

WebLogic Server Integration Guide for OPSS  
Oracle FLEXCUBE Investor Servicing  
Release 14.4.0.0.0  
[July] [2020]



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# 1 WebLogic Server Integration Guide for Oracle Platform Security Services (OPSS)

## 1.1 Introduction

Oracle Platform Security Services (OPSS) is a security platform that secures applications deployed on any of the supported platforms or in standalone applications.

Java Authorization (JAZN) functionality includes the Credential Store Framework (CSF), the Common Audit Framework (CAF), Keystore Service, and other components, and combined with SSPI as Oracle Platform Security Services (OPSS).

A Credential Store is used for secure storage of credentials. The Credential Store Framework (CSF) API is used to access and perform operations on the credential store.

The Credential Store Framework:

- ✓ enables you to manage credentials securely
- ✓ provides an API for storage, retrieval, and maintenance of credentials in different back-end repositories
- ✓ supports file-based (Oracle wallet) and LDAP-based credential management

## 1.2 Prerequisite

- ✓ Oracle Fusion Middleware 12c Infrastructure / WebLogic Server
- ✓ OPSS Generic Installer - for WebLogic Server Installation

Note\*: OPSS Generic Installer will be part of Executable Library under OPSS Folder.

## 1.3 Create OPSS Schemas using RCU

- ✓ Run the repository creation utility under `<ORACLE_HOME>/oracle_common/bin`
- ✓ Choose the create Repository and System Load Option
- ✓ Provide the Database connection details (sys user and password)
- ✓ Under AS Common Schemas, select Oracle Platform Security Services and it will select the dependencies by its own.
- ✓ Follow up the remaining screens to complete the Schema Creation.

## 1.4 Oracle Fusion Middleware Infrastructure Configuration

- ✓ Map the OPSS Schemas created in above setup during WebLogic Infrastructure installation.
- ✓ Create a WebLogic Domain with **Basic WebLogic Server Domain [wlserver]**  
Note\*: Additional Component Selection is up to the Server Administrator's Choice.

## 1.5 OPSS Standalone Installation

Skip this step for WebLogic Infrastructure configuration.

- ✓ Set the **JAVA\_HOME** & **PATH** variables in the operating systems.
- ✓ Run the OPSS generic Installer.
- ✓ OPSS generic Installer is required separate Middleware Home  
Example: if WebLogic server has been installed under /scratch/Oracle/WLS then OPSS can be installed under /scratch/Oracle/OPSS

### 1.5.1 OPSS Standalone - Configure the Credential MAP and KEY

- ✓ Set the **JAVA\_HOME**, **ANT\_HOME**, **PATH** and **CLASSPATH** variable for **ant-contrib-1.0b3.jar** variables in the operating systems.  

```
export JAVA_HOME=/scratch/app/jdk1.8.0_xxx/  
export ANT_HOME=/scratch/app/apache-ant-x.xx.x/  
export CLASSPATH=$CLASSPATH:/scratch/app/ant-contrib-1.0b3.jar
```
- ✓ Refer the **<OPSS\_HOME>/oracle\_common/modules/oracle.jps/bin/README** file for further configuration  
Note: **<OPSS\_Instance\_Dir>** & **<OPSS\_HOME>** are the variables, Update it to respective folders.
- ✓ Run below command for creating OPSS Instance  

```
ant -f opss_instance.xml -Dplatform=wls -Dlocation=<OPSS_INSTANCE_DIR> -  
Dname=<INSTANCE_NAME>
```
- ✓ Create the **opss.properties** with below content  
domain=<INSTANCE\_NAME>  
admin=adminprefix\_OPSS  
password=dbpassword  
servertype=DB\_ORACLE  
jpsroot=cn=reassociatedb  
jdbcurl=jdbc:oracle:thin:@host:port/SID  
jdbcdriver=oracle.jdbc.driver.OracleDriver  
path=<OPSS\_INSTANCE\_DIR>/<INSTANCE\_NAME>/config/jps-config.xml  
migration=true  
command=setSecurityServices
- ✓ Run the **ant -f config\_store.xml** to reassociate security services to DB  

```
ant -f config_store.xml -Dprop.path=<PROPERTY_FILE_PATH>/opss.properties
```
- ✓ Copy **<OPSS\_HOME>/oracle\_common/modules/oracle.ovd/domain\_config/ovd** folder to **<OPSS\_Instance\_Dir>** created using opss\_instance.xml.
- ✓ For OPSS Standalone installation, update the startWebLogic.sh or startWebLogic.bat as below.  
Set the CLASSPATH variable like below  

```
CLASSPATH="<OPSS_HOME>/oracle_common/modules/oracle.jps/opss-wls-
```

*manifest.jar: \${CLASSPATH}"*

Just above the below line

*mypwd="\${pwd}"*

and replace *\${JAVA\_HOME}/bin/java \${JAVA\_VM} \${MEM\_ARGS}  
\${LAUNCH\_ARGS} -Dweblogic.Name=\${SERVER\_NAME}*

with *\${JAVA\_HOME}/bin/java \${JAVA\_VM} \${MEM\_ARGS} \${LAUNCH\_ARGS} -  
Doracle.security.jps.config=<OPSS\_Instance\_Dir>/config/jps-config.xml -  
Doracle.deployed.app.dir=\${DOMAIN\_HOME}/servers/\${SERVER\_NAME}/tmp/ -  
Doracle.deployed.app.ext=- -  
Dcommon.components.home=<OPSS\_HOME>/oracle\_common -  
Djrf.version=12.2.1 -Ddomain.home=\${DOMAIN\_HOME} -  
Dweblogic.Name=\${SERVER\_NAME}*

## 1.6 OPSS Credentials Setup for IS Installation

- ✓ Update the <OPSS\_Instance\_DIR> in `fcis_opss_cred_XXXXX.sh` and run the shell script in <OPSS\_HOME>/oracle\_common/modules/oracle.jps/bin  
Note : <OPSS\_Instance\_DIR> is <DOMAIN\_HOME>/config/fmwconfig/jps-config.xml for WebLogic Infrastructure.
- ✓ Goto Admin Console → Environment → Startup and Shutdown Classes → New → Startup Class
  - Name : **JpsStartupClass**
  - Class Name : **oracle.security.jps.wls.JpsWlsStartupClass**
- ✓ Click Next and then Select the Required Servers and Click on Finish
- ✓ Restart the servers[Admin, Managed servers]
- ✓ Deploy the FLEXCUBE IS Application in it.



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[July] [2020]  
Version 14.4.0.0.0

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