

WebServices Installation Guide

Oracle Financial Services Lending and Leasing

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WebServices Installation Guide
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1. Preface

This document contains notes and installation steps needed to install Web Services. 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 Web Services 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 Web Services.

This guide covers the following processes.

1. [Installing Web Services Database Objects](#)
2. [Deploying Application Interface Web Services](#)
3. [Configuring Weblogic Policy on Web Services](#)

1.1 Prerequisites

1. Download and Install the Oracle WebLogic Server 11gR1 Version 10.3.6 from <http://www.oracle.com/technetwork/middleware/weblogic/downloads/wls-main-097127.html>). They are 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 Web Services 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 Web Services Database Objects

Download and unzip the the Webservices database - ofslxws.zip.

Run `$. ./instalofslxwsdb.sh`

```
[ @ofss220059 /tmp]$ ./instalofslxwsdb.sh
```

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

```
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 sa
me OFSLL DB schema.

Continue? [y/n]: y
```

Enter 'y' when prompted to continue.

```
Continue? [y/n]: y

What is the Oracle Financial Services Lending and Leasing
Home Path? (usually /home/ofsl1): /scratch/work_area/DEV/QA126

OFSLLHOME=/scratch/work_area/DEV/QA126
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.

```
What is the Oracle DB Home Path? /scratch/db/db1123/product/11.2.0.3/dbhome_1

ORAHOME=/scratch/db/db1123/product/11.2.0.3/dbhome_1
Okay? [y/n]: y

What is the Oracle SID? OFSLT
```

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=/bin:/usr/bin:/usr/dev_infra/platform/bin:/usr/dev_infra/generic/bin:/usr/local/bin:/usr/X11R6/bin:/usr/local/ade/bin:/scratch/db/db1123/product/11.2.0.3/dbhome_1/bin
ORACLE_HOME=/scratch/db/db1123/product/11.2.0.3/dbhome_1
ORACLE_SID=OFSLLT
OFSLL_HOME=/scratch/work_area/DEV/QA126

```

With the above environment, you should be able start SQLPlus and connect to the database. Do not continue if you cannot. Correct the environment and restart this script when it is correct

The script lists and sets the CRITICAL environment variables

```

Continue? [y/n]: y
.....
Oracle Financial Services Lending and Leasing Webservices Database Object Installation

The following items are available for installation:

      1. database types           (134)
      2. database tables         (1075)
      3. database views          (269)
      4. database trigger        (4)
      5. database package specs  (3010)
      6. database package bodies (3006)
      7. System Seed Data        (67666)

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'.

```
Continue with Installation? [y/n] : y

Log files will be located in /scratch/work_area/DEV/QA126/logs/ofs11_xws_install_log
s
Press Enter to Continue...

What is the Oracle userid (schema name) that will own the Oracle Financial Services
Lending and Leasing
objects? (usually ofs11prd): QA126

What is the password for this userid:

Installing Type objects...\C
@./xws_evw.sql
```

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

Oracle Financial Services Lending and Leasing Webservices DB Object Installation Com
plete.
```

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

3. Deploying Application Interface Web Services

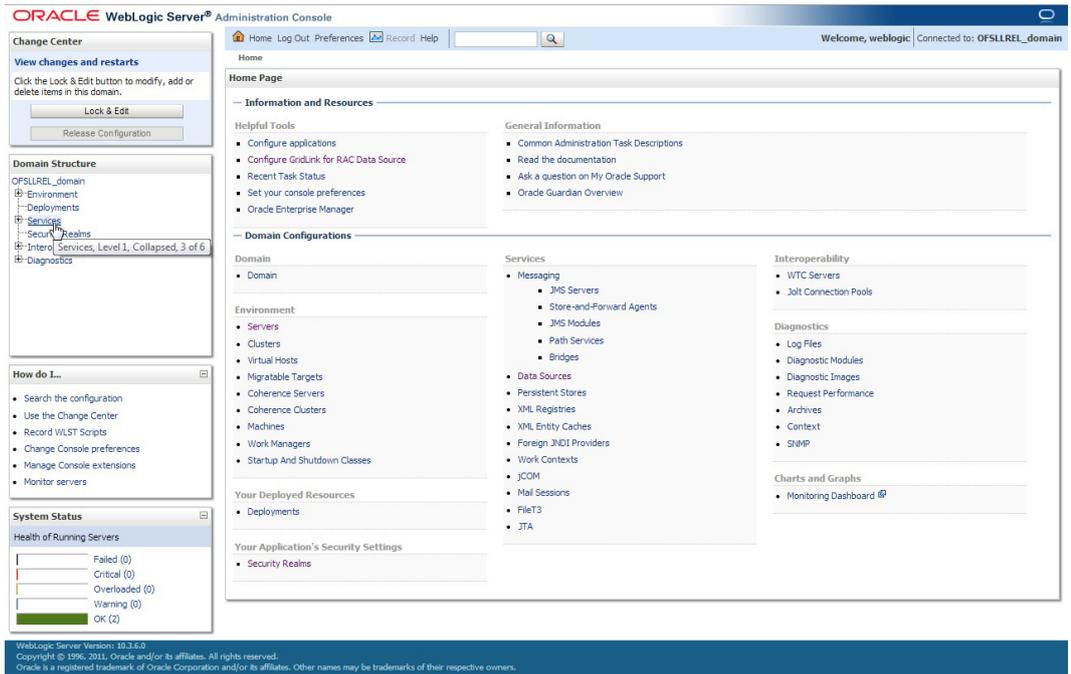
3.1 Creating Data Sources for Web Services

Create a new server on the console which will be specifically for Web Services.

1. Login to WebLogic Server 11g console (<http://hostname:port/console>).

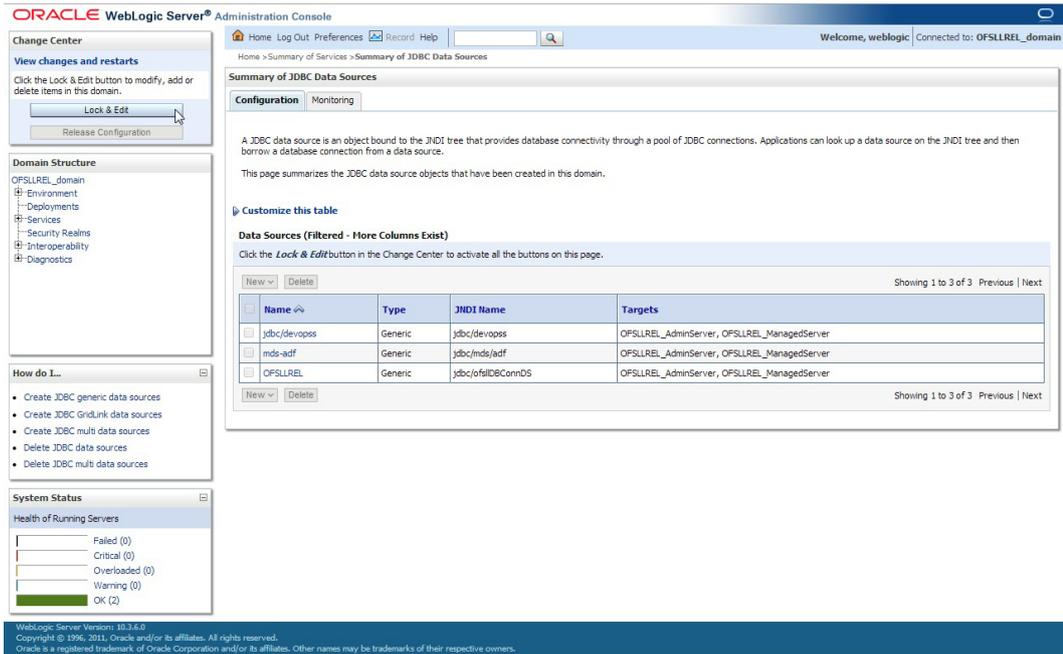


2. The following window is displayed.

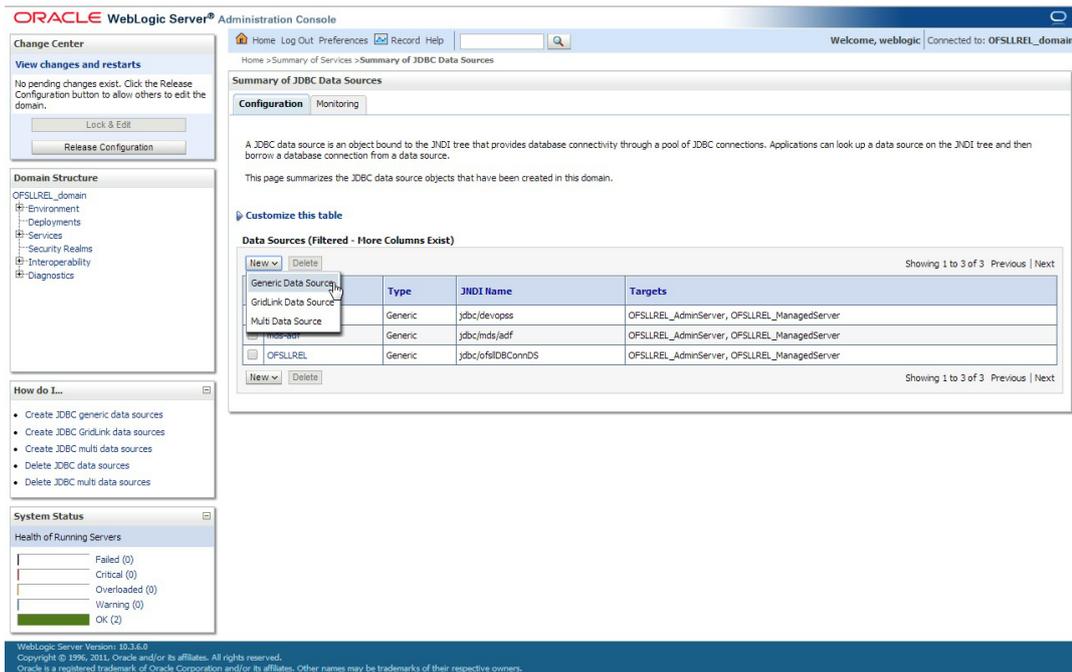


3. Click Domain Name -->Services -->Data Sources.

4. The following window is displayed.



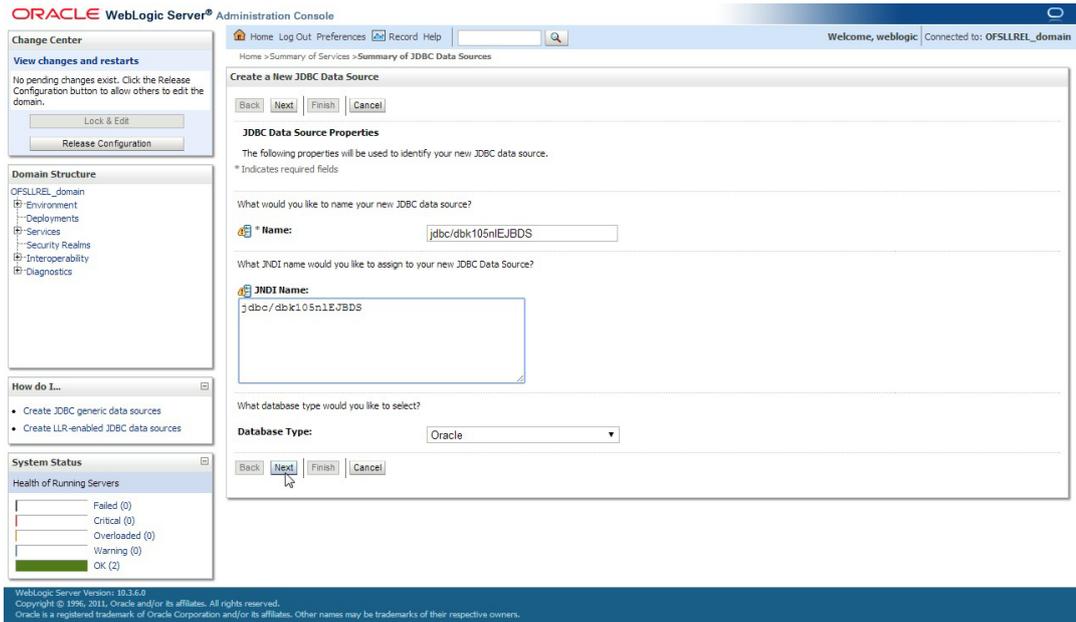
5. Click Lock & Edit button on the left panel. Click on New on right panel and select Generic Data Source.



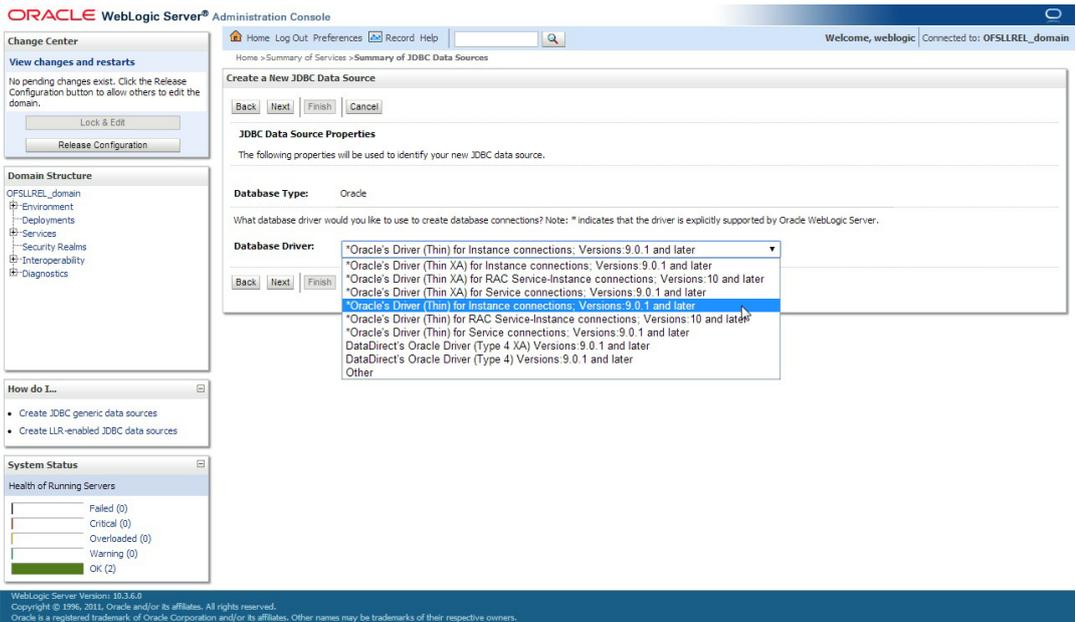
6. Enter Data source Name.

7. Enter JNDI Name as jdbc/dbk105nlEJBDS.

8. Select Oracle as Database Type and click Next.



9. The following window is displayed. Select the Database Driver "Oracle's Driver(Thin) for Instance connections;Versions:9.0.1 and later" as shown.



10. Click Next. The following window is displayed.

The screenshot shows the Oracle WebLogic Server Administration Console. The main window is titled "Create a New JDBC Data Source". It has a navigation bar at the top with "Home", "Log Out", "Preferences", "Record", and "Help". The user is logged in as "weblogic" and is connected to the "OFSSLREL_domain". The left sidebar contains several panels: "Change Center" (with "Lock & Edit" and "Release Configuration" buttons), "Domain Structure" (showing a tree view of the domain), "How do I..." (with links to generic and LLR-enabled data sources), and "System Status" (showing health of running servers). The main content area is titled "Transaction Options" and contains the following text: "You have selected non-XA JDBC driver to create database connection in your new data source. Does this data source support global transactions? If yes, please choose the transaction protocol for this data source." There are three radio button options: "Supports Global Transactions" (which is selected), "Logging Last Resource", and "Emulate Two-Phase Commit". Below these options is a "One-Phase Commit" section with a radio button that is also selected. At the bottom of the window are "Back", "Next", "Finish", and "Cancel" buttons.

11. Click Next. The following window is displayed.

The screenshot shows the Oracle WebLogic Server Administration Console. The main window is titled "Create a New JDBC Data Source". It has a navigation bar at the top with "Home", "Log Out", "Preferences", "Record", and "Help". The user is logged in as "weblogic" and is connected to the "OFSSLREL_domain". The left sidebar contains several panels: "Change Center" (with "Lock & Edit" and "Release Configuration" buttons), "Domain Structure" (showing a tree view of the domain), "How do I..." (with links to generic and LLR-enabled data sources), and "System Status" (showing health of running servers). The main content area is titled "Connection Properties" and contains the following text: "Define Connection Properties. What is the name of the database you would like to connect to?" There are four input fields: "Database Name" (with value "OFSSLREL"), "Host Name" (with value "ofss222406.in.oracle.com"), "Port" (with value "1521"), and "Database User Name" (with value "OFSSLREL"). Below these fields are two more input fields for "Password" and "Confirm Password", both with masked characters "*****". At the bottom of the window are "Back", "Next", "Finish", and "Cancel" buttons.

12. Enter Database details click Next. The following window is displayed.

ORACLE WebLogic Server® Administration Console

Home Log Out Preferences Record Help Welcome, weblogic Connected to: OFSLLREL_domain

Home > Summary of Services > Summary of JDBC Data Sources

Create a New JDBC Data Source

Test Configuration Back Next Finish Cancel

Test Database Connection

Test the database availability and the connection properties you provided.

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.)

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:@ofss222

What database account user name do you want to use to create database connections?

Database User Name: OFSLLREL

What is the database account password to use to create database connections?
(Note: for secure password management, enter the password in the Password field instead of the Properties field below.)

Password:

Confirm Password:

What are the properties to pass to the JDBC driver when creating database connections?

Properties: user=OFSLLREL

13. Click Test Configuration. The following window is displayed.

ORACLE WebLogic Server® Administration Console

Home Log Out Preferences Record Help Welcome, weblogic Connected to: OFSLLREL_domain

Home > Summary of Services > Summary of JDBC Data Sources

Messages

✓ Connection test succeeded.

Create a New JDBC Data Source

Test Configuration Back Next Finish Cancel

Test Database Connection

Test the database availability and the connection properties you provided.

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.)

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:@ofss222

What database account user name do you want to use to create database connections?

Database User Name: OFSLLREL

What is the database account password to use to create database connections?
(Note: for secure password management, enter the password in the Password field instead of the Properties field below.)

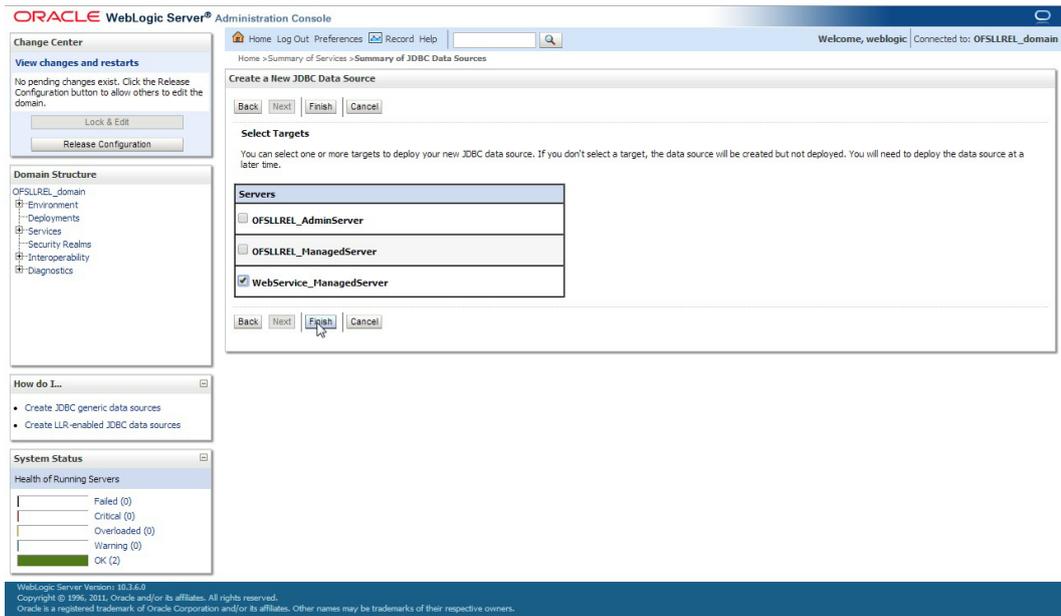
Password:

Confirm Password:

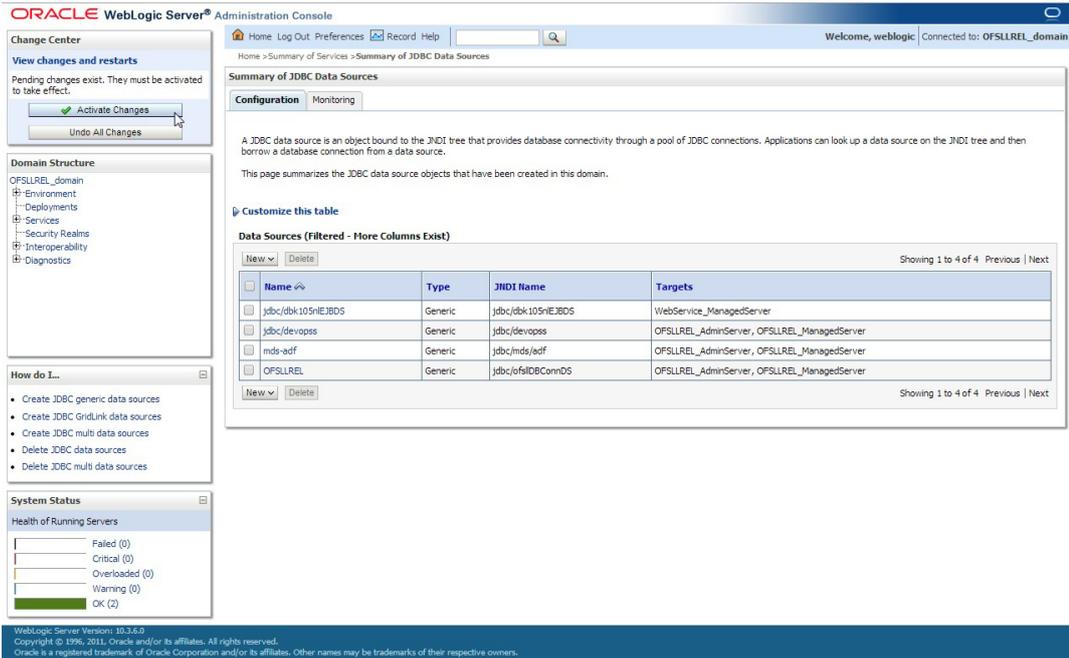
What are the properties to pass to the JDBC driver when creating database connections?

Properties: user=OFSLLREL

14. Displays confirmation message as "Connection test succeeded". Click Next. The following window is displayed.



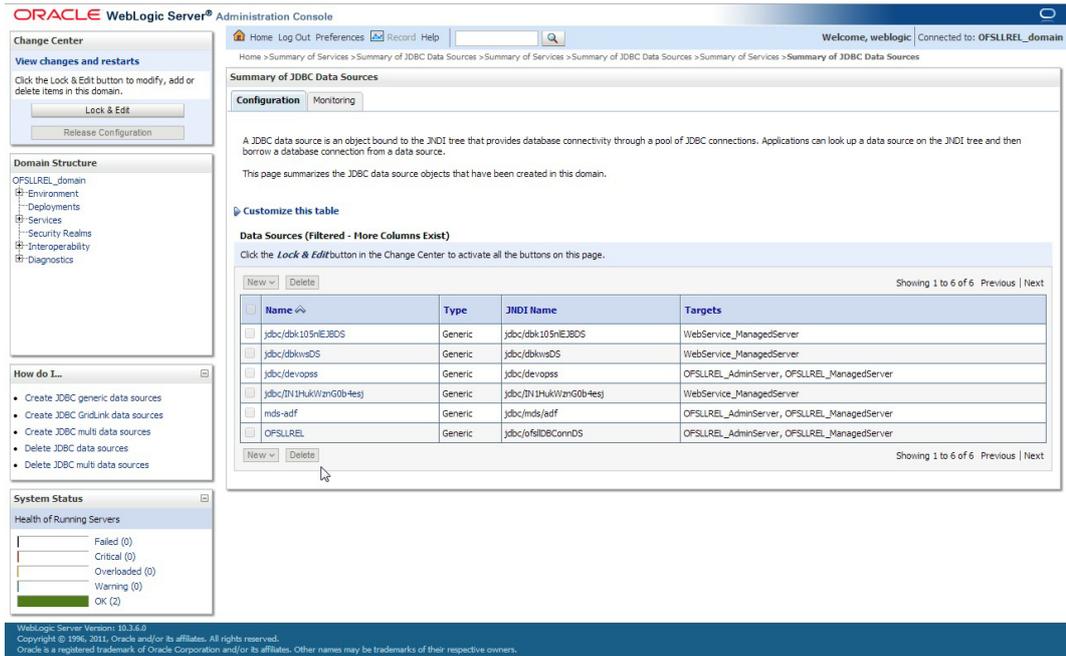
15. Select target Web Services Server and click Finish. The following window is displayed.



16. Click Activate Changes.

Similarly follow the steps 1 - 16 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:

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.
3. 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
```

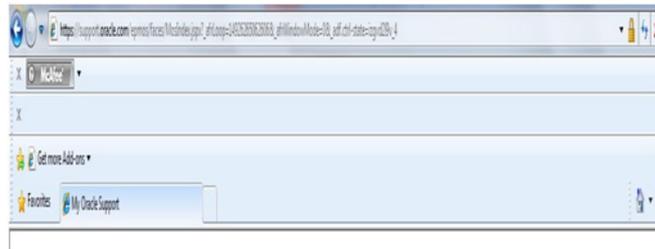
You may encounter error: **java.security.InvalidKeyException: Illegal key size or Cipher not initialize.**

As a fix add the following in the start-up script:

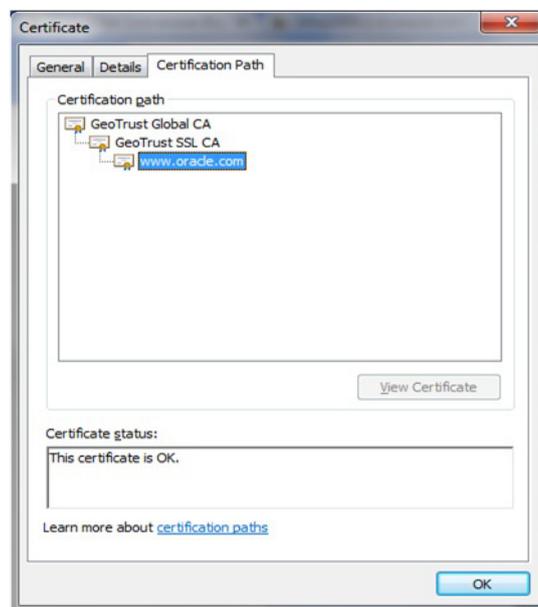
```
Dweblogic.security.SSL.nojce=true
```

3.2.1 Steps to Import Certificates to keystore

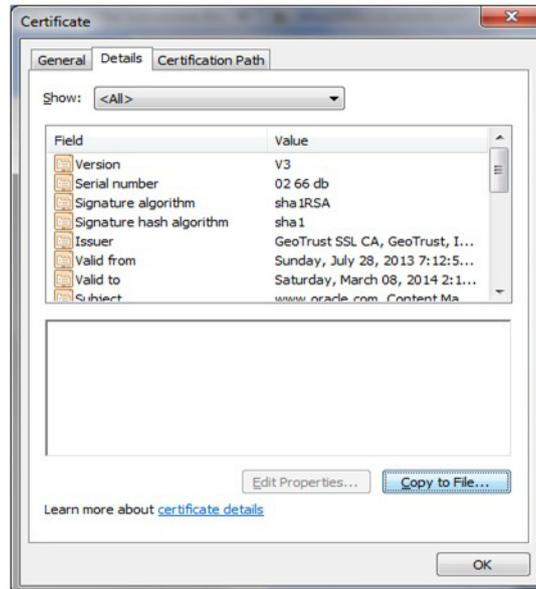
1. The JKS(dls_cacerts) should be available under /WEB-INF/classes/config.
2. Save all the certificates from the vendor website. Note to save the certificates in "Base-64 encoded X.509(.CER)" and with extn .cer. Steps for saving certificates from the vendor website:
 - Click on the padlock and choose "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 "Next". Choose 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 following to managed server start-up script:

```
Dssl.debug=true
```

3.2.3 Connecting to service supporting only TLS protocol

For WLS 10.3.6 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 Deploying Webservices

3.3.1 Deployment of Web services in Enterprise Manager

1. Download and unzip the Web services - ofslxws.zip.

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
CSSAccountDetailsRequestService: 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 application/deal refresh from route one
CSSAccountSearchRequestService: Service to fetch Account Details by attributes such as AccountNumber, CustomerFirstName, CustomerLastName, SSN	DT Interface: To receive comments from dealer track	DS Interface: To receive edocs location update	RO Interface: To receive comments from route one
CSSPostTransactionsRequestService: To post different transactions such as update address, update phone number, update ACH details, etc	LOSPostStatusRequestService: To post comments to dealer track		LOSPostStatusRequestService: To post comments to route one

CSSAccountPay-OffQuoteRequestService: To get the account payoff quote	LOSPostStatusRequestService: To post application status to dealer track		LOSPostStatusRequestService: To post application status to route one
LOSeApplicationRequestService: Edocs application update service	ILOSPostDealerDetailsService: To post dealer details to dealer track		ILOSPostDealerDetailsService: To post dealer details to dealer track
LOSApplicationRequestService: Loan application entry service			
LOSApplicationSearchRequestService: Application Search service			
LOSApplicationSearchRequestService: Application Search service			
LOSApplicationCommentUpdateService: Edocs application comment update service			
LOSPostStatusRequestService: Service to post loan application status			
LOSApplicationUpdateService: Service to update an existing application			
LOSCheckStatusRequestService: Service to check application status			

2. 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

```

[orafmw@ofss220067 tmp]$ unzip ofsslxws.zip -d ofsslxws
Archive:  ofsslxws.zip
  inflating: ofsslxws/dbkls-xxws.ws.app-ds.ear
  inflating: ofsslxws/dbkls-xxws.ws.app-dt.ear
  inflating: ofsslxws/dbkls-xxws.ws.app-ro.ear
  inflating: ofsslxws/dbkls-xxws.ws.app.ear
[orafmw@ofss220067 tmp]$ cd ofsslxws
[orafmw@ofss220067 ofsslxws]$ ls
dbkls-xxws.ws.app-ds.ear  dbkls-xxws.ws.app-dt.ear  dbkls-xxws.ws.app.ear  dbkls-xxws.ws.app-ro.ear
[orafmw@ofss220067 ofsslxws]$ 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
[orafmw@ofss220067 ofsslxws]$ cd dbkls-xxws.ws.app-ds
[orafmw@ofss220067 dbkls-xxws.ws.app-ds]$ ls
dbkls-xws-web-ds.war  META-INF
[orafmw@ofss220067 dbkls-xxws.ws.app-ds]$ 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/
  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/utills/
  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/

```

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

```

[orafmw@ofss220067 ws_as]$ 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 ofsslxws.zip
drwxr----- 8 orafmw oinstall 4096 Apr 10 15:09 ..
drwxr-xr-x 3 orafmw oinstall 4096 Apr 10 16:26 dbkls-xxws.ws.app-ds
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
[orafmw@ofss220067 ws_as]$ cd dbkls-xxws.ws.app
[orafmw@ofss220067 dbkls-xxws.ws.app]$ ls
dbkls-xws-web.war  META-INF
[orafmw@ofss220067 dbkls-xxws.ws.app]$ 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/utills/
  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/

```

4. It creates a WEB-INF file

```

[orafmw@ofss220067 dbkls-xxws.ws.app]$ 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)

- commons-logging-1.0.4.jar

- jdom 2.0.4.jar

- soap-2.3.1.jar

-----> wsdl (directory)

- *.wsdl

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

-----> web.xml

-----> weblogic.xml

-----> weblogic-webservices.xml

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

-----> webservices.xml

5. 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 OFSSL eDocs web service

LOSeApplicationRequestServiceURL = http://<localhost>:<port>/dbkls-xws-app-ds/LOSeApplicationRequestService
LOSeApplicationCommentUpdateServiceURL = http://<localhost>:<port>/dbkls-xws-app-ds/LOSeApplicationCommentUpdateService
LOSeApplicationLocationUpdateServiceURL = http://<localhost>:<port>/dbkls-xws-app-ds/LOSeApplicationLocationUpdateService
#### URL for OFSSL application update web service
```

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

```
#### URL for OFSSL new application web service

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

#### URL for OFSSL application update web service

LOSeApplicationUpdateServiceURL = http://<localhost>:<port>/dbkls-xws-app-dt/LOSeApplicationUpdateService
```

- 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>:<port>/dbkls-xws-app-ro/LOSApplicationRequestService

#### URL for OFSLL application update web service

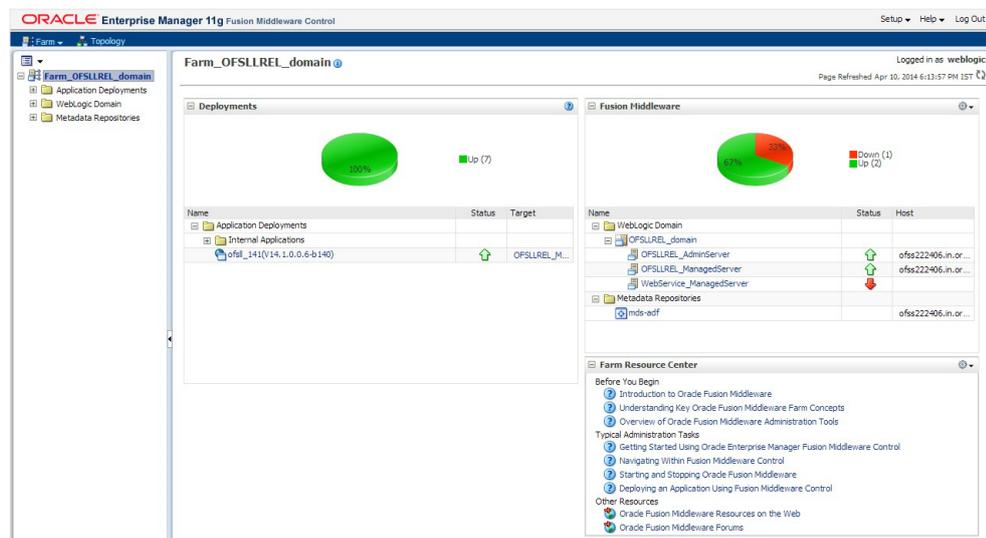
LOSApplicationUpdateServiceURL = http://<localhost>:<port>/dbkls-xws-app-ro/LOSApplicationUpdateService

```

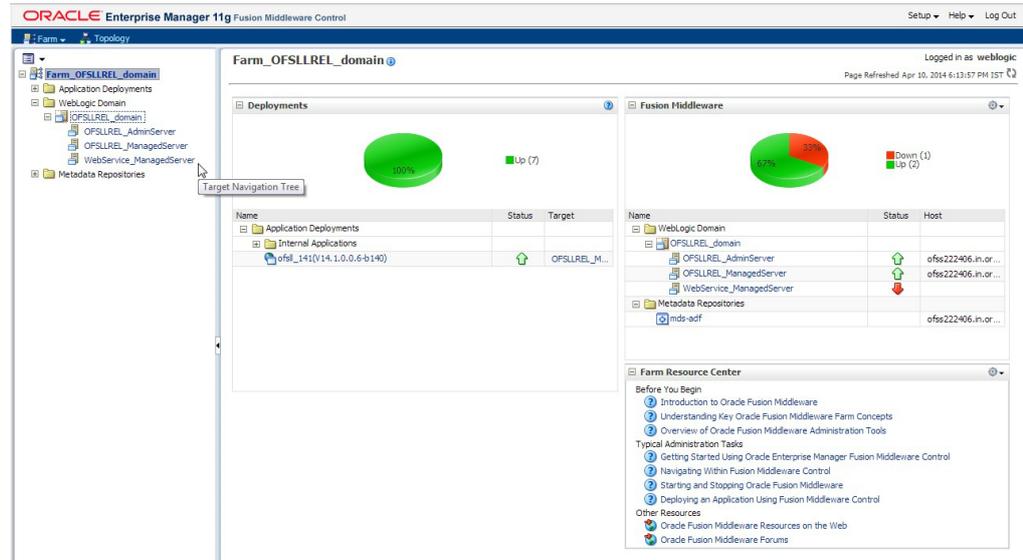
6. Login to Web Logic application server enterprise manager (e.g.: <http://hostname:port/em>)



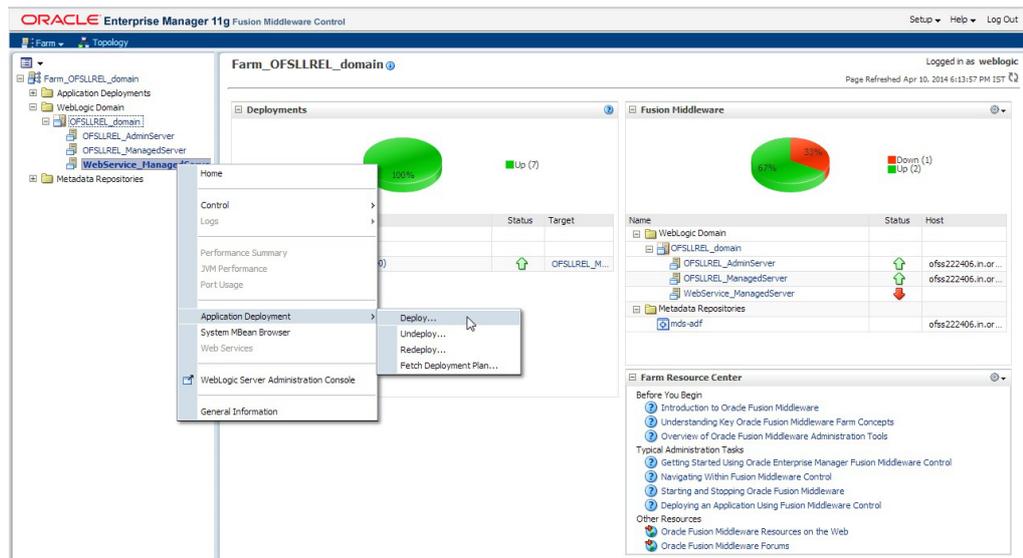
7. Enter valid login credentials. The following window is displayed.



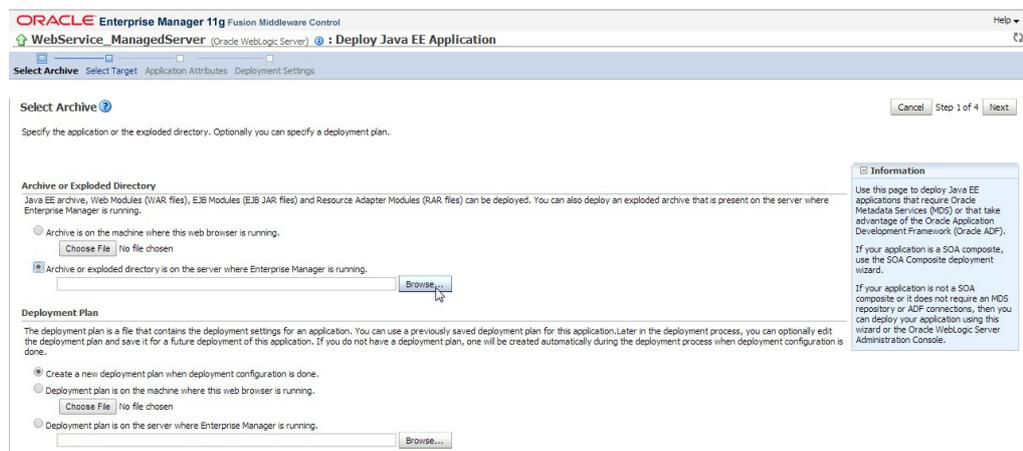
- Expand the weblogic domain present in the left pane. The following window is displayed.



- Right click on WebService_ManagedServer in left panel, select Application Deployment->Deploy.



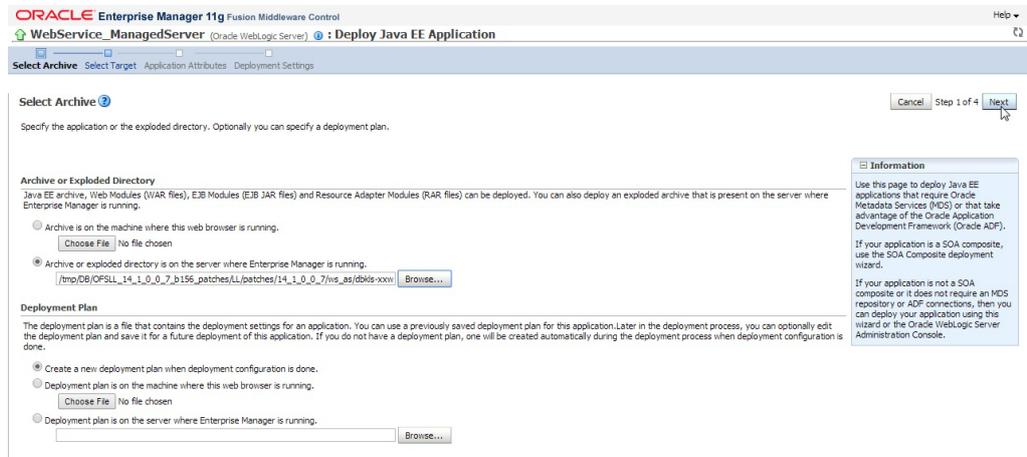
- The following window is displayed.



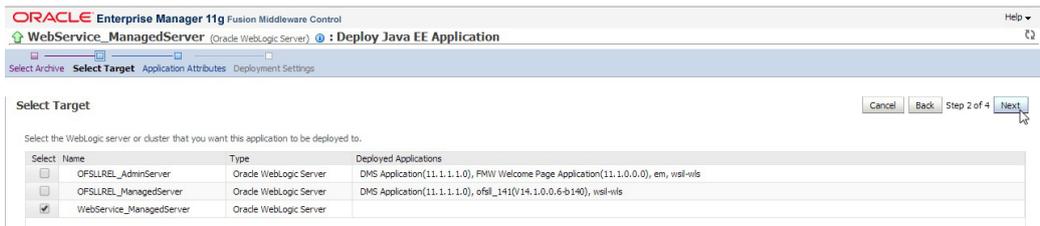
11. Browse to the folder containing the web service.

Eg: /scratch/ofsllxws/dbkls-xxws.ws.app

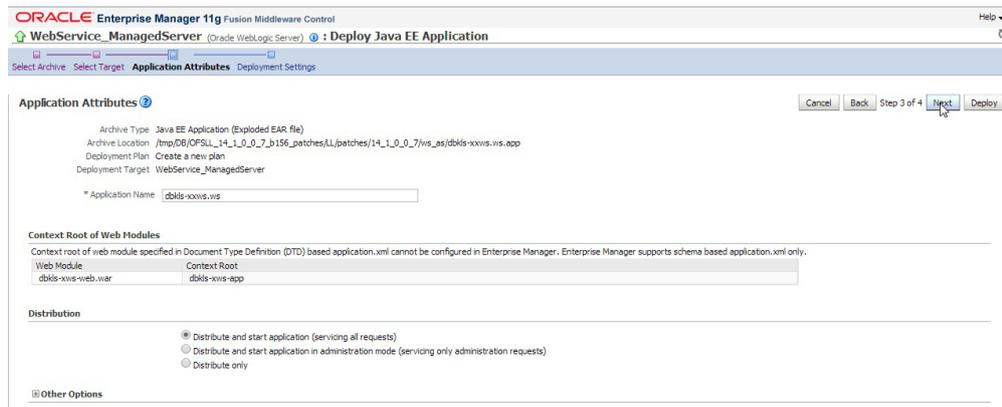
Click on Next.



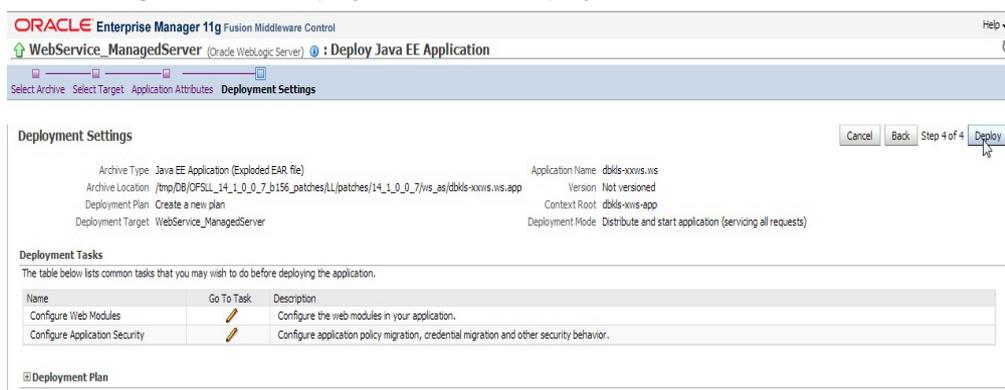
12. The following window is displayed. Select the server on which the web service needs to be deployed. Click on Next.



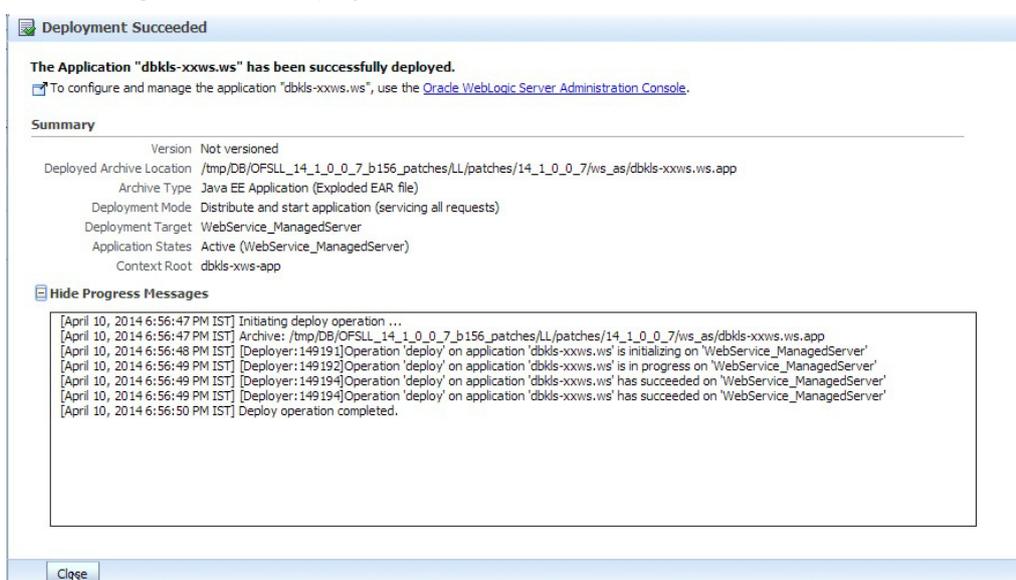
13. The following window is displayed. Check the context root and click on Next.



14. The following window is displayed. Click on Deploy.



15. The following window is displayed. Click on close.



16. If required, similarly deploy rest of the web services.

17. In case the context root has to be changed for the web services, it can be changed by editing the application.xml or through the console. To change through console, login to WebLogic Server 11g console (<http://hostname:port/console>).

18. 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 Service 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

Service	Service EAR	Recommended Context	Remark
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

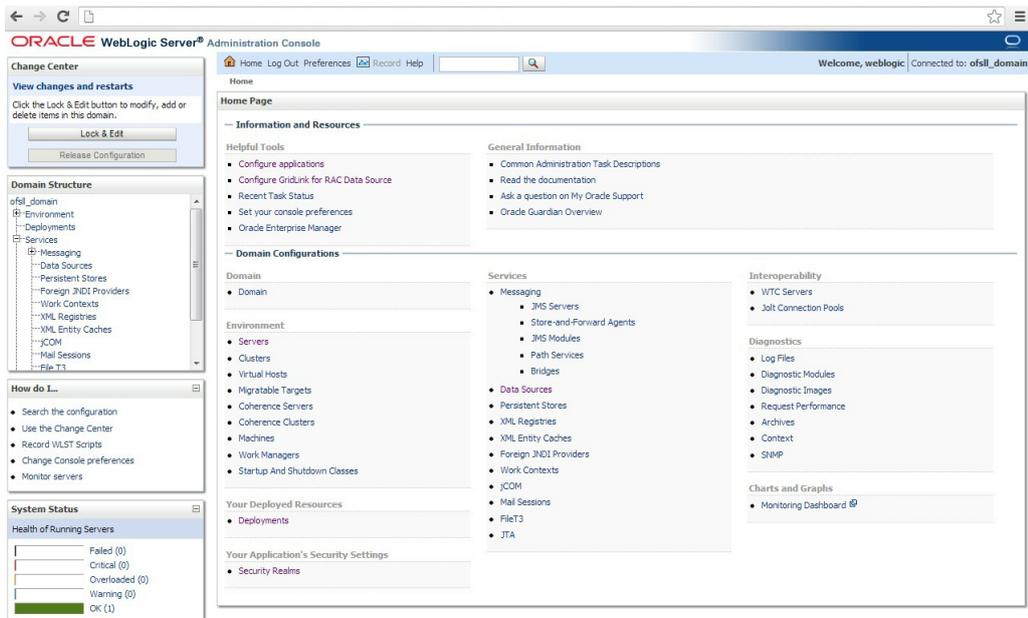
19. Ensure that the application status is **Active**.

4. Configuring Weblogic Policy on Web Services

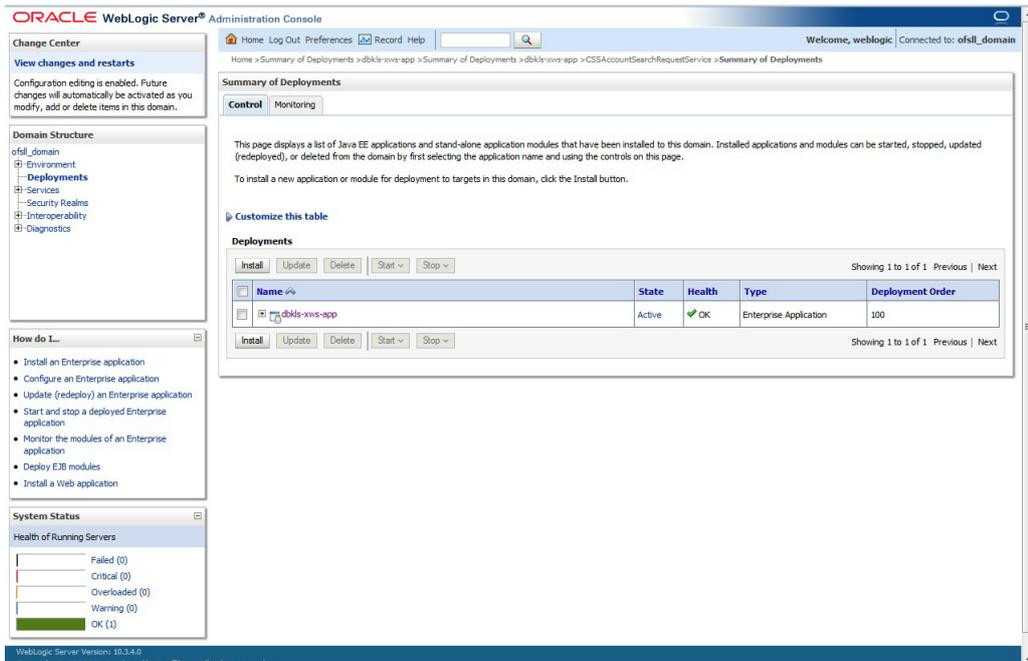
After deploying Web Services, you must configure Weblogic Policy on Web Services.

To configure:

1. Login to WebLogic application server console (<http://hostname:port/console>)
2. Following screen will be shown.

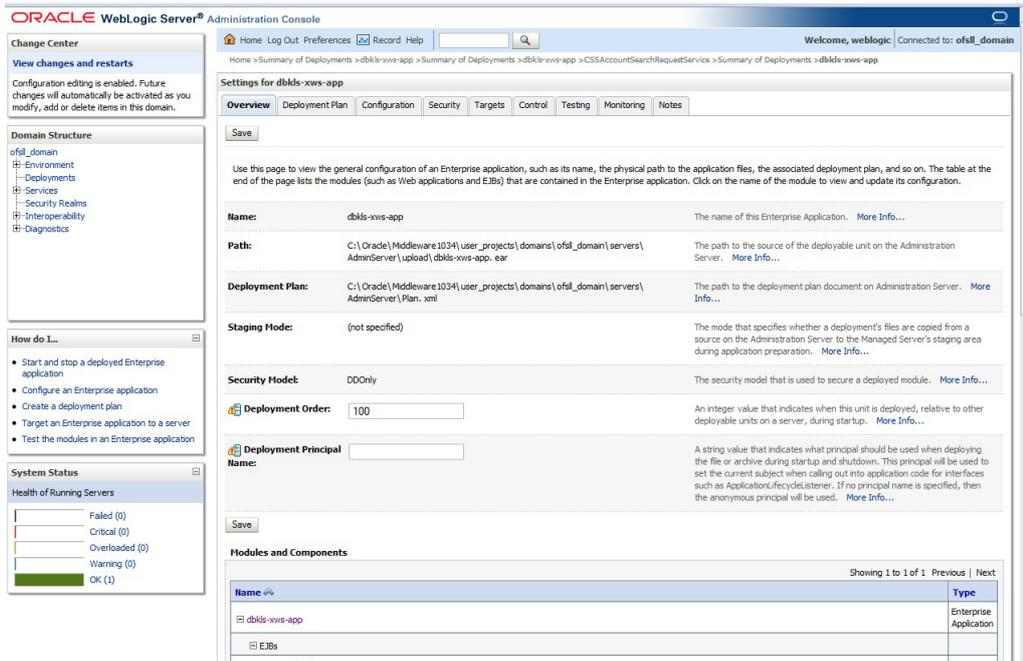


3. Click Deployments which is available on both side panels as marked above.
4. Following screen will be shown.

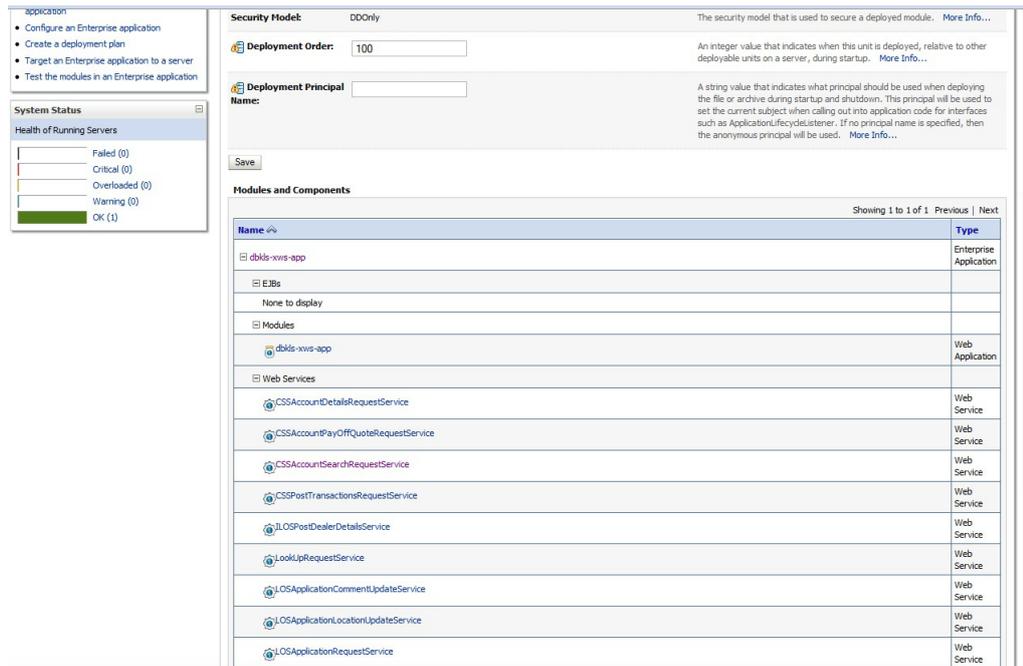


5. Click on application name dbkls-xws-app on right side panel.

6. Following screen appears.

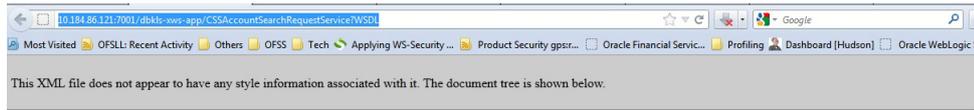


7. Scroll down the page.



8. Click on WebServices CSSAccountSearchRequestService.

9. The WSDL will be accessible on http before applying WS-Policy.

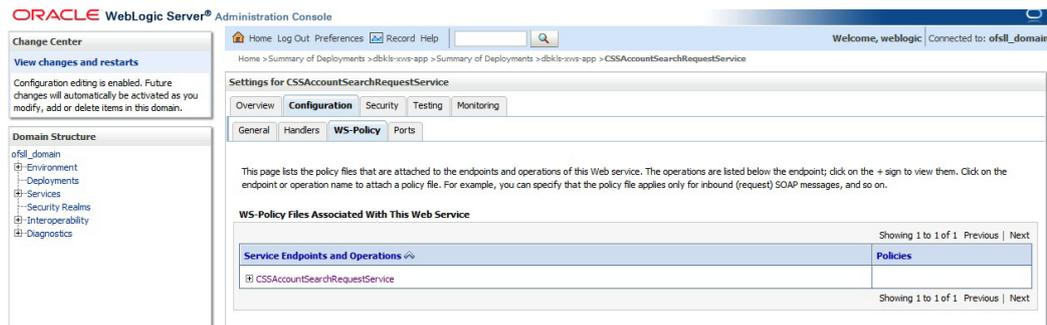


```

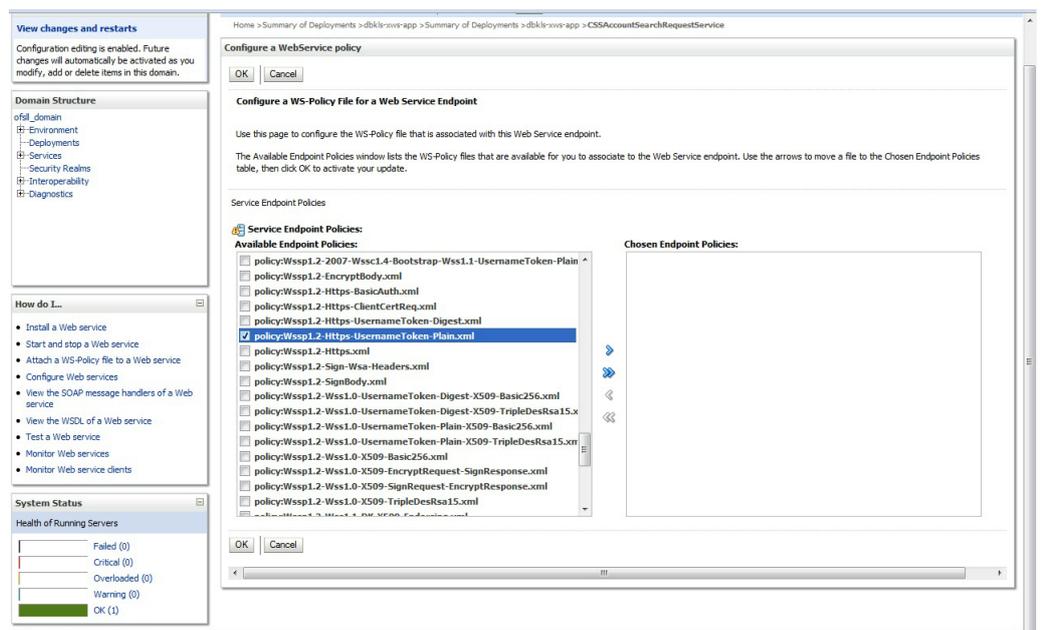
<WLSG3N0:definitions name="CSSAccountSearchRequestService" targetNamespace="http://com/ofss/fl/xws/xcs/AccountSearch.wsdl">
  <WLSG3N0:types>
    <xsd:schema targetNamespace="http://com.ofss.fl.xws.xcs/ICSSAccountSearchRequestService.xsd"/>
    <WLSG3N0:types>
  <WLSG3N0:message name="doAccountSearchStr0Request">
    <WLSG3N0:part name="requestStr" type="WLSG3N1:string"/>
  <WLSG3N0:message>
  <WLSG3N0:message name="doAccountSearchStr0Response">
    <WLSG3N0:part name="return" type="WLSG3N1:string"/>
  <WLSG3N0:message>
  <WLSG3N0:portType name="AccountSearchRequestService">
    <WLSG3N0:operation name="doAccountSearch">
      <WLSG3N0:input message="WLSG3N2:doAccountSearchStr0Request" name="doAccountSearchStr0Request"/>
      <WLSG3N0:output message="WLSG3N2:doAccountSearchStr0Response" name="doAccountSearchStr0Response"/>
    <WLSG3N0:operation>
  <WLSG3N0:portType>
  <WLSG3N0:binding name="CSSAccountSearchRequestService" type="WLSG3N2:AccountSearchRequestService">
    <WLSG3N3:binding style="rpc" transport="http://schemas.xmlsoap.org/soap/http"/>
  <WLSG3N0:operation name="doAccountSearch">
    <WLSG3N3:operation style="rpc"/>
  <WLSG3N0:input name="doAccountSearchStr0Request">
    <WLSG3N3:body namespace="CSSAccountSearchRequestService" use="literal"/>
  <WLSG3N0:input>
  <WLSG3N0:output name="doAccountSearchStr0Response">
    <WLSG3N3:body namespace="CSSAccountSearchRequestService" use="literal"/>
  <WLSG3N0:output>
  <WLSG3N0:operation>
  <WLSG3N0:binding>
  <WLSG3N0:service name="CSSAccountSearchRequestService">
    <WLSG3N0:port binding="WLSG3N2:CSSAccountSearchRequestService" name="CSSAccountSearchRequestService">
      <WLSG3N3:address location="http://10.184.86.121:7001/dbkls-xws-app/CSSAccountSearchRequestService"/>
    <WLSG3N0:port>
  <WLSG3N0:service>
</WLSG3N0:definitions>

```

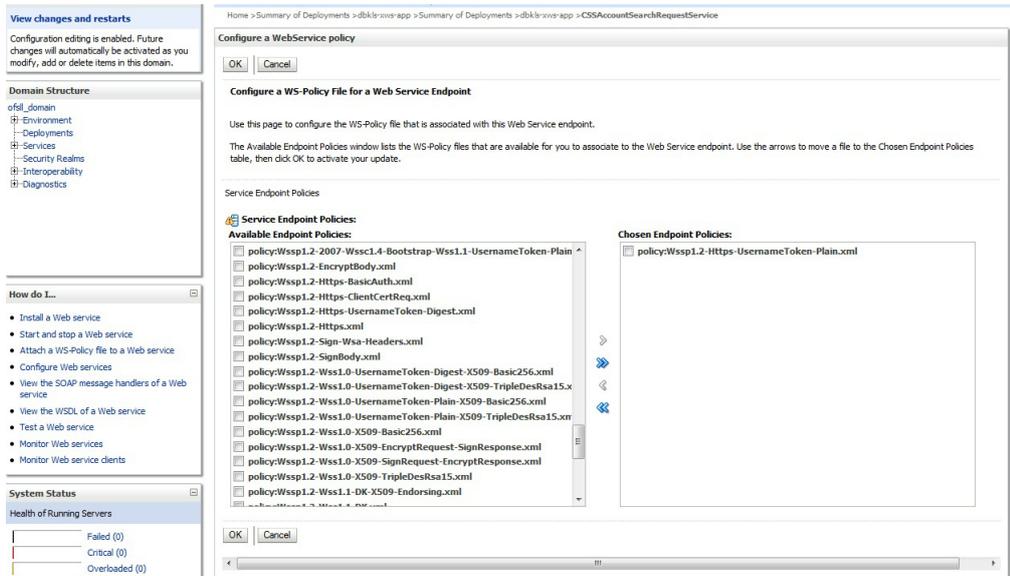
10. Browse to Configuration ' WS-Policy



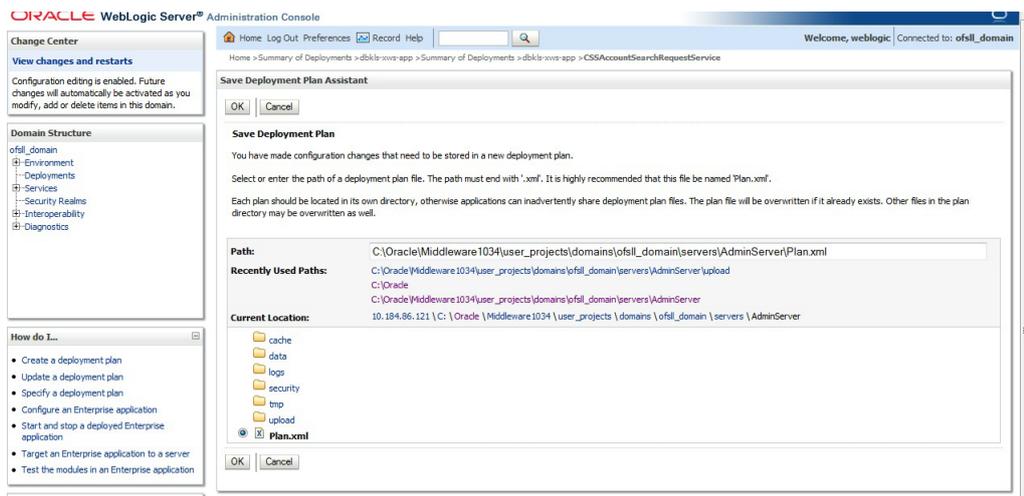
11. Click on CSSAccountSearchRequestService.



- Select policy:Wssp1.2-Https-UsernameToken-Plain.xml and click arrow button as shown above.

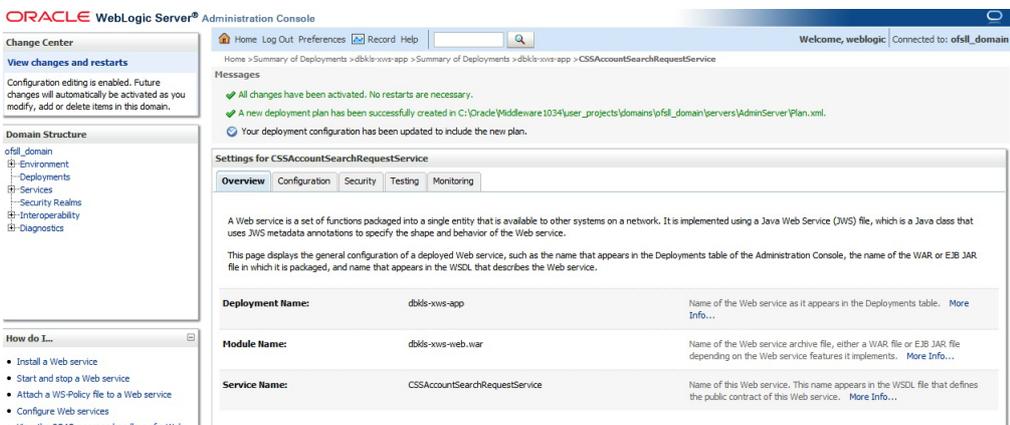


- Click OK.



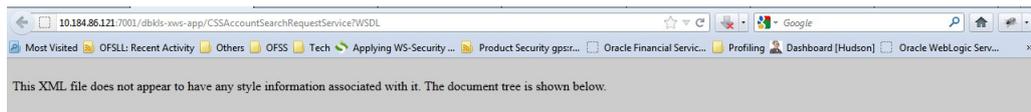
- Browse to any folder to save Deployment Plan.

- Then Click OK.



- Now you will be not able to access the WSDL on http port.

17. Following message will be shown when you access with http URL.



```

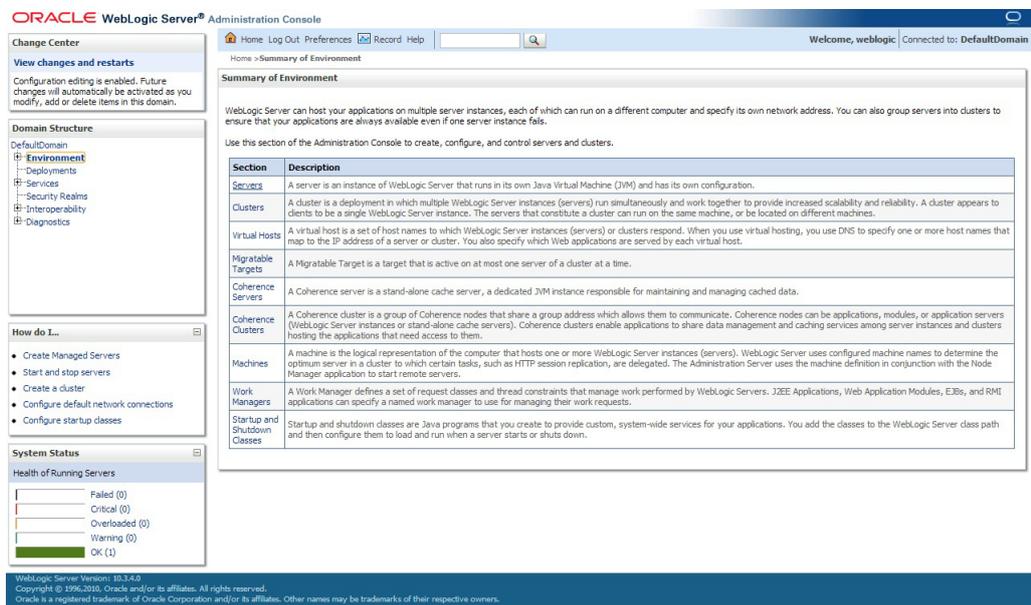
- <env:Envelope>
  <env:Header>
  - <env:Body>
    - <env:Fault>
      <faultcode>env:Client.Access</faultcode>
      <faultstring>SSL Required!</faultstring>
    </env:Fault>
  </env:Body>
</env:Envelope>

```

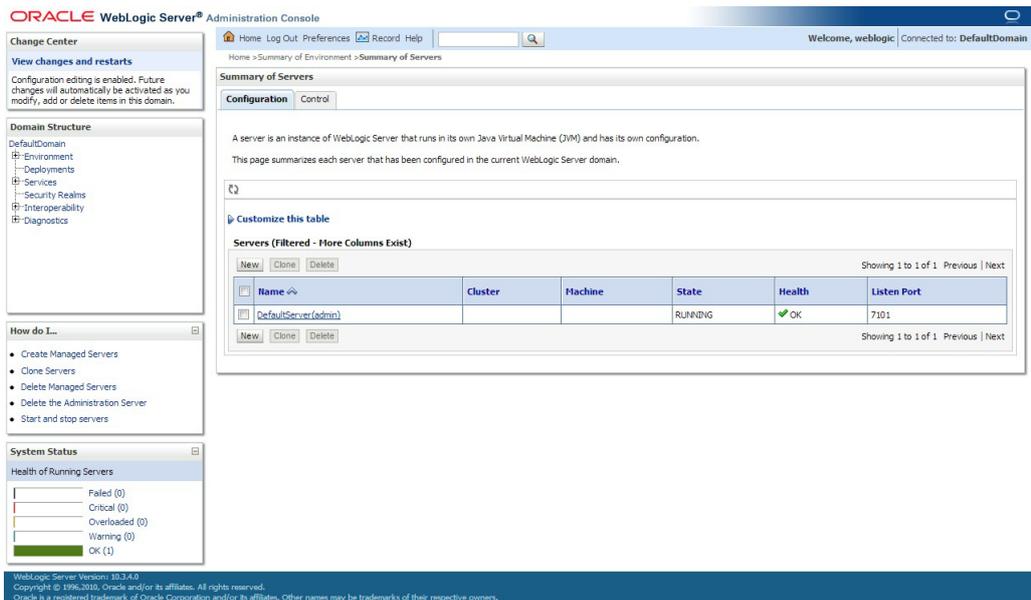
For SSL communication, the vendor servers seek public certificates. Hence, you need to download the certificates from vendor website and import into your java keystore.

You then need to configure Weblogic to present the certificates to vendor servers for successful handshake.

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



19. Click Servers



20. Select the Server into which the webservice are deployed.

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled 'Settings for DefaultServer' and has several tabs: General, Cluster, Services, Keystores, SSL, Federation Services, Deployment, Migration, Tuning, Overload, Health Monitoring, Server Start, and Web Services. The 'Keystores' tab is active. Below the tabs, there are several configuration fields:

- Name:** DefaultServer
- Machine:** (None)
- Cluster:** (Standalone)
- Listen Address:** (Empty text box)
- Listen Port Enabled:**
- Listen Port:** 7101
- SSL Listen Port Enabled:**
- SSL Listen Port:** 7002
- Client Cert Proxy Enabled:**
- Java Compiler:** javac
- Diagnostic Volume:** Low

On the left side, there are three panels: 'Change Center', 'Domain Structure' (showing a tree view of the environment), and 'System Status' (showing health indicators for running servers).

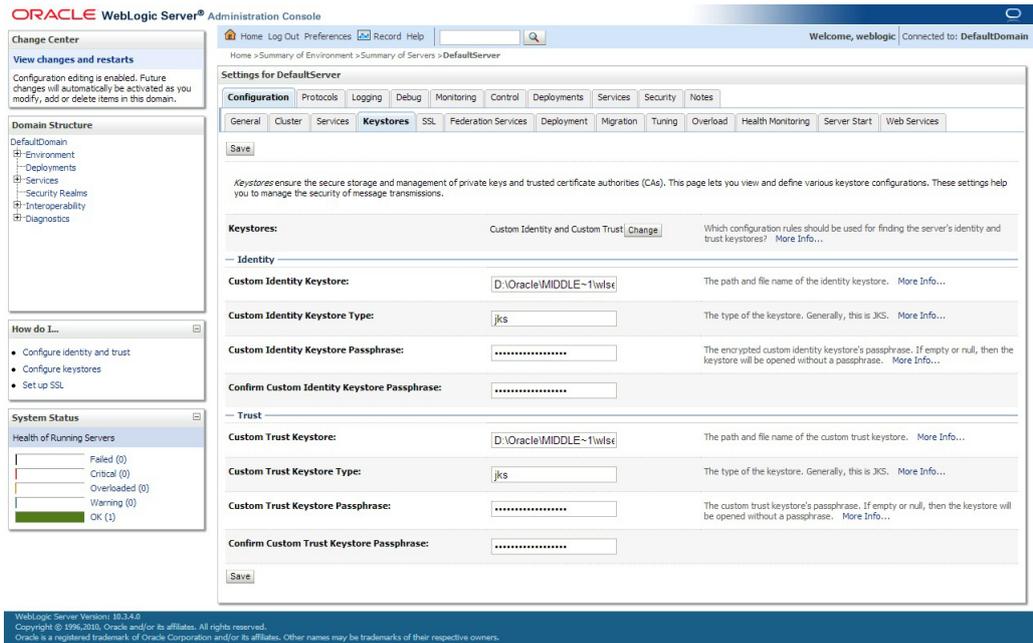
21. Select Keystores.

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled 'Settings for DefaultServer' and has several tabs: Configuration, Protocols, Logging, Debug, Monitoring, Control, Deployments, Services, Security, and Notes. The 'Keystores' tab is active. Below the tabs, there are several configuration fields:

- Keystores:** A dropdown menu is open, showing the following options:
 - Custom Identity and Custom Trust
 - Custom Identity and Command Line Trust
 - Custom Identity and System Trust
 - Custom Identity and Java Standard Trust
 - Demo Identity and Demo Trust

On the left side, there are three panels: 'Change Center', 'Domain Structure' (showing a tree view of the environment), and 'System Status' (showing health indicators for running servers).

22. Click **Change** and select **Custom Identity and Custom trust** from the drop-down list.



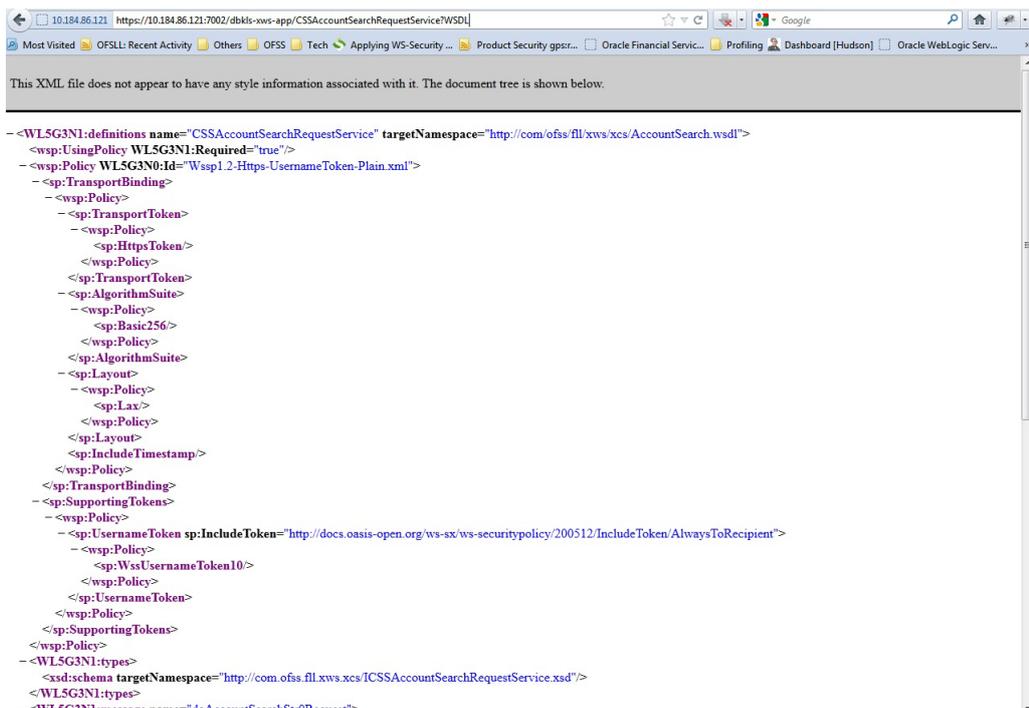
Specify

- 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 Passphrases: keystore password

23. Click **Save**.

24. The WSDL can be accessed on https port as below.

25. The WS-Policy will be shown in WSDL.



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

1. CSSAccountDetailsRequestService
2. CSSAccountPayOffQuoteRequestService
3. CSSAccountSearchRequestService
4. CSSPostTransactionsRequestService

5. Verifying Successful Installation

5.1 Steps to Verify Successful Webservices deployment:

1. Making sure that the state is ACTIVE and health in 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 Steps to Verify Successful Interface (Route One) deployment:

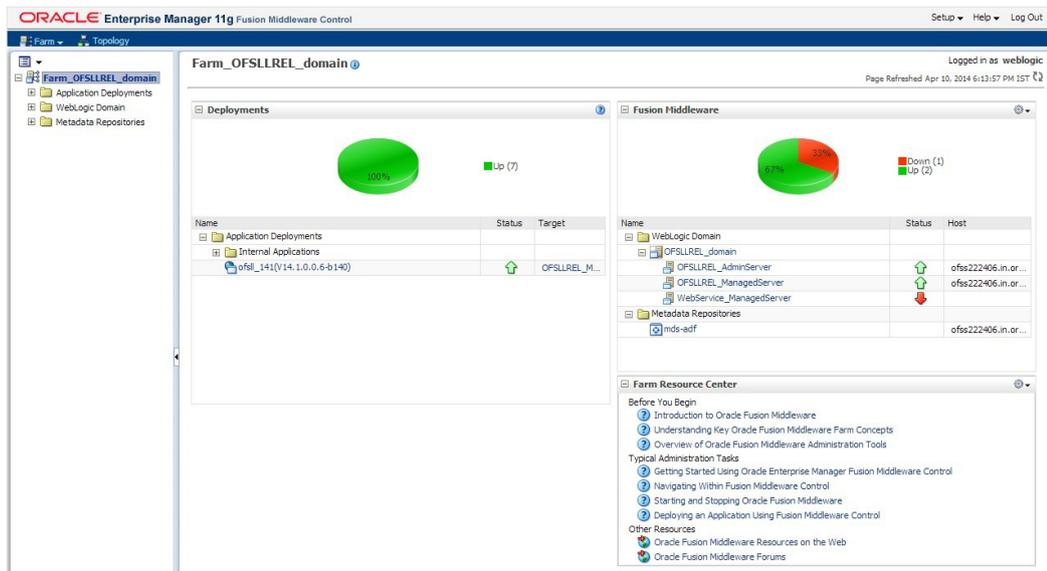
1. Making sure that the state is ACTIVE and health in OK in the Weblogic
2. Accessing the interface URLs mentioned below from the browser and receiving error: "No valid XML found":
 - `"http://<hostname>:<port>/<context root>/postdt2xws?xaeprc`
 - `"http://<hostname>:<port>/<context root>/postds2xws?xaeprc`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

6. Undeployment of Web Services

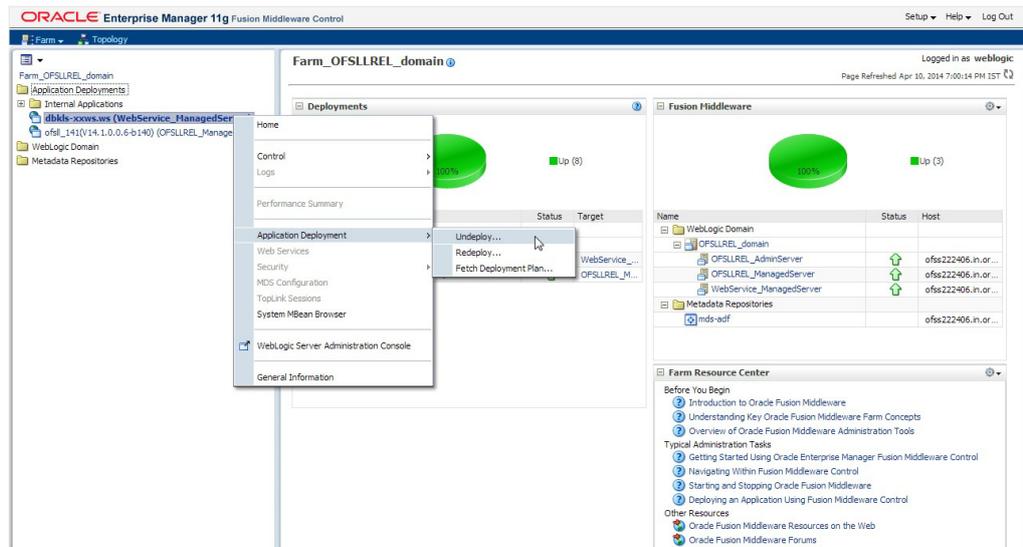
1. Login to Web Logic application server enterprise manager (eg.: http://hostname:port/em).



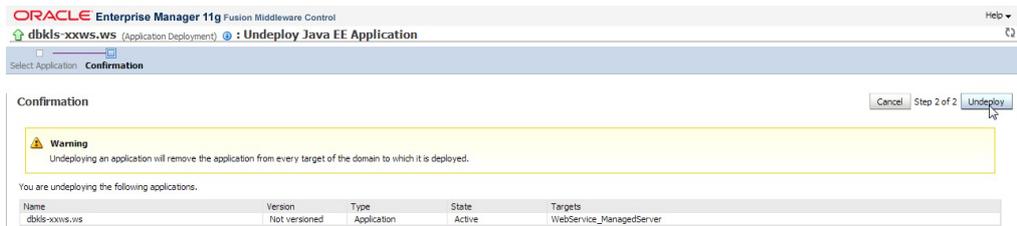
2. Enter valid login credentials. The following window is displayed.



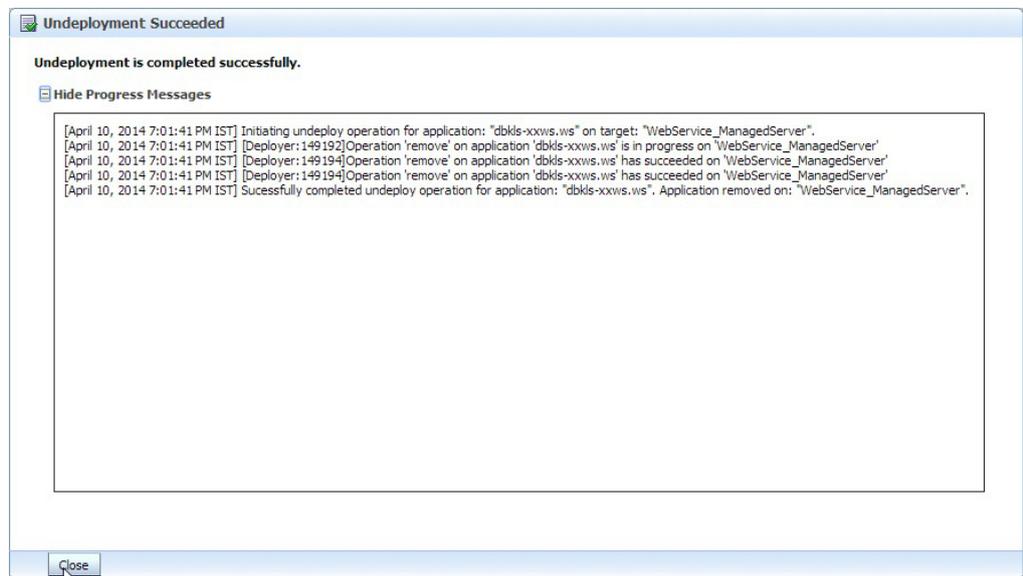
- Expand Application Deployments. Right click on the web service to be undeployed. Select Undeploy.



- The following window is displayed. Click on Undeploy.



- The following window is displayed. Click on Close.



- Similarly undeploy rest of the web services present.

7. Enable Logging

7.1 Enabling Web Service 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 below mentioned steps. Follow the steps below:

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/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:

Argument	Djava.util.logging.config.file=<Path of the above logging.properties file>/logging.properties
Example	nohup ./startManagedWebLogic.sh -Djava.util.logging.config.file=<Path of the above logging.properties file>/logging.properties &

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`

7.2 Enabling SQL Log for Web Services 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.

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
----------------------------------------------	--------------------------------------------------------------------	------------------------------------------------------------	------------------------------------------------------------------

CSSAccountDetailsRequestService: 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
CSSAccountSearchRequestService: 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
CSSPostTransactionsRequestService: XCSUP-D_EM_100_01	To post comments to dealer track: XAECHK_EM_100_01		To post comments to route one: XAECHK_EM_100_01
CSSAccountPayOffQuoteRequestService: N/A	To post application status to dealer track: XAECHK_EM_100_01		To post application status to route one: XAECHK_EM_100_01
LOSeApplicationRequestService: 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
LOSApplicationRequestService: XAE-PRC_EM_100_01			
LOSApplicationSearchRequestService: XAE-QUE_EM_100_01			
LOSApplicationLocationUpdateService: XAE-EDS_EM_100_01			
LOSApplicationCommentUpdateService: XAE-EDS_EM_100_01			
LOSPostStatusRequestService: XAECHK_EM_100_01			

LOApplicationUpdateService: XAEUP- D_EM_100_01			
LOCheckStatus-RequestService: XAECH- K_EM_100_01			

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			
LOSApplicationRequestServiceURL	http://<HOST NAME>:<PORT>/<CONTEXT ROOT>/LOSApplicationRequestService	URL for OFSLL New application web service	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://host-name:port/dbkls-xws-app-ro/LOSApplicationRequestService
LOSApplicationUpdateServiceURL	http://<HOST NAME>:<PORT>/<CONTEXT ROOT>/LOSApplicationUpdateService	URL for OFSLL application update web service	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://host-name:port/dbkls-xws-app-ro/LOSApplicationUpdateService
keystoreLocation	config/dls_cacerts	Parameter to set keystore location	The keystore location should not be changed and keystore should be available in this location
keystorePassword	changeit	The keystore password	The default password is "changeit". Modify the property in case the password is different for the keystore.
roKeyAlias	routeone_pub	RouteOne's public key alias name. The public key is needed to verify the xml signature of the request.	You may import the route one public key with alias "routeone_pub" else modify the property value to alias used while importing the public key into 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_routeone" else modify the property value to alias used while importing the private key into keystore.

Property Name	Property Value	Description	Remarks
sscroKeyPass-word	demotestSSCR1	OFSLL's private key password	demotestSSCR1 is a sample value
postURL	https://messaging.itl.routeone.net/IF1_ITL/CASSB-MessagingReceiver	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.
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_xae_init.conf			
lenderId	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
dealerElementName	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	Needed only for RouteOne
jndiLookupDataSource	jdbc/IN1Huk-WznG0b4esj	Parameter that defines the JNDI lookup for the applicaton datasource	Don't modify the value
keystoreLocation	config/dls_cacerts	Parameter to set location for public/private key store for HTTPS posting and for XML Digital Signature	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	OFSSL'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.
sscroKeyPassword	demotestSSCR1	OFSSL'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.	

Property Name	Property Value	Description	Remarks
proxyPort	80	Parameter to set proxy port. This is required if useProxy is set to 1.	
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_LENDER_NAME	The finance source name used in the dealer file	SOME_LENDER_NAME is a sample value
dealerElementName	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
fileDelimiter	,	Delimiter used in dealer header file	
jndiLookupDataSource	jdbc/dbk105nIE-JBDS	Parameter that defines the JNDI look up for the applicaton datasource	Don't modify the value
keystoreLocation	config/dls_cacerts	Parameter to set location for public/private key store for HTTPS posting and for XML Digital Signature	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_routetone	OFSSL'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_routetone" else modify the property value to alias used while importing the private key into keystore.

Property Name	Property Value	Description	Remarks
sscroKeyPassword	demotestSSCR1	OFSLL's private key password	demotestSSCR1 is a sample value
Configuration File: Logging.properties			
handlers	java.util.logging.FileHandler, java.util.logging.ConsoleHandler		
java.util.logging.FileHandler.level	ALL		
java.util.logging.FileHandler.pattern	/somewhere/logs/dbkls_xws_%g.log		
java.util.logging.FileHandler.limit	1000000		
java.util.logging.FileHandler.count	4		
java.util.logging.FileHandler.append	true		
java.util.logging.FileHandler.formatter	java.util.logging.SimpleFormatter		
java.util.logging.ConsoleHandler.level	WARNING		
java.util.logging.ConsoleHandler.formatter	java.util.logging.SimpleFormatter		
com.ofss.fll.xws.level	FINER	set the logging level for the application	Other Level values -- FINEST,FINE,CONFIG and INFO

Dealer Track

Property Name	Property Value	Description	Remarks
Configuration File: dt_servlet_init.conf			
LOSAppli-cationRe-questServ-iceURL	http://<HOST NAME>:<PORT>/<CONTEXT ROOT>/LOSAppli-cationRequestSer-vice	URL for OFSLL New application web service	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://host-name:port/dbkls-xws-app-dt/LOSAppli-cationRe-questService
LOSAppli-cationUp-dateServi-ceURL	http://<HOST NAME>:<PORT>/<CONTEXT ROOT>/LOSAppli-cationUpdateSer-vice	URL for OFSLL applica-tion update web service	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://host-name:port/dbkls-xws-app-dt/LOSAppli-cationUp-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.	
Configuration File: dbkws_xae_init.conf			
lenderId	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 applica-tion source	Don't modify this value

Property Name	Property Value	Description	Remarks
dealerElement-Name	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
jndi-Lookup-DataSource	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 Signature	The keystore location should not be changed and keystore should be available in this location
keystore-Password	changeit	The keystore password	The default 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.
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			
lenderId	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
dealerElement-Name	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
fileDelimiter	,	Delimiter used in dealer header file	Needed only for RouteOne
jndi-Lookup-DataSource	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 Signature	The keystore location should not be changed and keystore should be available in this location
keystore-Password	changeit	The keystore password	The default 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 File: Logging.properties			
handlers	java.util.logging.FileHandler, java.util.logging.ConsoleHandler		
java.util.logging.FileHandler.level	ALL		

Property Name	Property Value	Description	Remarks
java.util.logging.FileHandler.pattern	/somewhere/logs/dbkls_xws_%g.log		
java.util.logging.FileHandler.limit	1000000		
java.util.logging.FileHandler.count	4		
java.util.logging.FileHandler.append	true		
java.util.logging.FileHandler.formatter	java.util.logging.SimpleFormatter		
java.util.logging.ConsoleHandler.level	WARNING		
java.util.logging.ConsoleHandler.formatter	java.util.logging.SimpleFormatter		
com.ofss.fll.xws.level	FINER	set the logging level for the application	Other Level values -- FINEST,FINE,CONFIG and INFO

EDOCS

Property Name	Property Value	Description	Remarks
Configuration File: ds_servlet_init.conf			
LOSeApplication-RequestServiceURL	http://<HOST NAME>:<PORT>/<CONTEXT ROOT>/LOSeApplicationRequestService	URL for OFSLL eDocs Create/update application web service	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://host-name:port/dbkls-xws-apps/LOSeApplicationRequestService
LOSAApplication-CommentUpdateServiceURL	http://<HOST NAME>:<PORT>/<CONTEXT ROOT>/LOSAApplicationCommentUpdateService	URL for OFSLL eDocs comment update web service	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://host-name:port/dbkls-xws-apps/LOSAApplicationCommentUpdateService
LOSAApplication-LocationUpdateServiceURL	http://<HOST NAME>:<PORT>/<CONTEXT ROOT>/LOSAApplicationLocationUpdateService	URL for OFSLL eDocs location update web service	Refer the recommended context root table for CONTEXT ROOT. Sample URL: http://host-name:port/dbkls-xws-apps/LOSAApplicationLocationUpdateService
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			
lenderId	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_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
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 public/private key store for HTTPS posting and for XML Digital Signature	The keystore location should not be changed and keystore should be available in this location
keystorePassword	changeit	The keystore password	The default 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			
lenderId	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_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
fileDelimiter	,	Delimiter used in dealer header file	
jndiLookupData-Source	jdbc/dbk105nIE-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 public/private key store for HTTPS posting and for XML Digital Signature	The keystore location should not be changed and keystore should be available in this location
keystorePassword	changeit	The keystore password	The default 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_routeone" else modify the property value to alias used while importing the private key into keystore.
sscroKeyPassword	demotestSSCR1	OFSLL's private key password	demotestSSCR1 is a sample value
Configuration File: Logging.properties			
handlers	java.util.logging.FileHandler, java.util.logging.ConsoleHandler		
java.util.logging.FileHandler.level	ALL		
java.util.logging.FileHandler.pattern	/somewhere/logs/dbkls_xws_%g.log		
java.util.logging.FileHandler.limit	1000000		
java.util.logging.FileHandler.count	4		
java.util.logging.FileHandler.append	true		
java.util.logging.FileHandler.formatter	java.util.logging.SimpleFormatter		

Property Name	Property Value	Description	Remarks
java.util.logging.ConsoleHandler.level	WARNING		
java.util.logging.ConsoleHandler.formatter	java.util.logging.SimpleFormatter		
com.ofss.fl.xws.level	FINER	set the logging level for the application	Other Level values -- FINEST,FINE,CONFIG and INFO

Webservices

Property Name	Property Value	Description	Remarks
Configuration File: dbkws_lookups_init.conf			
jndiLookupDataSource	jdbc/dbkwsDS	Parameter that defines the JNDI look up for the applicaton datasource	Don't modify the value
keystoreLocation	config/dls_cacerts	Parameter to set keystore location	The keystore location should not be changed and keystore should be available in this location
keystorePassword	changeit	The keystore password	The default password is "changeit". Modify the property in case the password is different for the keystore.
Configuration File: 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_LENDER_NAME	The finance source name used in the dealer file	SOME_LENDER_NAME is a sample value
dealerElementName	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
jndiLookupDataSource	jdbc/IN1HukWznG0b4esj	Parameter that defines the JNDI look up for the applicaton datasource	Don't modify the value

Property Name	Property Value	Description	Remarks
keystoreLocation	config/dls_cacerts	Parameter to set location for public/private key store for HTTPS posting and for XML Digital Signature	The keystore location should not be changed and keystore should be available in this location
keystorePassword	changeit	The keystore password	The default password is "changeit". Modify the property in case the password is different for the keystore.
sscroKeyAliases	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.
sscroKeyPassword	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 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_LENDER_NAME	The finance source name used in the dealer file	SOME_LENDER_NAME is a sample value
dealerElementName	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/dbk105nE-JBDS	Parameter that defines the JNDI look up for the applicaton datasource	
keystoreLocation	config/dls_cacerts	Parameter to set location for public/private key store for HTTPS posting and for XML Digital Signature	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.
sscroKeyAliases	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	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 applicaton datasource	Don't modify the value
keystoreLocation	config/dls_cacerts	Parameter to set location for public/private key store for HTTPS posting and for XML Digital Signature	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 File: Logging properties			
handlers	java.util.logging.File-Handler, java.util.logging.ConsoleHandler		
java.util.logging.File-Handler.level	ALL		
java.util.logging.File-Handler.pattern	/somewhere/ logs/dbkls_x- ws_%g.log		
java.util.logging.File-Handler.limit	1000000		
java.util.logging.File-Handler.count	4		
java.util.logging.File-Handler.append	true		
java.util.logging.File-Handler.formatter	java.util.logging.SimpleFormatter		
java.util.logging.Console-Handler.level	WARNING		
java.util.logging.Console-Handler.formatter	java.util.logging.SimpleFormatter		
com.ofss.flxws.level	FINER	set the logging level for the application	Other Level values -- FINEST,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 Web Services 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	OFSSL 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	OFSSL 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	OFSSL WEBSERVICE URL TO POST APPLICATION RESPONSE TO EDOCS
XWS_XPR_DLR_TRACK_RESP_PWD	DEALER TRACK DEALER LOAD PASSWORD
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	OFSSL 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	OFSSL 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_DLR_TRACK_LENDER_NAME	DEALERTRACK LENDER NAME
XWS_XAE_ROUTEONE_LENDER_NAME	ROUTEONE LENDER NAME