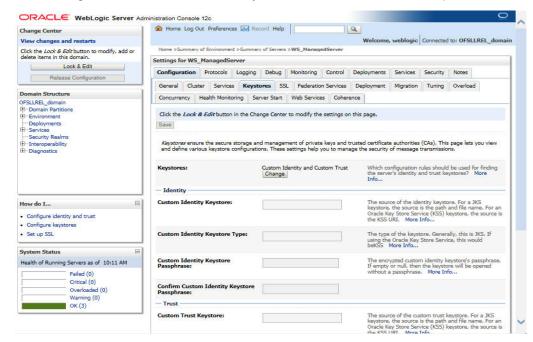




18. Select 'Keystores'.



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



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



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

```
<?xml version="1.0" encoding="UTF-8"?>
<WL5G3N0:definitions xmlns:WL5G3N3="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:WL5G3N2="http://com/ofss/fil/xws/xcs/AccountSearch.wsdl"
xmlns:WL5G3N1="http://www.w3.org/2001/XML5chema" xmlns:WL5G3N0="http://schemas.xmlsoap.org/wsdl/"
xmlns="" targetNamespace="http://com/ofss/fil/xws/xcs/AccountSearch.wsdl"</pre>
name="CSSAccountSearchRequestService">
- <WL5G3N0:types>
           <xsd:schema xmlns="http://www.w3.org/2001/XMLSchema
                scischema xmins= http://www.ws.org/2001/XMLSchema*
targetNamespace="http://com.ofss.fll.xws.xcs/ICSSAccountSearchRequestService.xsd"
xmlns:xsd="http://com/ofss/fll/xws/xcs/AccountSearch.wsdl"
xmlns:tns="http://com/ofss/fll/xws/xcs/AccountSearch.wsdl"
xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:ns1="http://com.ofss.fll.xws.xcs/ICSSAccountSearchRequestService.xsd" xmlns:SOAP-
                 ENC="http://schemas.xmlsoap.org/soap/encoding/"/>
      </WL5G3N0:types>
   - <WL5G3N0:message name="doAccountSearchStr0Request">
 <WL5G3N0:part name="requestStr" type="WL5G3N1:string"/>
      </WL5G3N0:message>
   V
        - «WL5G3N0:operation name="doAccountSearch's

- «WL5G3N0:input name="doAccountSearch's

- «WL5G3N0:input name="doAccountSearchStr0Request"

- wL5G3N0:output name="doAccountSearchStr0Response"

- wL5G3N0:operation>
   < WL5G3N3:body use="literal" namespace="CSSAccountSearchRequestService"/>
              </WL5G3N0:input>
- <WL5G3N0:output name="doAccountSearchStr0Response":
            <WL5G3N0:output>
</WL5G3N0:output>
</WL5G3N0:output></WL5G3N0:output>
   </WL5G3N0:binding>
- <WL5G3N0:service name="CSSAccountSearchRequestService">
```

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
- 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) deployment:</u>

- 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.
- The file is available inside config folder. Navigate to dbkls-xxws.ws.app/dbkls-xws-web/ 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:

- 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	Functionality		
DialerIntegrator: xcsadi_em_100_01	To receive loan application 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 application/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 comments 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 comments to route one: XAECH-K_EM_100_01
CSSAccountPay- OffQuoteRequest- Service: N/A	To post application status to dealer track: XAECHK_EM_100_01		To post application 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	Functionality
LOSApplication- CommentUpdate- Service: XAE- EDS_EM_100_01	
LOSPostStatusRequestService: XAECH- K_EM_100_01	
LOSApplica- tionUpdateSer- vice: XAEUP- D_EM_100_01	
LOSCheckStatus- RequestService: XAECH- K_EM_100_01	
LOSEcontractService: XACPRC_EM_100 _01	



7. Configuring RESTful WebService

Follow the below steps to configure RESTful WebService.

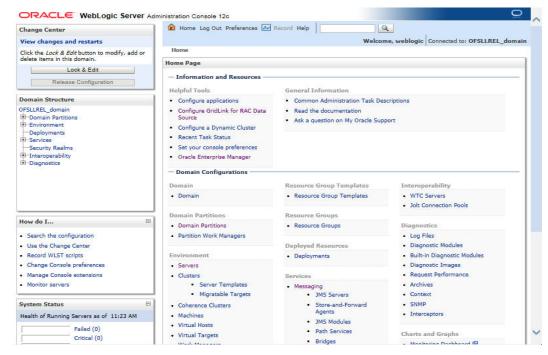
- Create Data Source for RESTful WebService
- Deploy RESTful WebService

7.1 Create Data Sources for RESTful WebService

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

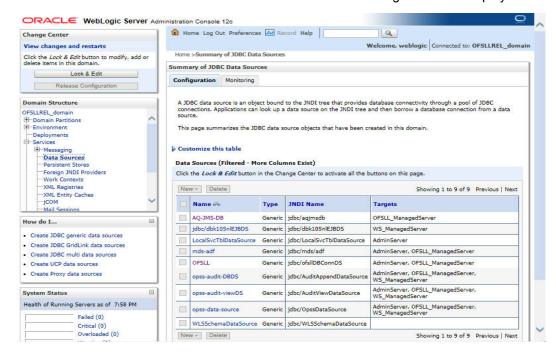


2. On successful login, the following window is displayed.

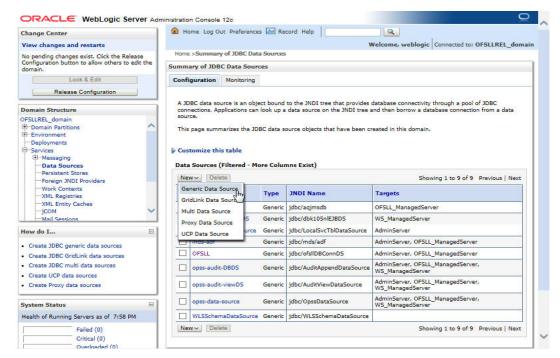




3. Click Domain Name > Services > Data Sources. The following window is displayed.

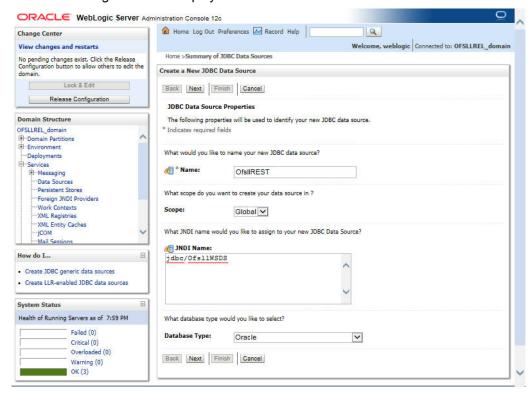


4. Click 'Lock & Edit' button on the left panel. Click 'New' on right panel and select 'Generic Data Source'.

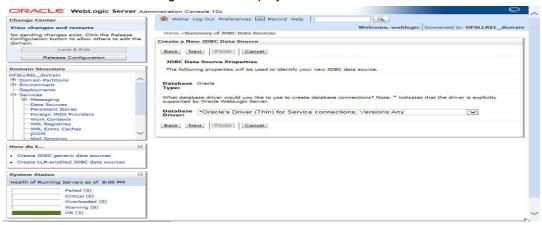




5. The following window is displayed.

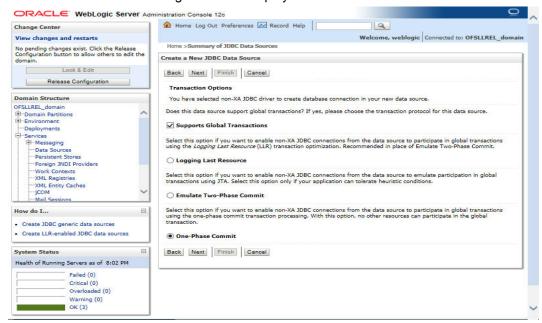


- 6. Specify the following details:
 - Enter Data source Name
 - Enter the JNDI Name as 'jdbc/OfsllWSDS'.
 - Select 'Oracle' as Database Type.
- 7. Click 'Next'. The following window is displayed.

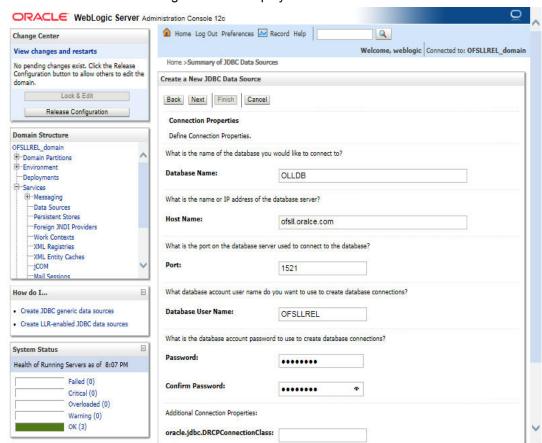


8. Select the Database Driver 'Oracle's Driver(Thin) for Services connections; Versions: Any'.

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

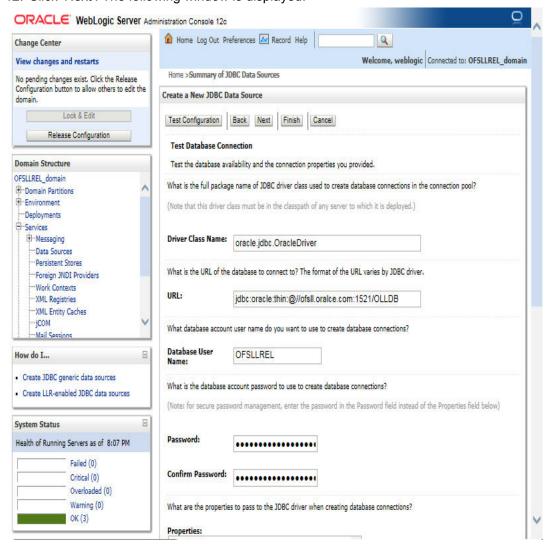


10. Click 'Next'. The following window is displayed.

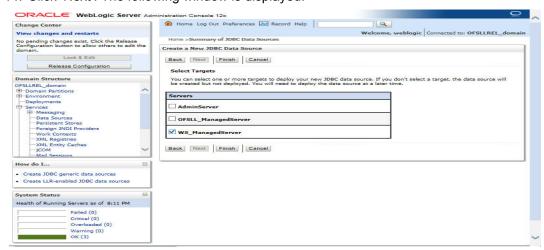


11. Enter the Database details.

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



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



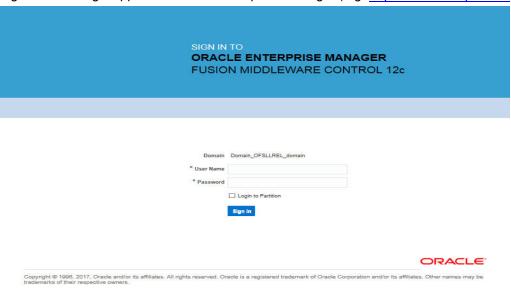
- 15. Select target Server as 'WS_ManagedServer'.
- 16. Click Advanced button and update the 'Inactive Connection Timeout' to 300 seconds.



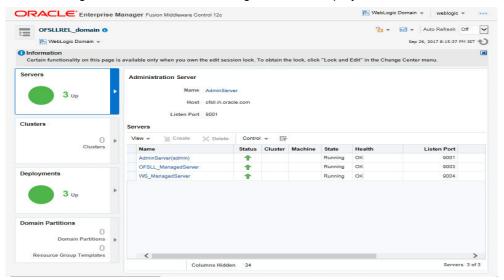
17. Click 'Finish' to activate the changes.

7.2 Deploy RESTful WebService

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



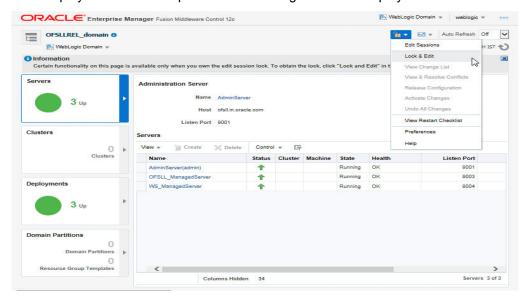
2. Enter valid login credentials. The following window is displayed.



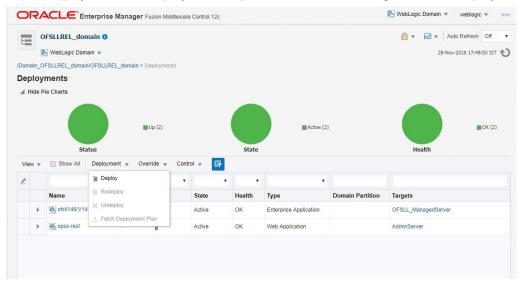
3. Select 'Lock & Edit' option in the lock drop-down list available in the header.



4. Click 'Deployment' in the left panel. The following window is displayed.



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



6. The following window is displayed.

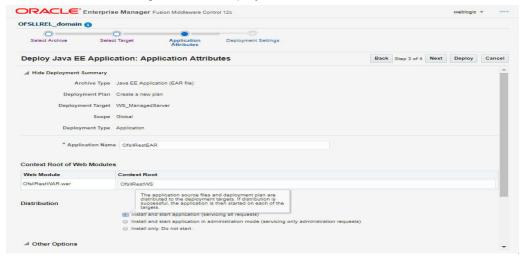


7. Browse to the folder containing the WebService. Eg: C:/OfsllRestEAR.ear

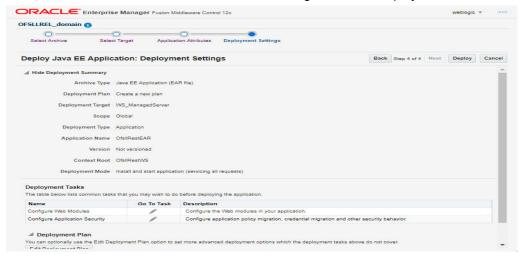
8. Click 'Next'. The following window is displayed.



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

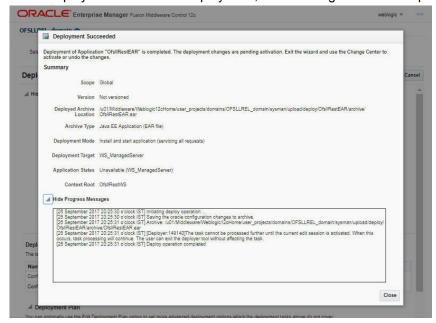


- 11. Select the option 'Install and start application (servicing all requests)'.
- 12. Check the context root and click 'Next'. The following window is displayed.





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



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.

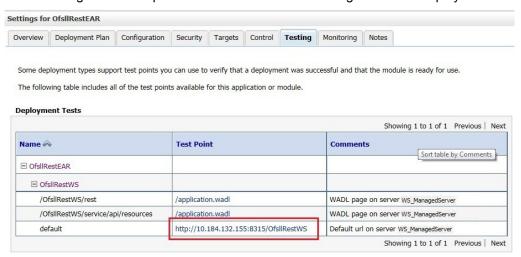
To Identify the RESTful Webservice URL

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





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



- 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 Fi	le: ro_servlet_init.cor	nf	
LOSApplica- tionRequest- ServiceURL	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-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/LOSApplicationUpdateService
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 directory	The directory for temporary 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 temporary 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 application 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 Fil	le: dbkws_xec_init.co	nf	
jndiLookupDa- taSource	jdbc/IN1Huk- WznG0b4esj	Parameter that defines the JNDI look up for the application 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 temporary 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 application 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 password 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 private 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	
Configuration	on File: dt_servlet_ini	t.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/LOSApplicationRequestService	
LOSAppli- cationUp- dateServi ceURL	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-dt/LOSApplicationUp-dateService	
postTime- out	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	Configuration File: dbkws_xae_init.conf			
lenderld	SOME- LENDER_ID	The finance source identifier 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 application 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 temporary 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 application 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 password is different for the keystore.	
postTime- out	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	Configuration File: dbkws_xcl_init.conf			
lenderld	SOME- LENDER_ID	The finance source identifier 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 temporary 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/dbk105nIE- JBDS	Parameter that defines the JNDI look up for the application 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 password 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 private key with alias "ofss_routeone" else modify the property value to alias used while importing the private key into keystore.	
sscroKey- Password	demotestSSCR1	OFSLL's private key password	demotestSSCR1 is a sample value	
Configuration	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	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/LOSeApplicationRequestService	
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 CONTEXT ROOT. Sample URL: http://hostname:port/dbkls-xws-appds/LOSApplicationCommentUpdateService	
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 CONTEXT ROOT. Sample URL: http://hostname:port/dbkls-xws-appds/LOSApplicationLocationUpdateService	
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.		



Property Name	Property Value	Description	Remarks	
Configuration File: dbkws_xae_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	
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 application datasource	Don't modify the value	
keystoreLocation	location for public/private key keystore		The keystore location should not be changed and keystore should be available in this location	
keystorePassword	changeit	The keystore password	The deafult password is "changeit". Modify the property in case the password is different for the keystore.	
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 File:	dbkws_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	,	Delimiter used in dealer header file	
jndiLookupData- Source	jdbc/dbk105nlE- JBDS	Parameter that defines the JNDI look up for the application datasource	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 available in this location
keystorePassword	changeit	The keystore password	The deafult password is "changeit". Modify the property in case the password is different for the keystore.
sscroKeyAlias	ofss_routeone	OFSLL's private key alias name. The private key is used to sign xml response to RouteOne	You may import the private key with alias "ofss_route-one" 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 File: L	ogging.properties	l	
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

Webservices

Webservices				
Property Name	Property Value	Description	Remarks	
Configuration F	ile: dbkws_loo l	cups_init.conf		
jndiLookup- DataSource	jdbc/dbk- wsDS	Parameter that defines the JNDI look up for the application datasource	Don't modify the value	
keystoreLo- cation	config/dls cacerts	Parameter to set keystore location	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 password is different for the keystore.	
Configuration F	ile: dbkws_xae	_init.conf		
lenderId	SOME- LENDER_ID	The finance source identifier used in the dealer file	SOMELENDER_ID is a sample value	
lenderName	SOME_LEN DER_NAME	The finance source name used in the dealer file	SOME_LENDER_NAME is a sample value	
dealerEle- mentName	DEALER DETAILS	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	
jndiLookup- DataSource	jdbc/IN1Huk- WznG0b4esj	Parameter that defines the JNDI look up for the application datasource	Don't modify the value	



Property Name	Property Value	Description	Remarks	
keystoreLo- cation	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 password is different for the keystore.	
sscroKeyAlia s	ofss_route- one	OFSLL's private key alias name. The private key is used to sign xml response to RouteOne	You may import the private key with alias "ofss_route-one" else modify the property value to alias used while importing the private key into keystore.	
sscroKey- Password	demotestSS- CR1	OFSLL's private key password	demotestSSCR1 is a sample value	
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 F	Configuration File: dbkws_xcl_init.conf			
lenderId	SOME- LENDER_ID	The finance source identifier used in the dealer file	SOMELENDER_ID is a sample value	
lenderName	SOME_LEN DER_NAME	The finance source name used in the dealer file	SOME_LENDER_NAME is a sample value	
dealerEle- mentName	DEALER DETAILS	Name of XML element used for the dealer details used in the dealer file	DEALER_DETAILS is a sample value	



Property Name	Property Value	Description	Remarks
fileLocation	/tmp		The directory for temporary files. Make sure that such directory exists on the deployment server
fileDelimiter	,	Delimiter used in dealer header file	
jndiLookup- DataSource	jdbc/ dbk105nlE- JBDS	Parameter that defines the JNDI look up for the application datasource	
keystoreLo- cation	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 password is different for the keystore.
sscroKeyAlia s	ofss_route- one	OFSLL's private key alias name. The private key is used to sign xml response to RouteOne	You may import the private key with alias "ofss_route-one" else modify the property value to alias used while importing the private key into keystore.
sscroKey- Password	demotestSS- CR1	OFSLL's private key password	demotestSSCR1 is a sample value
Configuration	File: dbkws_xcs	_init.conf	
jndiLookup- DataSource	jdbc/dbk- wsDS	Parameter that defines the JNDI look up for the application datasource	Don't modify the value
keystoreLo- cation	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 password is different for the keystore.
fileLocation	/tmp		The directory for temporary files. Make sure that such directory exists on the deployment server



Property Name	Property Value	Description	Remarks
application- Source	DBKTST	Application source	DBKTST is a sample value. Set it to appropriate value
Configuration F	ile: Logging pro	operties	
handlers	java.util.log- ging.File- Handler, java.util.log- ging.Con- soleHandler		
java.util.log- ging.File- Handler.level	ALL		
java.util.log- ging.File- Handler.patte rn	/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.appe nd	true		
java.util.log- ging.File- Handler.form atter	java.util.log- ging.Sim- pleFormatter		
java.util.log- ging.Console- Handler.level	WARNING		
java.util.log- ging.Console- Handler.form atter	java.util.log- ging.Sim- pleFormatter		
com.ofss.fll.x ws.level	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
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



System Parameter Name	System Parameter Desc
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

