



ORACLE® HYPERION FINANCIAL CLOSE
MANAGEMENT

RELEASE 11.1.2

MANUAL CONFIGURATION

ORACLE®
ENTERPRISE PERFORMANCE
MANAGEMENT SYSTEM

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About Financial Close Management Manual Configuration

This document describes additional tasks required to configure Oracle Hyperion Financial Close Management. Perform these tasks after you install and configure Oracle SOA Suite and Financial Close Management. For information on installing and configuring Oracle SOA Suite and Financial Close Management, see the *Oracle Hyperion Enterprise Performance Management System Installation and Configuration Guide*, available on the [Oracle Documentation Library](http://www.oracle.com/technology/documentation/epm.html) (<http://www.oracle.com/technology/documentation/epm.html>) on Oracle® Technology Network.

Caution! You must perform these tasks before you can start and run Financial Close Management.

The following table describes Financial Close Management manual configuration tasks. The tasks are described in detail in the sections that follow.

Note: For the procedures that follow, note that if you selected Production Mode when you created the WebLogic domain, to make changes in the WebLogic Admin Server Console you must first click **Lock & Edit** in the Change Center. After you make the changes, click **Activate Changes** in the Change Center.

Table 1 Financial Close Management Postconfiguration Tasks

Task	Reference
Deploy the notification <code>.EAR</code> files to the SOA Server.	“Deploying Notification .EAR Files to the SOA Server” on page 3
Create Business Events datasources on the Financial Close Management Managed Server.	“Creating Business Events Data Sources on the Financial Close Management Managed Server ” on page 4
Target the Financial Close Management datasource to the SOA managed server.	“Targeting the Financial Close Management Datasource to the SOA Managed Server” on page 5
Configure the SOA managed server.	“Configuring the SOA Managed Server” on page 5
Install and configure <code>EPMIdentityAsserter</code> .	“Installing and Configuring EPMIdentityAsserter” on page 9
Configure the keystore for Oracle Web Services Manager.	“Configuring the Keystore for Oracle Web Services Manager” on page 12
Raise the maximum capacity in the connection pool.	“Raising the Maximum Capacity in the Connection Pool” on page 13
Modify the XA transaction timeout.	“Modifying the XA Transaction Timeout” on page 14
To receive e-mail notifications in a language different from the default language specified on the SOA server, perform additional steps.	“Specifying the Language for E-Mail Notifications” on page 14

Task	Reference
Create and manage Integration Types.	<i>Oracle Financial Close Management Administrator's Guide</i> . You can download integration <code>.xml</code> files from Oracle Technology Network.

Deploying Notification .EAR Files to the SOA Server

Perform this procedure to enable the SOA Server to communicate with the Financial Close Management Server, which is required for sending notification messages.

➤ To deploy the notification `.ear` files:

- 1 Log in to the WebLogic Admin Server Console from the machine on which Financial Close Management is installed: `http://WebLogic_Admin_Host:WebLogic_Admin_Port/console`.
- 2 Go to the Deployment page, and then click **Install**.
- 3 Select a notification `.ear` file from the Browse dialog box, and then click **Next**.

There are three notification `.ear` files:

- `FCCAlertNotification.ear`
- `FCCNotification.ear`
- `FCCTaskNotification.ear`

Oracle Hyperion Enterprise Performance Management System Installer, Fusion Edition installs the `.ear` files in `EPM_ORACLE_HOME/products/FinancialClose/AppServer/InstallableApps/common`.

- 4 Select **Install this deployment as an application**, and then click **Next**.
- 5 Select the target to **SOA Managed Server** (the default name is `soa_server1`) and then click **Next**.

The notification `.ear` files should not be targeted to any other managed servers besides `soa_server1`.

- 6 Under **Security**, leave the default selection. Under **Source Accessibility**, select **Copy this application onto every target for me**, and then click **Next**.
- 7 Click **Finish**.
- 8 Repeat these steps for the other two notification `.ear` files.

Tip: To make sure the notification `.ear` files are deployed properly, log in to the Admin Server Console (`http://WebLogic_Admin_Host:WebLogic_Admin_Port/console`), and click **Deployments** in the left pane. In the right pane, verify that the three notification applications (`FCCAlertNotification`, `FCCTaskNotification`, and `FCCNotification`), are deployed and are in an **Active** state. If they are not in an **Active** state, click the check box beside the `FCCXXXNotification` file name, select **Start**, and then select **Servicing all requests**.

Creating Business Events Data Sources on the Financial Close Management Managed Server

Perform this procedure to enable Financial Close Management to communicate with the SOA Server.

Caution! Be very careful to use the exact JNDI name. Do not get confused by the similar data source name that already exists and is targeted to the SOA server.

► To add the `EDNLocalTxSource` data source:

- 1 Log in to the WebLogic Admin Server console if you are not already logged in.
- 2 Select **Services**, then **JDBC**, then **DataSources**, and then **New**, enter the following information, and then click **Next**.
 - Name - `EDNLocalTxSource`
 - JNDI Name - `jdbc/EDNLocalTxSource`
 - Database Type - `Oracle`
 - Database Driver - `Oracle's Driver (Thin) for Service Connections`
- 3 Clear the **Supports Global Transactions** box and then click **Next**.
- 4 Enter the database details and then click **Next**.

Provide the database details of the `soa-infra` schema that is used for SOA Server.

Make sure to provide details for the `soa-infra` schema and not the `financialClose_datasource` schema.

- 5 Click **Test Configuration**, and after the database connection is tested and verified, click **Next**.
- 6 Select `FinancialClose Managed Server` (under **Clusters, All Servers in the Cluster**) as the target, and then click **Finish**.

► To add the `EDNSource` data source:

- 1 Log in to the WebLogic Admin Console, if you are not already logged in.
- 2 Select **Services**, then **JDBC**, then **DataSources**, and then **New**, enter the following information, and then click **Next**.
 - Name - `EDNSource`
 - JNDI Name - `jdbc/EDNSource`
 - Database Type - `Oracle`
 - Database Driver - `Oracle's Driver (Thin XA) for Service Connections`
- 3 Click **Next** on the **Transaction Options** page.
- 4 On the **JDBC Datasource Properties** panel, enter the database details and then click **Next**.

Provide the database details of the `soa-infra` schema that is used for Oracle SOA Suite Server.

- 5 Click **Test Configuration**, and after the database connection is tested and verified, click **Next**.
- 6 Select `FinancialClose Managed Server` (under **Clusters, All Servers in the Cluster**) as the target, and then click **Finish**.

Targeting the Financial Close Management Datasource to the SOA Managed Server

This procedure is required to access Financial Close Management data from the SOA Server, such as the notification messages that are stored in the Financial Close Management database.

- To target the `jdbc/financialclose_datasource` in SOA Server:
 - 1 Log in to the WebLogic Admin Server console if you are not already logged in.
 - 2 Go to **DataSources**, and then click `jdbc/financialclose_datasource`.
 - 3 Click the **Targets** tab and then select the SOA Managed Server from the Target list.
 - 4 Click **Save**.

Configuring the SOA Managed Server

Subtopics

- [Setting the Listener Address on the SOA Server](#)
- [Connecting Oracle Internet Directory \(OID\), Microsoft Active Directory \(MSAD\), or SunOne to the SOA Server](#)
- [Configuring the E-mail Driver](#)

Setting the Listener Address on the SOA Server

When you are configuring a new SOA Server, make sure you configure the listener address properly so that Financial Close Management can identify the SOA Server location by querying the admin server repository.

- To set the listener address on the SOA Server:
 - 1 Log in to the WebLogic Admin Server console if you are not already logged in.
 - 2 Set **Listen address** to the *hostname* of the SOA Server in two places:
 - Select **Environment**, then **Servers**, and then `soa_server1`.
 - Select **Environment**, then **Machines**, then **LocalMachine**, and then **Node Manager**.

Connecting Oracle Internet Directory (OID), Microsoft Active Directory (MSAD), or SunOne to the SOA Server

This procedure is required to configure the SOA Server to communicate with an external provider, such as OID, MSAD, or SunOne. Oracle's Hyperion® Shared Services must also be configured to work with this external provider. Follow the sections specific to your provider.

Note: Financial Close Management does not support Shared Services Native Directory. See the *Oracle Hyperion Enterprise Performance Management System User and Role Security Guide* for more information.

► To connect OID, MSAD, or SunOne to the SOA Server:

- 1 Log in to the WebLogic Admin Server console if you are not already logged in.
- 2 Click **Security Realms** on the left, click **myrealm**, and then click the **Providers** tab.
- 3 Click **Add**, enter the following details, and then click **OK**.

For OID:

- Name - **OID**
- Type - **OracleIntenetDirectoryAuthenticator**

For MSAD:

- Name - **MSAD**
- Type - **ActiveDirectoryAuthenticator**

For SunOne:

- Name - **SunOne**
- Type - **IPlanetAuthenticator**

You can ignore the prompt to restart the server; you will be restarting at the end of this procedure.

- 4 Click the provider you just added, click the **Provider Specific** tab, enter the following details for your provider, and then click **OK**.
 - Host
 - Port
 - Principal
 - Credential
 - User Base DB
 - Group Base DB
 - User from Name Filter (MSAD only)
 - User Name Attribute (MSAD only)

You can leave the rest of the default values unchanged.

- 5 Click **Reorder** to move **OID**, **MSAD**, or **SunOne** so that it is second in the list of providers (after **DefaultAuthenticator** and before **EPMIdentityAsserter**).
- 6 Click **OID**, **MSAD**, or **SunOne** and for **Control Flag**, select **SUFFICIENT**.
- 7 Stop WebLogic server.
- 8 Make a backup copy of *domain_name/config/fmwconfig/jps-config.xml*.
- 9 Open *domain_name/config/fmwconfig/jps-config.xml* in a text editor, and to the `<serviceInstances>` tag, add the following `<serviceInstance>` definition:

For OID (replace the italicized values with OID information):

```
<serviceInstance provider="idstore.ldap.provider" name="idstore.OID">
  <property value="yourSubscriberName" name="subscriber.name" />
  <property value="OID" name="idstore.type" />
  <property value="username:password" name="cleartext.ldap.credentials" />
  <property value="ldap://hostname:port" name="ldap.url" />
  <property value="uid" name="username.attr" />
  <extendedProperty>
    <name>user.search.bases</name>
    <values>
      <value>User Base DN</value>
    </values>
  </extendedProperty>
  <extendedProperty>
    <name>group.search.bases</name>
    <values>
      <value>Group Base DN</value>
    </values>
  </extendedProperty>
</serviceInstance>
```

For MSAD (replace the italicized values with MSAD information):

```
<serviceInstance provider="idstore.ldap.provider" name="idstore.AD">
  <property value="yourSubscriberName" name="subscriber.name" />
  <property value="ACTIVE_DIRECTORY" name="idstore.type" />
  <property value="username:password" name="cleartext.ldap.credentials" />
  <property value="ldap://hostname:port" name="ldap.url" />
  <property value="cn" name="username.attr" />
  <extendedProperty>
    <name>user.search.bases</name>
    <values>
      <value>User Base DN</value>
    </values>
  </extendedProperty>
  <extendedProperty>
    <name>group.search.bases</name>
    <values>
      <value>Group Base DN</value>
    </values>
  </extendedProperty>
</serviceInstance>
```

For SunOne (replace the italicized values with SunOne information):

```

<serviceInstance provider="idstore.ldap.provider" name="idstore.SUNONE">
<property value="yourSubscriberName" name="subscriber.name"/>
<property value="IPLANET" name="idstore.type"/>
<property value="username:password" name="cleartext.ldap.credentials"/>
<property value="ldap://hostname:port" name="ldap.url"/>
<property value="uid" name="username.attr"/>
<extendedProperty>
<name>user.search.bases</name>
<values>
<value>User Base DN</value>
</values>
</extendedProperty>
<extendedProperty>
<name>group.search.bases</name>
<values>
<value>Group Base DN</value>
</values>
</extendedProperty>
</serviceInstance>

```

Note that you must provide your password for `cleartext.ldap.credentials`.

10 Refer to the newly defined serviceInstance in the default jpsContext as shown in the following example:

For OID:

```

<jpsContext name="default">
  <serviceInstanceRef ref="credstore" />
  <serviceInstanceRef ref="keystore" />
  <serviceInstanceRef ref="policystore.xml" />
  <serviceInstanceRef ref="audit" />
  <serviceInstanceRef ref="idstore.OID" />
</jpsContext>

```

For MSAD:

```

<jpsContext name="default">
  <serviceInstanceRef ref="credstore" />
  <serviceInstanceRef ref="keystore" />
  <serviceInstanceRef ref="policystore.xml" />
  <serviceInstanceRef ref="audit" />
  <serviceInstanceRef ref="idstore.AD" />
</jpsContext>

```

For SunOne:

```

<jpsContext name="default">
<serviceInstanceRef ref="credstore" />
<serviceInstanceRef ref="keystore" />
<serviceInstanceRef ref="policystore.xml" />
<serviceInstanceRef ref="audit" />
<serviceInstanceRef ref="idstore.SUNONE" />
</jpsContext>

```

11 Restart WebLogic Server.

Configuring the E-mail Driver

► To configure the e-mail driver:

- 1 Go to Oracle Enterprise Manager for the SOA server: `http://WebLogic_Admin_Host:WebLogic_Admin_Port/em` and log in as user `weblogic`.
- 2 Expand the **User Messaging Service** folder, right-click `usermessagingdriver-email(soa_server1)`, and select **Email Driver Properties**.
- 3 Specify the following properties, and then click **Apply**.
 - **OutgoingMailServer** - enter the mail server name, for example: `myMailServer.myCompany.com`
 - **OutgoingMailServerPort** - specify the port for the mail server.
 - **OutgoingMailServerSecurity** - SSL is recommended.
 - **OutgoingUserName** - specify a valid e-mail address.
 - **OutgoingPassword - Type of Password** - select **Clear Text**.
 - **OutgoingPassword - Password** - specify the password for the **OutgoingUserName** you specified.
- 4 In the left panel, expand the **SOA** folder, right-click `soa-infra (soa-server1)`, click **SOA Administration**, and then select **Workflow Notification Properties**.
- 5 Specify the following properties, and then click **Apply**.
 - **Notification Mode** - select **ALL** or **EMAIL**.
 - **Email: From Address** - specify a valid e-mail address.
- 6 Restart the SOA Server.
- 7 Go to Oracle Enterprise Manager to test the human workflow notification settings:
 - a. Expand the **SOA** folder, right-click `soa-infra (soa_server1)`, select **Service Engines**, then **Human Workflow**, select the **Notification Management** tab, and then click **Send Test Notification**.
 - b. Enter a valid **SentTo** e-mail address, select **EMAIL** as the channel, enter a test message, and then click **Send**.
 - c. Verify that you received the e-mail message.

Installing and Configuring EPMSecurityAsserter

Subtopics

- [Adding EPMSecurityAsserter to the Security Providers](#)
- [Creating and Configuring a Security Role in WebLogic Server](#)

Financial Close Management uses Oracle WebLogic Server Container Security. To provide support for container security, you must install and configure the Custom WebLogic Identity

Asserter (`EPMIdentityAsserter`) in the Oracle WebLogic Server domain for Oracle Hyperion Enterprise Performance Management System.

Adding `EPMIdentityAsserter` to the Security Providers

Note: In a distributed environment, perform steps 2 - 4 on each machine in the EPM System deployment.

► To install and configure `EPMIdentityAsserter`:

- 1 Stop all managed servers (all the Web applications you deployed, including Oracle's Hyperion® Foundation Services, Financial Close Management, and any other managed servers in the domain).
- 2 Make a backup copy of `setDomainEnv.cmd`, which is in the WebLogic domain folder `domain_home/bin`. In a distributed environment, perform this step on each machine in the EPM System deployment.
- 3 Edit `setDomainEnv.cmd` to include the following entries. In a distributed environment, perform this step on each machine in the EPM System deployment.
 - a. Add the following entries after the `LONG_DOMAIN_HOME` environment variable. Insert a blank line between the existing section and the new content. Update the locations to point to the appropriate path on your machine:

```
set EPM_ORACLE_HOME=C:\Oracle\Middleware\EPMSystem11R1
set EPM_ORACLE_INSTANCE=C:\Oracle\Middleware\user_projects\epmsystem1
```

For example:

```
set LONG_DOMAIN_HOME=C:\Oracle\Middleware\EPMSystem11R1\..\user_projects\domains
\soa_domain
```

```
@insert new line here
```

```
set EPM_ORACLE_HOME=C:\Oracle\Middleware\EPMSystem11R1
```

```
set EPM_ORACLE_INSTANCE=C:\Oracle\Middleware\user_projects\epmsystem1
```

Tip: Make sure you insert a blank line before and after the text you add. Make sure there are no trailing spaces at the end of each line you add. Also include a blank line between the entries for `EPM_ORACLE_HOME` and `EPM_ORACLE_INSTANCE`.

- b. Add `epm.jar` to the `POST_CLASSPATH`. Add the following line after the last instance that sets `POST_CLASSPATH`:

```
set POST_CLASSPATH=%POST_CLASSPATH%;%EPM_ORACLE_HOME%\common\jlib\11.1.2.
0\epm.jar
```

For example:

```
if NOT "%EXT_POST_CLASSPATH%"==" " (
    if NOT "%POST_CLASSPATH%"==" " (
        set POST_CLASSPATH=%POST_CLASSPATH%;%EXT_POST_CLASSPATH%
    ) else (
        set POST_CLASSPATH=%EXT_POST_CLASSPATH%
```

```

)
)

@insert the new line here:
set POST_CLASSPATH=%POST_CLASSPATH%;%EPM_ORACLE_HOME%\common\jlib\11.1.2.
0\epm.jar

```

Tip: Make sure you insert a blank line before and after the text you add. Make sure there are no trailing spaces at the end of the new line you add.

c. Save and close the file.

- 4 **Copy** `EPMIdentityAsserter.jar` from `EPM_ORACLE_HOME/common/SharedServices/11.1.2.0/lib` to `MIDDLEWARE_HOME/wl_server10.3/server/lib/mbeantypes`. In a distributed environment, perform this step on each machine in the Oracle Hyperion Enterprise Performance Management System deployment.
- 5 **Restart** WebLogic Admin Server. Do not start any of the managed servers.
- 6 **Log in to the WebLogic Admin Console** (`http://WebLogic_Admin_Host:WebLogic_Admin_Port/console`) using WebLogic admin credentials.
- 7 In the **Domain Structure** portlet, click **Security Realms**.
- 8 From the available realms, click the realm name with **Default Realm** status `true`.

Tip: Click the realm name, not the check box.

- 9 **Click the Providers** tab to list all configured Authentication/Assertion providers.
- 10 **Click New** under **Authentication Providers**.
- 11 **Select** `EPMIdentityAsserter` from the list of supported Authentication/Assertion providers, then in the **Create a New Authentication Provider** panel, specify a name for the provider, such as `EPMIdentityAsserter`, and then click **OK**.

`EPMIdentityAsserter` is now listed in the list of configured providers.

- 12 **Reorder the list so that the providers are in the following order:**
 - `DefaultAuthenticator`
 - MSAD, OID, or SunOne, depending on which provider you are using
 - `EPMIdentityAsserter`

For example, to make `EPMIdentityAsserter` third in the Provider list, click **Reorder**, select `EPMIdentityAsserter` from the list of available providers, click the Up arrow until `EPMIdentityAsserter` is third from the top of the available providers list, and then click **OK**.

- 13 **Click** `DefaultAuthenticator`, and for **Control Flag**, select `SUFFICIENT`.
- 14 **Stop** WebLogic Admin Server.
- 15 **Start** WebLogic Admin Server.

Creating and Configuring a Security Role in WebLogic Server

- To create and configure the security role in WebLogic Server:
 - 1 **Log in to the WebLogic Admin Console** (http://WebLogic_Admin_Host:WebLogic_Admin_Port/console) using WebLogic admin credentials.
 - 2 In the **Domain Structure** portlet, click **Security Realms**.
 - 3 From the **Available Realms** list, select the realm name with **Default Realm** status `True`.
 - 4 Click the **Role and Policies** tab.
 - 5 From the **Available Role** list, expand **Global Roles**, click **Roles**, and then click **New**.
 - 6 Specify the name `valid_users` for the role, and then click **OK**.
The new role `valid_users` appears in list of Global Roles.
 - 7 Click the `valid_users` role name, and on the **Edit Global Role** panel, click **Add Conditions**.
 - 8 From the **Predicate List**, select **Allow access to everyone**, click **Finish**, and then click **Save**.

Tip: After you click **Save**, go back to make sure that the **Allow access to everyone** condition was set correctly.

Configuring the Keystore for Oracle Web Services Manager

You must set up the Keystore for message protection and configure the Credential Store Provider.

The Financial Close Management client and the Oracle Hyperion Financial Management, Fusion Edition Web service use the following policies:

- `wss11_saml_token_with_message_protection_client_policy`
- `wss11_saml_token_with_message_protection_service_policy`

- To configure Oracle Web Services security:
 - 1 Set up the items required by the policies noted above. For more information, see http://fmwdocs.us.oracle.com/doclibs/fmw/E10285_01/web.1111/b32511/setup_config.htm#BABJHIBI. In particular, refer to the section “SAML Message Protection Use Case.”
 - 2 Start each managed server in the following order:
 - WebLogic Admin Server
 - Oracle's Hyperion® Shared Services
 - Oracle HTTP Server
 - In any order:

- Financial Management Web Services Managed Server, if you're using Oracle Hyperion Financial Management, Fusion Edition with Financial Close Management.
- Oracle Hyperion Financial Data Quality Management, Fusion Edition Web application, if you're using FDM with Financial Close Management.
- Oracle Hyperion Financial Reporting, Fusion Edition Web application, if you're using Oracle Hyperion Financial Data Quality Management, Fusion Edition with Financial Close Management.
- Oracle SOA managed server
- Financial Close Management Web application - must be started last

Raising the Maximum Capacity in the Connection Pool

Fine tune the data source to size the connection pool.

➤ To raise the maximum capacity in the connection pool:

- 1 In the **WebLogic Admin Console** (http://WebLogic_Admin_Host:WebLogic_Admin_Port/console), select **Services**, then **JDBC**, and then **Datasources**.
- 2 Select your data source, then **Connection Pool**, and then **Maximum Capacity**.
- 3 Edit settings to increase capacity as follows:
 - EDNSource—150
 - EDNLocalTxSource—150
 - financialclose_datasource—150

If resource errors specific to these data sources are logged, increase their capacity:

- EDNDataSource
- EDNLocalTxDataSource
- mds-owsm
- mds-soa
- EPMSystemRegistry
- OraSDPMDDataSource
- SOADataSource
- SOALocalTxDataSource

Note: You can increase the capacity for each data source by a different amount, depending on the needs for your installation.

If the Oracle Hyperion Financial Close Management log includes this error message:
java.sql.SQLException: Could not retrieve datasource via JNDI url 'jdbc/
data source' weblogic.jdbc.extensions.PoolDisabledSQLException:
weblogic.common.resourcepool.ResourceDisabledException: Pool *data
source* is Suspended, cannot allocate resources to applications..], then you
have exceeded the maximum connections allowed in the connection pool for the specified data
source, and you need to increase the capacity of the connection pool.

Modifying the XA Transaction Timeout

You must modify the data source transaction timeout.

► To modify the XA transaction timeout:

- 1 In the **WebLogic Administration Console** ([http://
WebLogic_Admin_Host:WebLogic_Admin_Port/console](http://WebLogic_Admin_Host:WebLogic_Admin_Port/console)), select **Services**, then **JDBC**,
then **Datasources**, then **SOADatasource**, and then **Transaction**.
- 2 Specify the following:
 - Select **Set XA Transaction Timeout**.
 - Set **XA Transaction Timeout** to 0.

Specifying the Language for E-Mail Notifications

To receive e-mail notifications in a language different from the default language specified on the SOA server, specify the user's language preference in the identity store.

For example, with an LDAP-based identity store:

1. Connect to the identity store.
2. Navigate to the user entry.
3. Add or set the `preferredLanguage` attribute.

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Financial Close Management Manual Configuration, 11.1.2

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