

Oracle® Enterprise Performance Management System

**Tips and Tricks from EPM System Infrastructure Development: Issues 103
and Higher**

Release 11.1.2

EPM System Tips and Tricks from EPM System Infrastructure Development: Issues 103 and Higher, 11.1.2

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Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

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YouTube - <http://www.youtube.com/user/OracleEPMWebcasts>

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Is there any infrastructure-based training content available for EPM System Release 11.1.2.2?

Yes, infrastructure-based training content can be found in the [EPM/BI Whitepaper Library](#).

Training content includes documents for:

- Infrastructure and architectural changes
- Installation and configuration changes
- Lifecycle Management and security changes
- Managing EPM System using the Fusion Middleware Control
- Deployment troubleshooting process
- Deployment report
- Configuring OWSM

Are there any presentations available that list upcoming changes from the Infrastructure perspective for EPM System Release 11.2.2.2, for Oracle Consultants and Partners to use to get up to speed on major changes in the release?

Yes, you can find a presentation at <http://launch.oracle.com> (Access URL/Page Token: `epm_partners`). For infrastructure changes in Release 11.1.2.2, you can review the `EPM Infrastructure 11.1.2.2.pdf` document, and for a demo of the new Lifecycle Management user interface flow, you can review the interactive demo in `Migrating a Planning Application.zip`. These items are in the “EPM March Madness 2012” section. These presentations will be updated regularly with more information as we get closer to the release. Access to this information is limited to Oracle Partners and Employees.

In EPM System Release 11.1.2.2, where can I find the equivalent of the capacity planning diagrams that were available in the Release 11.1.2.1 *Installation Start Here?*

The new version of these diagrams is not yet available. You should continue to use the 11.1.2.1 version of these diagrams until the 11.1.2.2 updates are available. The Release 11.1.2.1 capacity planning diagrams are available at: http://docs.oracle.com/cd/E17236_01/epm.1112/epm_install_start_here_11121.pdf.

Do EPM System Release 11.1.2.1 products support Oracle Database RAC?

Yes, all EPM System products included in EPM System Installer support Oracle RAC failover with the exception of Performance Management Architect. Performance Management Architect can be configured to a RAC database, but upon database failover, Performance Management Architect services must be restarted manually.

The EPM System Certification Matrix for Release 11.1.2.x declares support for Microsoft SQL Server 2008. Are all SP levels supported?

Yes, in the EPM System Certification Matrix, whenever a particular SQL Server version is supported, unless otherwise mentioned, all SP Levels are supported. Note that SQL Server 2008 and SQL Server 2008 R2 are different releases.

In EPM System Release 11.1.1.4, the Certification Matrix does not show support for EPM System deployed on WebLogic on an AIX system. How can I proceed?

This was not supported because a WebLogic patch that wasn't yet available was needed to support EPM System Release 11.1.1.4. This patch is now available. Without this patch, if you install and configure EPM System (including Workspace) on WebLogic 9.2 MP4, you would get the following stack trace in the log file when trying to start Workspace:

```
weblogic.servlet.jsp.CompilationException: Failed to compile JSP /index.jsp
index.jsp:6:5: No tag library could be found with this URI. Possible causes
could be that the URI is incorrect, or that there were errors during parsing
of the .tld file.
<%@ taglib uri="/skintags" prefix="skin" %>
    ^-----^
```

index.jsp:6:5: No tag library could be found with this URI. Possible causes could be that the URI is incorrect, or that there were errors during parsing of the .tld file.

```
<%@ taglib uri="/skintags" prefix="skin" %>  
  ^----^
```

```
    at  
weblogic.servlet.jsp.JavelinxJSPStub.reportCompilationErrorIfNecessary(JavelinxJSPStub.  
java:226)  
    at  
weblogic.servlet.jsp.JavelinxJSPStub.compilePage(JavelinxJSPStub.java:162)  
    at weblogic.servlet.jsp.JspStub.prepareServlet(JspStub.java:246)  
    at weblogic.servlet.jsp.JspStub.prepareServlet(JspStub.java:191)  
    at  
weblogic.servlet.internal.ServletStubImpl.execute(ServletStubImpl.java:235)  
    Truncated. see log file for complete stacktrace
```

► To fix this problem:

- 1 Download and apply WebLogic patch 13916534 on any server that has WebLogic installed on it.
- 2 Restart Workspace.
- 3 Confirm that the Workspace startup log is clean of the stack trace error, and the managed server is in the RUNNING state.

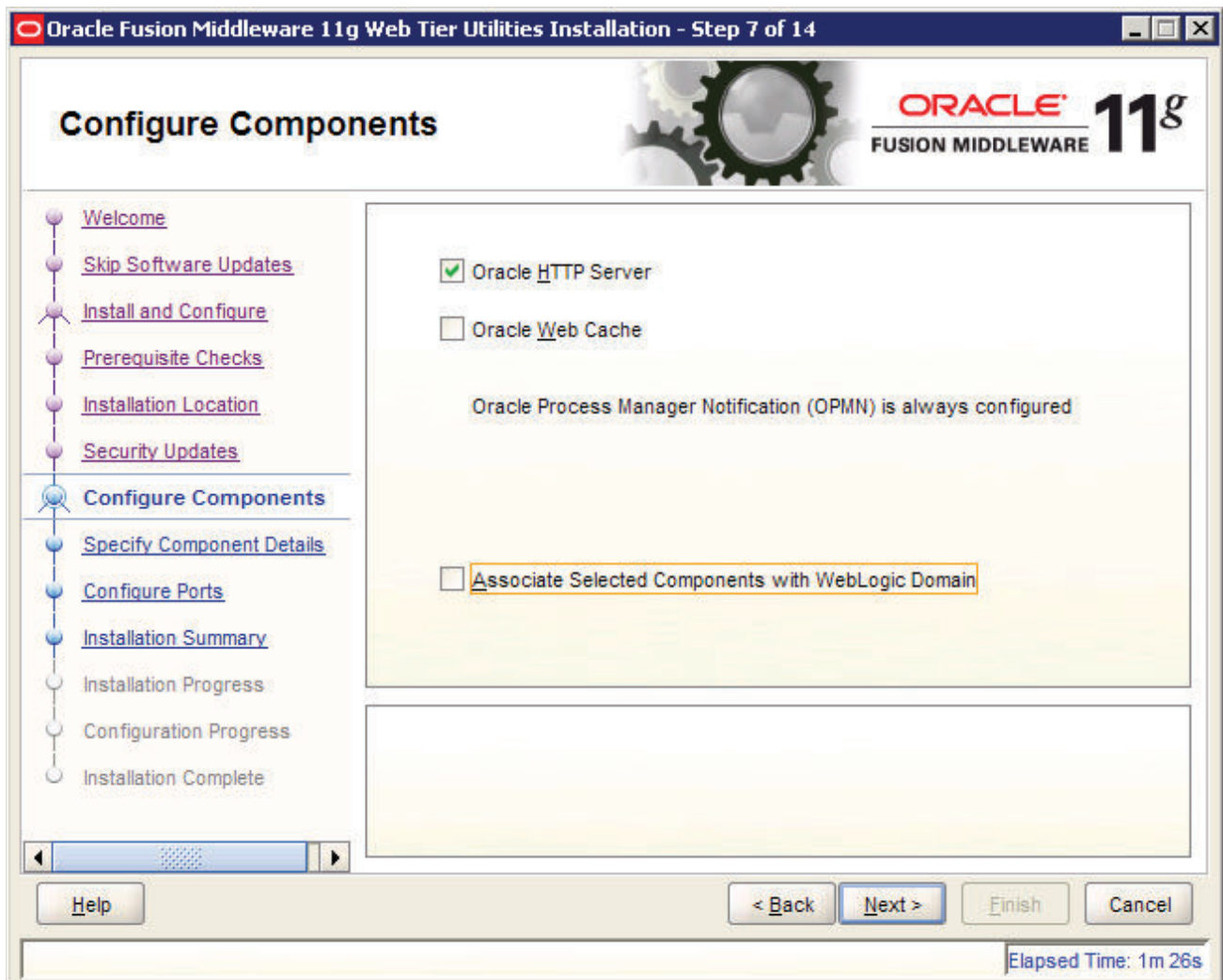
Are newer versions of Oracle HTTP Server (OHS) supported with EPM System Release 11.1.2.x?

Yes, newer versions of OHS are supported with Release 11.1.2.x, but you need to install the new OHS version into a separate Middleware home.

► To do this:

- 1 Shut down the running OHS.
- 2 Download and install the latest OHS.

OHS is part of the Web Tier download. Install only Oracle HTTP Server. Install only the software; do not configure.



If you chose `c:\OHS` as the Middleware Home, the `ORACLE_HOME` for OHS would be `c:\OHS\Oracle_WT1`. Use this value of `ORACLE_HOME` in the edits below.

3 Edit the following files to update the `ORACLE_HOME` value to point to the new `ORACLE_HOME` for OHS:

- `EPM_ORACLE_INSTANCE/httpConfig/ohs/config/OPMN/opmn/instance.properties`
- `EPM_ORACLE_INSTANCE/httpConfig/ohs/bin/opmnctl.bat`

4 For the Windows service, edit the following key in the Windows Registry using `regedit` and point the `opmn.exe` path to the `ORACLE_HOME` for the new OHS.

```
HKey_Local_Machine-> system-CurrentControlSet-> services->
OracleProcessManager_ohsInstance325650995 -> ImagePath
```

```
c:\OHS\Oracle_WT1\opmn\bin\opmn.exe -S -I
C:\Oracle\Middleware\user_projects\epmsystem1\httpConfig\ohs
```

5 Start OHS.

I am trying to use Windows Integrated Authentication to connect to the EPM System database. Is this supported?

No, in EPM System Release 11.1.2.0 and 11.1.2.1, this mode of authentication with Microsoft SQL Server is not supported.

Development Announcement: RedHat 6 is added to the EPM System Certification Matrix for Release 11.1.2.2.

This is reflected in the Certification Matrix located at <http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html>.

In EPM System Release 11.1.2.2, can the Microsoft Office version that is required on the FDM server be 64 bit, or does it have to be the 32 bit Office version?

FDM binaries are 32 bit and therefore, the Office version required on the FDM server must be 32 bit.

I have the latest EPM System 11.1.2.x Certification Matrix, and I am trying to see what the certifications are for older versions, such as 11.1.2.1. The matrix only shows the current version, 11.1.2.2. Where can I find the certifications for older versions of 11.1.2.x?

The Certification Matrix covers releases 11.1.2.0, 11.1.2.1, and 11.1.2.2. By default, the Certification Matrix is filtered to show 11.1.2.2. To view a different version, click the drop-down list in the Version Supported column and change the filter setting.

Is there any documentation on running Financial Management with virtualization technologies such as VMware?

A whitepaper has been published that explains the usage and benefits of virtualization technologies on a Financial Management deployment. This whitepaper is available here:

What is the statement of direction for Oracle Essbase Spreadsheet Add-in?

The Statement of Direction published as Doc ID 1466700.1 on My Oracle Support states that after January 1, 2013, Oracle Essbase Spreadsheet Add-in will no longer be available for general distribution with new releases of Oracle Essbase. Releases prior January 1, 2013 should be considered a terminal release for Essbase Spreadsheet Add-in and customers should make preparations to migrate to Oracle Hyperion Smart View for Office. Existing licensed customers of Oracle Essbase Spreadsheet Add-in will continue to be supported per the terms of their maintenance agreements with Oracle.

The last publicly available release of Java 6 was scheduled for February of 2013, but EPM System does not support Java 7. Is this an issue?

No. When Java SE is used in an Oracle product, it is treated as an integrated component in the product and follows the Premier Support lifecycle of the Middleware product as per the Oracle Lifetime Support Policy. This means you can continue running EPM System with Java 6 in full Premier Support during the regularly scheduled EPM System Support Lifecycle. You can view this policy in this MyOracle Support note:

[Java SE End of Life and Oracle Fusion Middleware Policy \[ID 952075.1\]](#)

Are EPMA-based applications supported with Planning and Profitability and Cost Management when they are deployed to Exalytics?

Yes, this is supported. EPMA-based applications that are deployed on Exalytics are supported for both Planning and Profitability and Cost Management. The EPMA components themselves need to be deployed to a Windows server outside the Exalytics server.

Development Announcement: All EPM System 11.1.2.2 and 11.1.2.3 components that are supported on the Linux platform have been certified on Oracle Exalytics In-Memory Machine.

The components supported on Exalytics include Planning, Public Sector Planning and Budgeting, Workforce Planning, Capital Asset Planning, Performance Scorecard, Profitability and Cost Management, Financial Close Management, Disclosure Management, ERP Integrator, Essbase, Financial Reporting, Interactive Reporting, Web Analysis, and SQR Production Reporting.

Note: Financial Reporting, Web Analysis, ERP Integrator, Account Reconciliation, Financial Close Management, Disclosure Management, and SOA are supported only on the Windows platform when used with Financial Management.

For specific details about individual components, please refer to the *System Requirements and Supported Platforms for Oracle Enterprise Performance Management System*, available on the [Oracle Fusion Middleware Supported System Configurations](#) page.

Which editions of Oracle Database are supported with EPM System products?

EPM System products support Standard and Enterprise editions of Oracle Database. The Express edition is not supported.

Does EPM System Release 11.1.2.2 support IBM WebSphere VE?

EPM System does not certify nor support a WebSphere release edition such as VE. Only WebSphere AS/ND solutions are supported. Refer to the Oracle EPM System Certification Matrix for more information.

In EPM System Release 11.1.2.x, can I use FDM and ERPI (FDMEE in 11.1.2.3) on UNIX integrated to Financial Management?

No, ERPI (renamed to FDMEE in 11.1.2.3) and FDM must be installed on Windows if they are intended to be used with Financial Management.

Is there any information on the certification of Oracle Advanced Security Transparent Data Encryption tablespace encryption with Hyperion Planning?

Yes, there is a whitepaper that summarizes the performance testing carried out for Planning Release 11.1.2.x using Oracle Database 11gR2 with Oracle Transparent Data Encryption:

[Oracle Hyperion Planning on the Oracle Database Appliance using Oracle Transparent Data Encryption](#)

There is also a Webinar on this subject, hosted by Tammy Bednar, Product Manager for the Oracle Database Appliance:

<http://www.oracle.com/partners/secure/engage-with-oracle/oracle-hyperion-test-1900684.html>

For more information about Transparent Data Encryption best practices, see this document:

[Oracle Advanced Security Transparent Data Encryption Best Practices](#)

Development Announcement: Support Policy Update for EPM System Release 11.1.2.x

The end of Premier Support has moved from April 2015 to April 2018, and the end of Extended Support has moved from April 2018 to April 2021. The new dates are publicly available in the [Lifetime Support Policy: Oracle Fusion Middleware Products](#).

This Lifetime Support Policy extension applies to the following products:

- Oracle Essbase 11.1.2.x
- Hyperion Capital Asset Planning 11.1.2.x
- Hyperion Data Relationship Management 11.1.2.x
- Hyperion Disclosure Management 11.1.2.x
- Hyperion Financial Close Analytics Dashboard 11.1.2.x
- Hyperion Financial Close Management 11.1.2.x
- Hyperion Financial Data Quality Management 11.1.2.x
- Hyperion Financial Management 11.1.2.x
- Hyperion Planning 11.1.2.x
- Hyperion Profitability and Cost Management 11.1.2.x
- Hyperion Public Sector Planning and Budgeting 11.1.2.x
- Hyperion Strategic Finance 11.1.2.x
- Hyperion Workforce Planning 11.1.2.x
- Hyperion Financial Data Management Enterprise Edition 11.1.2.x

- Hyperion Tax Provision 11.1.2.x
- Quantitative Management and Reporting for Solvency II 2.0.0.x
- Project Financial Planning 11.1.2.x
- Essbase Analytics Link 11.1.1.x
- Essbase Analytics Link 11.1.2.x

Hyperion Financial Reporting and Hyperion Web Analysis are supported according to the published Lifetime Support timelines for:

- Hyperion Financial Management when licensed with Hyperion Financial Management
- Hyperion Planning Plus when licensed with Hyperion Planning Plus
- Hyperion Profitability and Cost Management when licensed with Hyperion Profitability and Cost Management

2

Installation/Upgrade

In This Chapter

In EPM System Release 11.1.2.2, I am not able to launch the Shared Services login page and I see the error `Shared Services Product not found in Registry., ROOT CAUSE - com.hyperion.lcm.handler.LCMContext.loadProperties(135)]` in the `HyS9FoundationServices-syserr.log` file. How can I fix this issue?31

I have EPM System Release 11.1.1.3 or 11.1.1.4 and would like to use Oracle HTTP Server rather than Apache because it is more secure. Is this supported?31

How can I set up a Windows Service for the WebLogic Administration Server for the domain?33

In EPM System Release 11.1.2.1, running `validate.bat` has failed for Essbase server after changing the password for the admin account. What can I do to fix this?33

In EPM System Release 11.1.2.1, WebLogic was installed before I installed EPM System, and EPM System Installer detected WebLogic's existence and greyed out WebLogic installation in the installer feature panel. This resulted in there being no `EPMIdentityAsserter.jar` in the WebLogic folders, as required for Financial Close Management to work properly. How can I fix this?33

In EPM System Release 11.1.2.1, Financial Management database configuration fails with this error: `EPMCFG-10398 for successful completion of this task, the Oracle Database tnsnames.ora file must exist.` What is wrong?34

Is there a step-by-step document that I can use to install and configure a simple Financial Close Management development environment for EPM System Release 11.1.2.2?35

In EPM System Release 11.1.2.1, I used one user account to install EPM System software. EPM Systems Diagnostics worked fine until another user tried to run the same tool. Why doesn't this work?35

EPM System Release 11.1.2.2 and Oracle BI EE (OBIEE) Release 11.1.1.6 are both based on Fusion Middleware (FMW) Release 11.1.1.6. Can I install them into the same FMW Home?36

In EPM System Release 11.1.2.2, I installed Essbase Server and I did not get Oracle HTTP Server. Isn't Oracle HTTP Server required to support OPMN startup for Essbase?36

In EPM System Release 11.1.2.2, I installed Essbase Administration Server and did not get Hyperion Business Rules files. Did I do something wrong?36

In EPM System Release 11.1.2.2, I am not seeing as many client components. Are some clients no longer supported?36

Development Announcement: Some zip files posted on Oracle Technology Network (OTN) for EPM System Release 11.1.2.2 were incorrect and included pre-GA binaries.37

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This error happens because the Foundation Services Web application is not able to connect to the Shared Services database. The `EPMSystemRegistry` data source in WebLogic might be configured incorrectly.

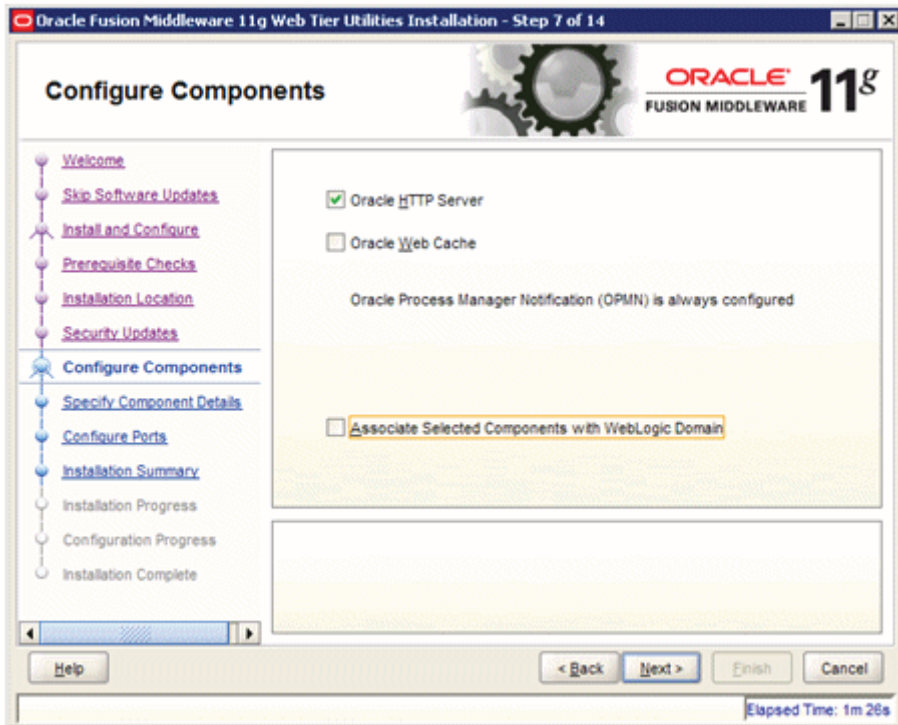
To configure the `EPMSystemRegistry` data source in WebLogic:

1. Start the WebLogic administration server and log in to the console as the `epm_admin` administrative user.
2. Under Data Sources, check the `EPMSystemRegistry` data source and correct the database information (database name, user ID, and password) for the Shared Services schema/database.
3. Save the changes and restart the Foundation Services Web application.

I have EPM System Release 11.1.1.3 or 11.1.1.4 and would like to use Oracle HTTP Server rather than Apache because it is more secure. Is this supported?

Yes, you can do this easily if you are already using WebLogic as your application server. If you are using Tomcat as your application server, for maximum security, we recommend that you move to WebLogic and use Oracle HTTP Server. Follow the instructions about Configuring the Web Server Routing in the *Manual Deployment Guide* to set up Oracle HTTP Server. You can also use the configuration files generated by EPM System Configurator for Apache to get up and running with Oracle HTTP Server.

When installing Oracle HTTP Server, install only the Oracle HTTP Server component. Select Auto Port configuration to set up the base configuration, and then modify the configuration later.



If you selected *middleware home* as `c:\OHS` and *instance name* as `instance1` during Oracle HTTP Server installation, your instance configuration would be in `C:\OHS\Oracle_WT1\instances\instance1`. This is referred to as `OHSINSTANCE` in the rest of the documentation.

1. Copy `HYPERION_HOME/common/httpservers/Apache/2.0.59/conf/HYSL-Weblogic.conf` to `OHSINSTANCE/config/OHS/ohs1`.
2. Edit `OHSINSTANCE/config/OHS/ohs1/httpd.conf` as follows:
 - a. Add the following to the end of the file:


```
include "${ORACLE_INSTANCE}/config/${COMPONENT_TYPE}/${COMPONENT_NAME}/HYSL-Weblogic.conf"
```
 - b. Copy the alias, proxy, proxyreverse statements from `HYPERION_HOME/common/httpservers/Apache/2.0.59/conf/httpd.conf` to the end.

A good rule is to copy all entries after the virtual hosts section in `httpd.conf`.
 - c. Update the listen port to 19000 (the default EPM System Web server listen port) or to a port you want to use.
3. Start and stop the Oracle HTTP Server service in Windows with the Oracle Process Manager (`instance1`).

How can I set up a Windows Service for the WebLogic Administration Server for the domain?

To set up the WebLogic Administration Server as a Windows Service, follow the instructions on [Setting up a WebLogic Server Instance as a Windows Service](#).

In EPM System Release 11.1.2.1, running `validate.bat` has failed for Essbase server after changing the password for the admin account. What can I do to fix this?

The admin user and password used for validation is kept in the Shared Services Registry. To correct this reporting error, issue two registry update commands:

```
<EPM_ORACLE_INSTANCE>/bin/epmsys_registry.sh updateproperty  
ESSBASE_SERVER/@userName <NEW_USERNAME>
```

```
<EPM_ORACLE_INSTANCE>/bin/epmsys_registry.sh updateencryptedproperty  
ESSBASE_SERVER/@password <NEW_PASSWORD>
```

In EPM System Release 11.1.2.1, WebLogic was installed before I installed EPM System, and EPM System Installer detected WebLogic's existence and greyed out WebLogic installation in the installer feature panel. This resulted in there being no `EPMIdentityAsserter.jar` in the WebLogic folders, as required for Financial close Management to work properly. How can I fix this?

The `EPMIdentityAsserter.jar` file is copied only when EPM System Installer installs WebLogic.

To workaround this issue:

- If EPM System has not been installed and configured yet:

After installation completes for EPM System, copy the `EPMIdentityAsserter.jar` file from:

```
<EPM_ORACLE_HOME>/common/SharedServices/11.1.2.0/lib
```

to:

```
wlserver_10.3/server/lib/mbeatypes
```

- If EPM System has already been installed and configured yet:
 1. After installation completes for EPM System, copy the `EPMIdentityAsserter.jar` file from:


```
<EPM_ORACLE_HOME>/common/SharedServices/11.1.2.0/lib
```

to:

```
wlserver_10.3/server/lib/mbeatypes
```
 2. Shut down all servers, and start only the Admin server.
 3. Log in to WebLogic admin console (`host:7001/console`).
 4. Navigate to the **Security Realms -> myrealm -> Providers** tab.
 5. Click **New**.
 6. Add a provider named “EPMIdentityAsserter”.
 7. Select the “EPMIdentityAsserter” from the list of providers and click **OK**.
 8. Reorder the providers to be in this order:
 - a. DefaultAuthenticator
 - b. MSAD 3
 - c. EPMIdentityAsserter
 - d. DefaultIdentityAsserter
 9. Restart the Admin server for changes to be reflected.

In EPM System Release 11.1.2.1, Financial Management database configuration fails with this error: **EPMCFG-10398** for successful completion of this task, the Oracle Database `tnsnames.ora` file must exist. What is wrong?

This error symptom indicates that EPM System Configurator has issues finding the `tnsnames` entry in `tnsnames.ora` needed for proper Financial Management configuration.

Two separate issues have been reported, and both relate to the Oracle 11.2 database client installation:

- Path reference to the `bin` folder

The logic that checks the `tnsnames.ora` location is case-sensitive and tries to parse the “bin” (in lowercase) folder in this path: `D:\Oracle\app\product\11.2.0\client_1\BIN\OraOLEDB11.dll`. However, the actual path contains “BIN” in uppercase and hence the configuration fails.

As a workaround, rename “BIN” to “bin”:

D:\Oracle\app\product\11.2.0\client_1\BIN

to:

D:\Oracle\app\product\11.2.0\client_1\bin

Then reconfigure the Financial Management database again.

- Registry key

Change the HKEY_CLASSES_ROOT\CLSID\{3F63C36E-51A3-11D2-BB7D-00C04FA30080}\InprocServer32 value data to use lowercase “bin” folder in the path; e.g., D:\Oracle\app\product\11.2.0\client_1\bin\OraOLEDB11.dll.

Is there a step-by-step document that I can use to install and configure a simple Financial Close Management development environment for EPM System Release 11.1.2.2?

Yes, if you need to build a simple development environment or just need to learn the Financial Close Management installation and configuration flow, you can follow the steps in the document titled [Rapid Deployment of Financial Close Management Domain for Development Environments](#). The entire installation process, including downloading zip files and installation of the Oracle database, takes approximately six hours.

In EPM System Release 11.1.2.1, I used one user account to install EPM System software. EPM Systems Diagnostics worked fine until another user tried to run the same tool. Why doesn't this work?

EPM System software is designed to be installed, configured, and diagnosed as one specific user. There are a number of limitations for running EPM System Diagnostics (and other tools) if you change users.

To work around the one-user restriction for EPM System Diagnostics in Release 11.1.2.1, copy the `oracle.instances` file from the profile for the user who installed the software to the new user.

EPM System Release 11.1.2.2 and Oracle BI EE (OBIEE) Release 11.1.1.6 are both based on Fusion Middleware (FMW) Release 11.1.1.6. Can I install them into the same FMW Home?

No, installing EPM System and OBIEE into the same FMW home is not supported. Future patch sets for EPM System and OBIEE will be released at different times, which would create constraints for the upgrades of a merged FMW Home.

In EPM System Release 11.1.2.2, I installed Essbase Server and I did not get Oracle HTTP Server. Isn't Oracle HTTP Server required to support OPMN startup for Essbase?

In Releases 11.1.2.0 and 11.1.2.1, Oracle HTTP Server was required to support OPMN startup for Essbase. In Release 11.1.2.2, however, EPM System Installer lays down OPMN files, separate from Oracle HTTP Server, that are sufficient to start Essbase.

In EPM System Release 11.1.2.2, I installed Essbase Administration Server and did not get Hyperion Business Rules files. Did I do something wrong?

No, Hyperion Business Rules is no longer supported in Release 11.1.2.2. Migration of old Hyperion Business Rules data is migrated during configuration. Calculation Manager replaces Hyperion Business Rules.

In EPM System Release 11.1.2.2, I am not seeing as many client components. Are some clients no longer supported?

No, a number of new MSIs were created for clients in Release 11.1.2.2 and were therefore removed from EPM System Installer.

The clients added in Release 11.2.2.2 and only available in MSI form are:

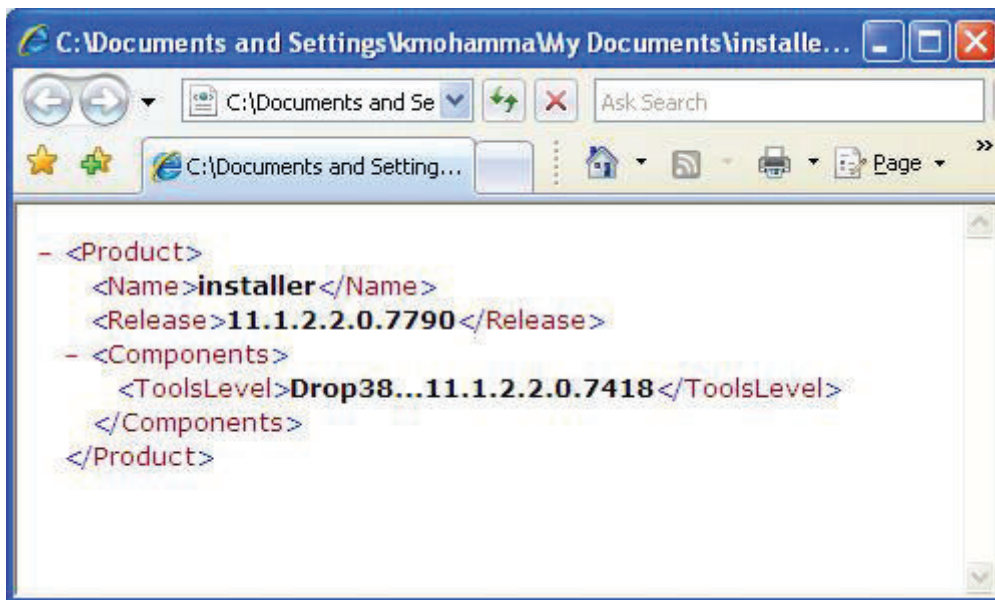
- Financial Management client
- Essbase Administration Services console
- Essbase Studio console

- Essbase client

Development Announcement: Some zip files posted on Oracle Technology Network (OTN) for EPM System Release 11.1.2.2 were incorrect and included pre-GA binaries.

There are no issues if you have downloaded this release from Oracle Software Delivery Cloud. If you downloaded from OTN prior to June 7, 2012, follow the steps below to ensure you have the proper binaries.

Open the `installer_version.xml` file at the root level where you unzipped the files. If the content does not match the content shown below, you need to reinstall the binaries.



- To reinstall the correct binaries:
 - 1 Download the required zip files from Oracle Software Delivery Cloud.
 - 2 Shut down all processes.
 - 3 Install the binaries over the existing Fusion Middleware Home.
 - 4 On each machine, for each managed server, delete `user_projects/domains/EPM*/servers/<server>/tmp`.
 - 5 Restart all processes.

In EPM System Release 11.1.2.2, what is the source of information for the deployment report?

The deployment report is created exclusively from the Shared Services Registry database. As a result, the report can be generated from any server in the deployment, and it does not require any of the EPM System services to be running.

To use the deployment report in Release 11.1.2.1, apply Patch 13530721. This patch includes most of the information in the Release 11.1.2.2 version.

In EPM System Release 11.1.2.2, is there a way to install only the Essbase 32-bit or 64-bit client on UNIX without installing the Essbase Server software?

No. The Essbase client on UNIX is now considered an embedded component only available when installing Essbase Server.

In EPM System Release 11.1.2.2 , when I deploy Planning to WebSphere on a 64-bit system, I get an error (`java.lang.UnsatisfiedLinkError`) when creating a data source. What could be wrong ?

The error is seen during a Financial Reporting to Planning connection. The software is trying to load a Planning shared library from the wrong location. The specific error is as follows:

```
java.lang.UnsatisfiedLinkError: C:\Oracle\Middleware\EPMSys11R1\common\ADM\Planning
\11.1.2.0\bin\HspEssbaseEnvAdm.dll (C:\Oracle\Middleware\EPMSys11R1\common\ADM
\Planning\11.1.2.0\bin\HspEssbaseEnvAdm.dll is not a valid Win32 application. )
    at java.lang.ClassLoader.loadLibraryWithPath(ClassLoader.java:1018)
    at java.lang.ClassLoader.loadLibraryWithClassLoader(ClassLoader.java:978)
    at java.lang.System.loadLibrary(System.java:469)
    at com.hyperion.planning.olap.HspEssbaseEnv.<clinit>(HspEssbaseEnv.java:26)
    at java.lang.J9VMInternals.initializeImpl(Native Method)
    at java.lang.J9VMInternals.initialize(J9VMInternals.java:200)
    at
com.hyperion.planning.olap.HspEssbaseJniOlap.<clinit>(HspEssbaseJniOlap.java:105)
    at java.lang.J9VMInternals.initializeImpl(Native Method)
    at java.lang.J9VMInternals.initialize(J9VMInternals.java:200)
```

To work around this issue:

1. Edit `EPM_ORACLE_HOME/common/jlib/11.1.2.0/epm_planning_adm.jar`.

It contains one file, `MANIFEST.jar`. Use a tool such as 7-zip that can edit a file in-place and save it back.

2. Modify the following entry:

Class-Path: ../../ADM/Planning/11.1.2.0/lib/hpadmcp.jar

to read as follows:

Class-Path: ../../ADM-64/Planning/11.1.2.0/lib/hpadmcp.jar

3. Restart the Financial Reporting and Planning applications.

In EPM System Release 11.1.2.2, I installed and configured Strategic Finance on a 32-bit system (Windows 2003 R2). The Strategic Finance Web Service shows a validation error. How can I resolve this problem?

PASSED	WEB: Libraries	Check if all shared libraries are targeted for application "HsfWeb0".	0 seconds
FAILED	WEBS: Web Service	Checking accessibility of Web services on http://blr2211577.idc.oracle.com:80/HSFWebServices/HSFWebService.asmx. Error: System.Web.Services.Protocols.SoapException: HSFWebService.CreateSession ---> System.Runtime.InteropServices.COMException (0x80040154): Retrieving the COM class factory for component with CLSID {41CE8E7D-2ADB-4A52-813B-7436FB046426} failed due to the following error: 80040154. at Hyperion.HSF.WebServices.GatewayWrapper.Gateway.CreateSession(String sessionId, String userName, String password, String token) at Hyperion.HSF.WebServices.HSFWebService.CreateSession(String userName, String password) --- End of inner exception stack trace --- at Hyperion.HSF.WebServices.HSFWebService.CreateSession(String userName, String password) Recommended Action: Check application accessibility manual.	0 seconds
PASSED	WEB: Web Application	Availability of Web application context http://blr2211577.idc.oracle.com:8900/StrategicPlanning/SmartView	0 seconds

To resolve this problem:

1. In *EPM_ORACLE_HOME*/products/hsf/scripts, re-execute the script register.bat.
2. Restart the Strategic Finance Web Service Java application.
3. Re-run Oracle Hyperion Enterprise Performance Management System Diagnostics.

In EPM System Release 11.1.2.2, when deploying Web applications using a compact deployment on an Exalytics machine (with 1 TB of memory), are manual steps required to make it work?

Yes. Out of the box, using EPM System Configurator to deploy the compact server, the compact server will not start because EPM System Configurator defines too large of a heap size. Generally, EPM System Configurator calculates a maximum heap size of ¼ of the system memory.

After deployment, follow these steps to start the compact server:

1. In *EPM_ORACLE_INSTANCE*/bin/deploymentScripts, in the setCustomParamsEPMServer.sh script for the compact server, edit the following JAVA_OPTIONS settings:

- Update `-Xmx` to: `-Xmx6000m`
 - Update `-XXcompressedRefs:size` to: `-XXcompressedRefs:size=64GB`
2. Start the compact server.

In EPM System Release 11.1.2.2, when installing Financial Data Quality Management Web application in a distributed environment, the Start menu for Web Configuration Manager is incomplete.

To fix the Start menu, do the following:

1. Right-click `WebConfigManager.exe`.
2. Select **Create Shortcut**, and direct the shortcut to a location under `EPM_ORACLE_HOME/products/FinancialDataQuality/WebServerComponents/WebConfigManager`.
Set the title of shortcut to be **Configure FDM Web Application**.
3. Set the target to `EPM_ORACLE_HOME/products/FinancialDataQuality/WebServerComponents/WebConfigManager/WebConfigManagerDM.exe`.

How do I find out whether my WebSphere installation is 32-bit or 64-bit?

To find this out, run the following script in `WAS_HOME/Plugins/bin`:

```
versionInfo.bat (.sh)
```

The output reports the version with the Architecture line.

In EPM System Release 11.1.2.2, does the WebSphere Administration Server need to be up or down during WebSphere manual configuration?

The WebSphere Administration Server can be either up or down during the deployment process.

In EPM System Release 11.1.2.2, when running the `runWASDeployment.bat [sh]` script, I am prompted for an admin user and password. Does this need to match anything I previously entered during configuration?

No. This is a new user and password that needs to be created while running the script. It is used for logging into the Integrated Solutions Console for the newly created profile.

In EPM System Release 11.1.2.2, how do I know what port to use to access the WebSphere Administration Console?

The default port is 9043, but it may be different if multiple profiles were created; for example, with several attempts to configure WebSphere.

To find out what port to use:

1. View the `WC_adminhost_secure` property in `WAS_HOME/profiles/DM_PROFILE_NAME/properties/portdef.props`.
2. Execute the following in your browser:
`https://localhost:<port>/ibm/console/login.do?action=secure`

In EPM System Release 11.1.2.2, the WebSphere Integrated Solutions Console is not available when I enter the URL. What should I do?

Do the following:

1. Ensure that you started the following scripts:
`WAS_HOME/profiles/DM_PROFILE_NAME/bin/startManager.bat [sh]`
`WAS_HOME/profiles/PROFILE_NAME/bin/startNode.bat [sh]`
2. Check your port settings in `WAS_HOME/profiles/DM_PROFILE_NAME/properties/portdef.props` and review the `WC_adminhost_secure` property.
3. In Internet Explorer, if you see the message "There is a problem with this website's security certificate", select **Continue to this website (not recommended)**.
4. In Firefox, if you see the message "This Connection is Untrusted", select **I Understand the Risks**, then **Add Exception**, and then **Confirm Security Exception**.

In EPM System Release 11.1.2.2, I have deployed to WebSphere. How I can start, stop, or restart my server?

Do one of the following:

- Log in to the Integrated Solutions Console and select **Servers**, then **Server Types**, and then **WebSphere application servers**. Select the **Server** check box, and then click the **Start**, **Stop**, or **Restart** button.
- Execute the following script:

```
WAS_HOME/profiles/PROFILE_NAME/bin/start [stop] Server.bat [sh]  
SERVER_NAME
```

In EPM System Release 11.1.2.2, I deployed to WebSphere, and I need to restart my application. How can I do it?

Do one of the following:

- Log in to the Integrated Solutions Console and select **Applications**, then **Application Types**, and then **WebSphere enterprise applications**. Select your Web application and click **Stop**; then, select your Web application again and click **Start**.
- Execute the following script:

```
WAS_HOME/profiles/PROFILE_NAME/bin/start [stop] Server.bat [sh]  
SERVER_NAME
```

In EPM System Release 11.1.2.2., I deployed to WebSphere, and I need to update my EAR file. Can I replace it on the file system, or do I need to redeploy the Web application?

WebSphere does not do no-staged deployments like WebLogic. In addition, WebSphere does not support automatic updates. As a result, you must redeploy or update your application through the Integrated Solutions Console.

In EPM System Release 11.1.2.2, I deployed to WebSphere and I need to redeploy my application. How can I do it?

Do the following:

1. Log in to the Integrated Solutions Console and select **Applications**, then **Application Types**, and then **WebSphere enterprise applications**.
2. Select your Web application and click **Update**.
It is recommended to stop the application first.
3. Insert the path to your new EAR file.
4. Expand the **System Administration** section and then click **Nodes**.
5. Select the nodes to synchronize, and then click **Synchronize** or **Full Resynchronize**.

In EPM System Release 11.1.2.2, I deployed to WebSphere. How do I remove the profile?

Do the following:

1. Stop all application servers.
2. Stop the Deployment Manager and Node Agent.
3. Run the following commands:
 - `WAS_HOME/bin/manageprofiles.bat [sh] -delete -profileName EPMSystemDMPProfile`
 - `WAS_HOME/bin/manageprofiles.bat [sh] -delete -profileName EPMSystemProfile`
 - `WAS_HOME/bin/manageprofiles.bat [sh] -validateAndUpdateRegistry`
4. Issue operating system commands to delete the profile directory.
5. Remove the profile from the file system.

In EPM System Release 11.1.2.X, what is the recommended firewall timeout setting for idle connections?

Firewalls are often configured to terminate idle connections. This improves security as well resource utilizations. Firewall settings for connections between EPM System servers should be configured to be a minimum of 6 hours. This setting is required because some connections stay idle during long-running operations.

In EPM System Release 11.1.2.2, what privileges need to be granted for Oracle database schemas?

The following privileges need to be granted to owners of the database schemas:

- CREATE SESSION
- CREATE VIEW
- CREATE TYPE
- CREATE TABLE
- CREATE CLUSTER
- CREATE TRIGGER
- CREATE SEQUENCE
- CREATE INDEXTYPE
- CREATE PROCEDURE
- UNLIMITED TABLESPACE

This information will be corrected in the August 2012 documentation update.

Is it possible to change operating systems when doing an out-of-place upgrade from Release 11.1.1.x to Release 11.1.2.x?

Not directly. An out-of-place upgrade is supported when the source and target operating systems are the same. For example, if the earlier release is on a Windows operating system, then you must upgrade to a Windows operating system. If the earlier release is on a Linux operating system, then you must upgrade to a Linux operating system. Within the operating system constraint, you can switch between versions of the operating system as well as 32 bit / 64 bit variations. For example, you can upgrade from 32 bit Windows 2003 to 64 bit Windows 2008R2.

To move from one operating system to another during the upgrade cycle, you must first upgrade to a staging machine with the same operating system and then use Lifecycle Management to do a full application migration to the target operating system.

Is there a step-by-step document that I can use to install and configure Financial Close Management for EPM System Release 11.1.2.2?

Yes. If you need to build a simple development environment or just need to learn the Financial Close Management installation and configuration flow, you can follow the steps in the document titled “Financial Close Management Rapid Deployment for Release 11.1.2.2” located in the [EPM Whitepaper Library](#). The process is also documented in the [Installation and Configuration Guide](#).

In addition, there is an Oracle By Example (OBE) that is similar but also includes steps for SQL Server and Oracle HTTP Server-based deployments located at the [Oracle Learning Library](#). To locate this OBE:

1. Select **Fusion Middleware**.
2. On the **Advanced Search** screen, for **Product Family**, select **Fusion Middleware**.
3. For **Product**, select **Enterprise Performance Management**.
4. For **Sub Product**, select **Financial Close Management**.
5. Click **Query**.

You can also refer to the OBE that provides step-by-step instructions for installing and configuring Financial Close Management for a multi-node deployment.

Is there a document that describes the steps to rehost an Essbase server from one server to another?

Yes, a document titled “Essbase Rehosting for Release 11.1.2.2” is published in the [EPM Whitepaper Library](#).

I did a maintenance installation from Release 11.1.2.1 to Release 11.1.2.2 on a UNIX platform and deployed Web applications as non-compact. I then reconfigured with the steps for "Maintenance Installation Deployments to a Single Managed Server" described in the "Deploying EPM System Web Applications to a Single Managed Server" section of the *Installation and Configuration Guide*, but the "Deploy the web applications to a single managed server" option is still disabled in EPM System Configurator. What should I do?

This problem occurs because Financial Management Web services are not supported on UNIX platforms in Release 11.1.2.2. If you are performing a maintenance installation on UNIX and you had Financial Management deployed on this platform in the prior release, you must uninstall the Financial Management Web Service from the UNIX machine. Then, you can proceed to performance a maintenance installation on the UNIX platform, and then perform the deployment to a single managed server. Again, this is a change in supported platforms for a component and hence why the extra steps are required for a successful maintenance installation. The problem occurs whether or not you have deployed to a single managed server.

After the UNIX deployment is complete, go to the Windows machine where you have other Financial Management components, and install NEW the Financial Management Web services and configure it.

In EPM System Release 11.1.2.2, when deploying Planning to WebSphere on a 64-bit system, I get an error (`java.lang.UnsatisfiedLinkError`) when creating a data source. What could be wrong?

This error is displayed during a Financial Reporting-to-Planning connection when EPM System attempts to load a Planning shared library from the wrong location. The specific error is as follows:

```
java.lang.UnsatisfiedLinkError: C:\Oracle\Middleware\EPMSys11R1\common\ADM\Planning\11.1.2.0\bin\HspEssbaseEnvAdm.dll (C:\Oracle\Middleware\EPMSys11R1\common\ADM\Planning\11.1.2.0\bin\HspEssbaseEnvAdm.dll is not a valid Win32 application. )
    at java.lang.ClassLoader.loadLibraryWithPath(ClassLoader.java:1018)
    at java.lang.ClassLoader.loadLibraryWithClassLoader(ClassLoader.java:978)
    at java.lang.System.loadLibrary(System.java:469)
    at com.hyperion.planning.olap.HspEssbaseEnv.<clinit>(HspEssbaseEnv.java:26)
    at java.lang.J9VMInternals.initializeImpl(Native Method)
    at java.lang.J9VMInternals.initialize(J9VMInternals.java:200)
    at
com.hyperion.planning.olap.HspEssbaseJniOlap.<clinit>(HspEssbaseJniOlap.java:105)
    at java.lang.J9VMInternals.initializeImpl(Native Method)
    at java.lang.J9VMInternals.initialize(J9VMInternals.java:200)
```

To work around this issue:

1. Edit the `MANIFEST.jar` file in `EPM_ORACLE_HOME/common/jlib/11.1.2.0/epm_planning_adm.jar`.

Use a zip utility such as 7-Zip that allows you to edit a file in place and then save it back.

2. Alter the following entry in `MANIFEST.jar`:

```
Class-Path: ../../ADM/Planning/11.1.2.0/lib/hpadmcp.jar
```

to read as follows:

```
Class-Path: ../../ADM-64/Planning/11.1.2.0/lib/hpadmcp.jar
```

3. Restart Financial Reporting and Planning.

In EPM System Release 11.1.2.2, I installed Essbase Server in order to get the Essbase client on UNIX. Is there a way to install only the Essbase 32-bit or 64-bit client on UNIX without installing the Essbase Server software?

No. The Essbase client on UNIX is now considered an embedded component only available when installing Essbase Server.

If space is an issue, you can delete excess software after the installation is complete. On a 64-bit system, potential items to delete are:

- Products/Essbase/EssbaseClient-32
- Products/Essbase/EssbaseServer-32
- Products/Essbase/EssbaseServer

Deleting these items leaves only the 64-bit client. If you want only the 32-bit client to remain, then delete the following:

- Products/Essbase/EssbaseClient
- Products/Essbase/EssbaseServer-32
- Products/Essbase/EssbaseServer

When configuring EPM System Release 11.1.2.2, I get the following warning message in EPM System Configurator after selecting the previously created domain, `epmsystem1`. What does this message mean?



The host identified in the warning message is the database server where the product repositories are stored.

EPM System Configurator tests whether this address is reachable. A best effort is made to reach the host, but firewalls and server configuration may block requests, resulting in an unreachable

status even though some specific ports may be accessible. The Java call typically uses an ICMP ECHO REQUEST if the privilege can be obtained; otherwise, it will try to establish a TCP connection on port 7 (Echo) of the destination host.

You can ignore the warning and continue, or you can open up port 7 and the warning will no longer be displayed.

In EPM System Release 11.1.2.2, after installing and configuring Strategic Finance on a 32-bit system (Windows 2003 R2), the Strategic Finance Web service shows the following validation error. What is the problem?

PASSED	WEB: Libraries	Check if all shared libraries are targeted for application "HsfWeb0".	0 seco
FAILED	WEBS: Web Service	<p>Checking accessibility of Web services on http://blr2211577.idc.oracle.com:80/HSFWebServices/HSFWebService.asmx.</p> <p>Error: System.Web.Services.Protocols.SoapException: HSFWebService.CreateSession ---> System.Runtime.InteropServices.COMException (0x80040154): Retrieving the COM class factory for component with CLSID {41CE8E7D-2ADB-4A52-813B-7436FB046426} failed due to the following error: 80040154. at Hyperion.HSF.WebServices.GatewayWrapper.Gateway.CreateSession(String sessionId, String userName, String password, String token) at Hyperion.HSF.WebServices.HSFWebService.CreateSession(String userName, String password) --- End of inner exception stack trace --- at Hyperion.HSF.WebServices.HSFWebService.CreateSession(String userName, String password)</p> <p>Recommended Action: Check application accessibility manual.</p>	0 seco
PASSED	WEB: Web Application	Availability of Web application context http://blr2211577.idc.oracle.com:8900/StrategicPlanning/SmartView	0 seco

The problem is that some of the Strategic Finance DLLs didn't get registered as they should have during the installation and configuration process.

To resolve this problem:

1. In `EPM_ORACLE_HOME/products/hsf/scripts`, re-execute the `register.bat` script.
2. Restart the Strategic Finance Web service Java application.
3. Rerun EPM System Diagnostics.

In EPM System Release 11.1.2.2, I tried to install EPM System on a machine with a lot of free disk space, but the WebLogic portion of the installation failed. I checked the *MIDDLEWARE_HOME*/EPMSys_{tem}11R1/diagnostics/logs/install/wl_install.log file, but it says "Insufficient disk space". What would cause this, and can I work around it?

When WebLogic Server is selected for installation, EPM System Installer invokes the WebLogic installer to perform a non-interactive installation of WebLogic Server. On machines with very large amounts of free disk space, the WebLogic installer may incorrectly determine the space available for installation.

A log of the WebLogic installer's actions is written to *MIDDLEWARE_HOME*/EPMSys_{tem}11R1/diagnostics/logs/install/wl_install.log. If this file has a message similar to the one shown below, then the incorrect disk space calculation is the likely cause of the problem. (Note that file sizes and paths may vary from those shown in the example below.)

```
ERROR [productDir] com.bea.plateng.wizard.installer.silent.tasks.ProductDirTask -
Insufficient disk space! The installer requires:
223MB for the BEA Home at /scratch/myuser/Oracle/Middleware/EPMSystem11R1/...,
458MB for the product at /scratch/myuser/Oracle/Middleware/EPMSystem11R1/./utils/
uninstall/WebLogic_Platform_10.3.6.0,/scratch/myuser/Oracle/Middleware/EPMSystem11R1/./
wlserver_10.3 and 1087MB temporary work space at /var/tmp/bea8705546853021759792.tmp.
There is only 0MB available at /scratch.
```

Another symptom may be that the installation takes an excessively long time (over an hour, even on a very fast machine with only a few products being installed).

To work around this issue:

1. Edit *MIDDLEWARE_HOME*/EPMSys_{tem}11R1/tmp/wl_stage/wl10_install.sh.
2. Find the line that starts with:

```
/scratch/myuser/Oracle/Middleware/EPMSystem11R1/./jdk160_29/bin/
java $TMP_ARGS -Duser.language=en_US -Xms512m -Xmx1024m ...
```

3. Add the argument `-Dspace.detection=false` so that the line starts like this:

```
/scratch/myuser/Oracle/Middleware/EPMSystem11R1/./jdk160_29/bin/
java $TMP_ARGS -Duser.language=en_US -Dspace.detection=false -
Xms512m -Xmx1024m ...
```

Note that *MIDDLEWARE_HOME* may be different than what is shown above.

4. Execute the `wl10_install.sh` script.

The script echoes some lines to the console, but there should be no error messages. The last line in the `wl_install.log` file in `MIDDLEWARE_HOME/EPMSys11R1/diagnostics/logs/install/` should now say that the installation was successful.

At this point, WebLogic Server is installed, and you can proceed with the configuration of EPM System.

In EPM System Releases 11.1.2.1, and 11.1.2.2, when installing Essbase Studio services by themselves, the `EPM_ORACLE_HOME/common/essbaseJavaAPI` folder is missing. What is wrong?

To resolve this issue, install any one of the following components on the same box as Essbase Studio:

- Performance Management Architect Web
- Calculation Manager
- Essbase Administration Services
- Essbase Server
- FDM
- Financial Reporting
- Performance Scorecard
- Planning
- Profitability
- Provider Services
- Shared Services
- Web Analysis

I see that there is a new Web server type in Release 11.1.2.2 called WebLogic Embedded Server. What is it and how does it work?

Release 11.1.2.2 offers a not-for-production Web server solution that utilizes WebLogic as a proxy server. Two additional applications are deployed in the same JVM as Workspace/Shared Services to support this functionality.

Weblogic Server (PROXY) is installed *only* with the Foundation part of Shared Services. The installation location is `EPM_ORACLE_HOME/products/Foundation/InstallableApps/proxyServletFeature/proxyservlet`.

PROXY is deployed with a no-stage option from `EPM_ORACLE_HOME/products/Foundation/InstallableApps/proxyServletFeature/proxyservlet`. It is an exploded .war file. This means the default port is 28080 (or 9000 if the compact server is in use with Foundation Services in it).

When you configure this Web server, the Shared Services Registry gets a WEB_SERVER node typed as PROXY. After PROXY is configured, you will get updated an `web.xml` file in `EPM_ORACLE_HOME/products/Foundation/InstallableApps/proxyServletFeature/proxyservlet/WEB-INF`. This servlet contains two types of servlets: one for the J2EE application and another for IIS applications.

The `hit-redirector.jar` filter is used by PROXY to redirect requests for online help or other Web applications. This filter and the `rewrite_rules.xml` file lay under `EPM_ORACLE_HOME/common/HitRedirectFilter`.

In EPM System Release 11.1.2.2, I configured all the products to a registry database schema, but now I want to separate the tables of different products to separate database schemas. Is this supported, and if so, how can I do it?

Yes, this is supported. To do this:

1. Stop all processes running on the Foundation machine (where the admin server is running) and on any machines with products for which you are moving databases.
2. Use standard vendor mechanisms to extract the database tables for each product you want to move.

For example, with an Oracle database, use the Export Utility.

Extract the tables for your product using the patterns in this table:

Table 1 Tables for Products

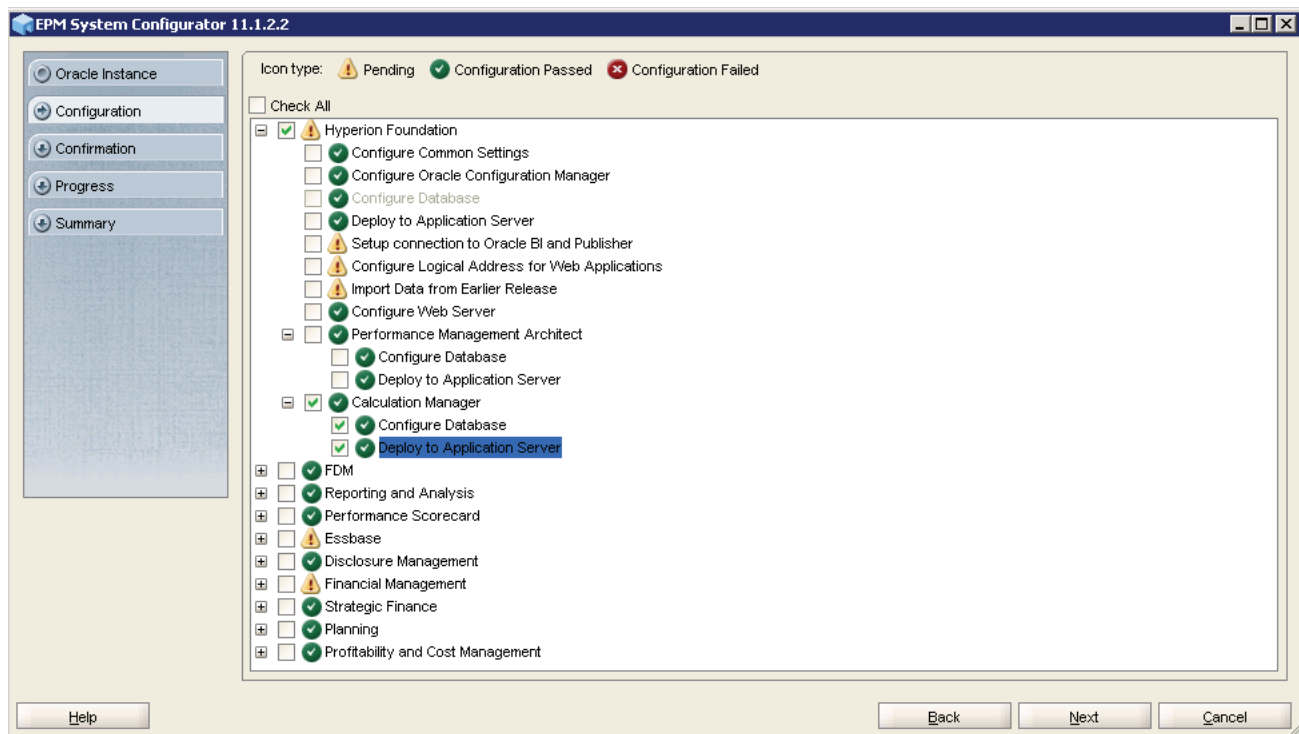
Products	Prefixes
Account Reconciliation Management	ARM%
AIF	AIF%
Calculation Manger	CALC%
Disclosure Management	DISCMAN%
Enterprise Performance Management Architect	DS%, JM%, OR%, SM% and a single table named PRODUCT
Essbase Server	ESS%
Financial Close Management	FCC%, S_ROW_ID%

Products	Prefixes
Financial Management	HFM%, HSV%, LINSRIPT%
Financial Reporting	FR%
Performance Scorecard	HPS%
Planning	HSPSYS%, HSP% for applications
Profitability	HPM%
Reporting and Analysis Framework	V8% + ANNOT% for annotations, BRIOSECG%, BRIOSECP%, BRIOSECR%
Shared Services	CSS%, CES%, QRTZ%, LCM%, HSS%, SMA%, HDB%
WebAnalysis	ATF%, HYA%, OJB%
Workspace	WKS%

- Use standard vendor mechanisms to import the tables to each new separate product database.

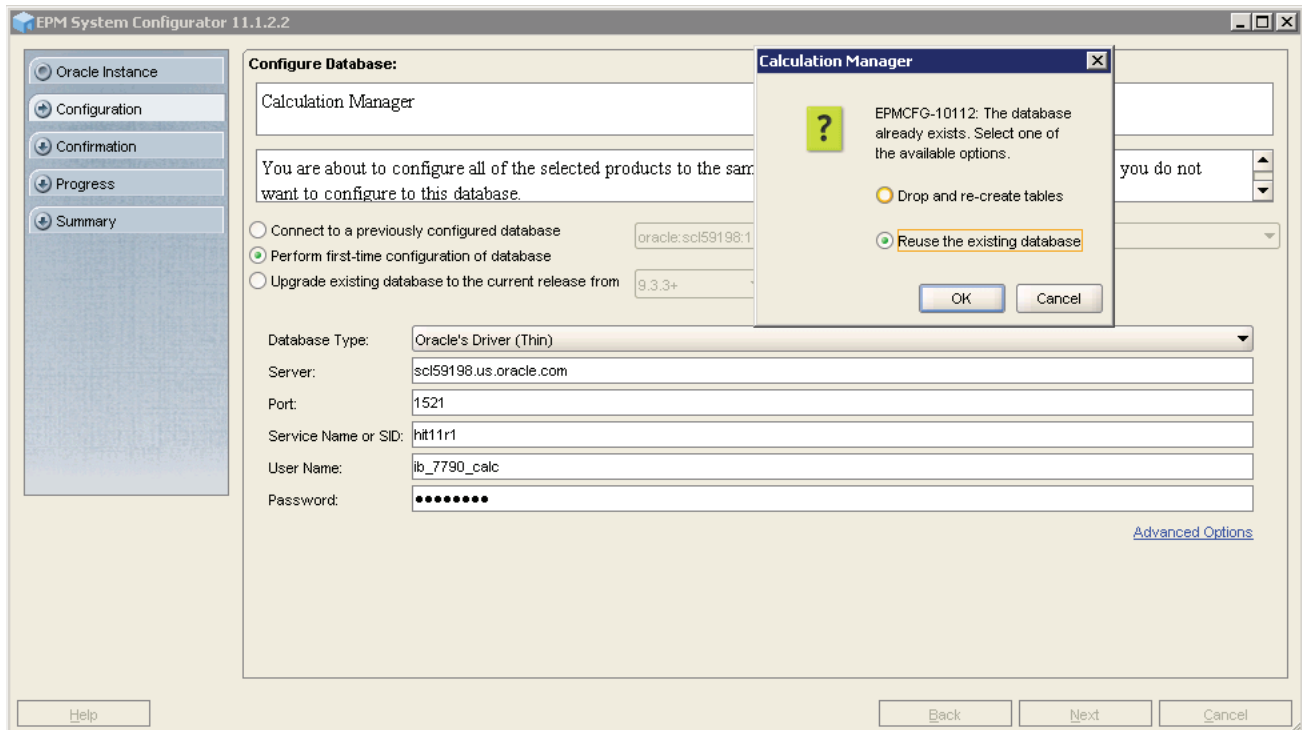
For example, with an Oracle database, use the Import Utility.

- Run EPM System Configurator on one of the machines where a product database is to be moved. Select the database task and the application deployment task for one of the products.

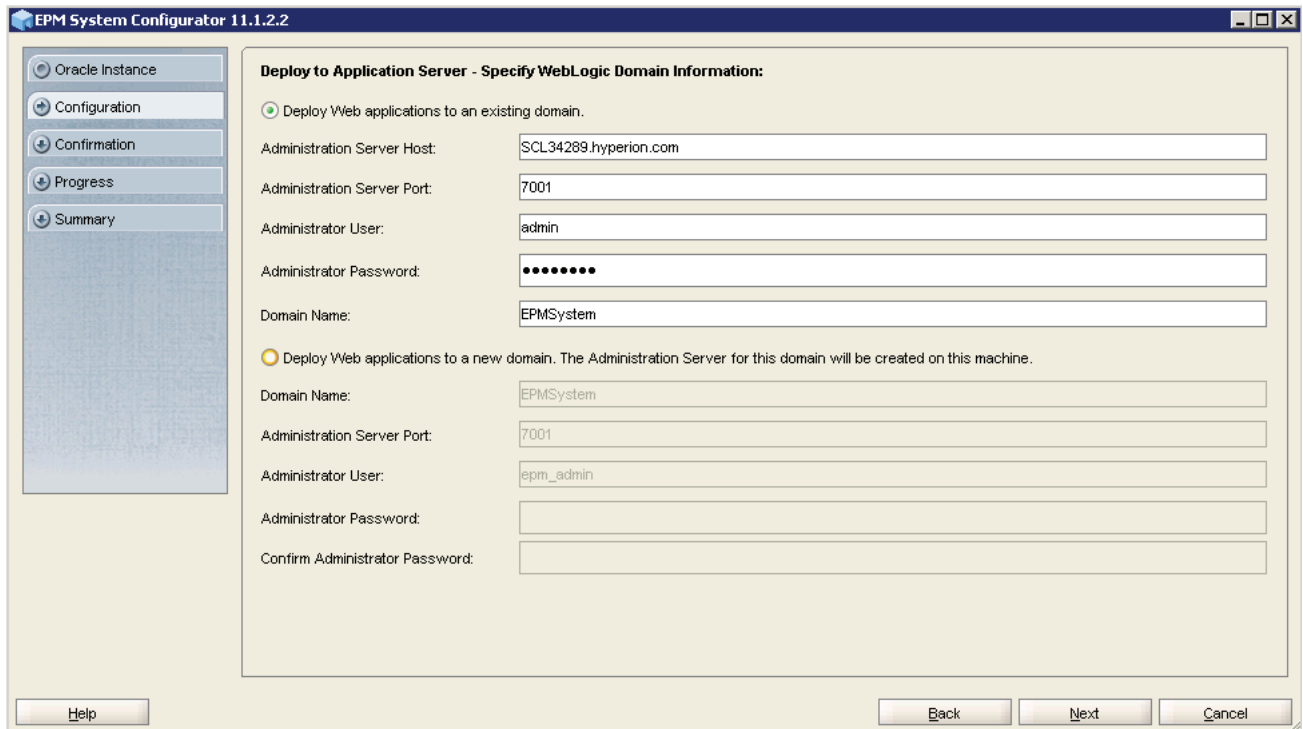


- After selecting Next and arriving at the Configure Database panel, enter the new credentials for the new separate database.

Make sure to create the new database with the **Reuse the existing database** option.



- Click Next through the application deployment panels to the Summary panel and process the changes.



- Exit EPM System Configurator.
- Repeat steps 4 through 6 for other products.
- Restart all processes on all machines.

10. When you are finished and satisfied that everything is working correctly, use a query tool against the registry database and delete the tables for the products that were moved.

Drop tables, views, procedures, and sequences that have the prefixes noted above.

In EPM System Release 11.1.2.2, I configured all products to separate database schemas, but now I want to consolidate some of the product databases together into the registry database schema. Is this supported, and if so, how can I do it?

Yes, this is supported. To do this:

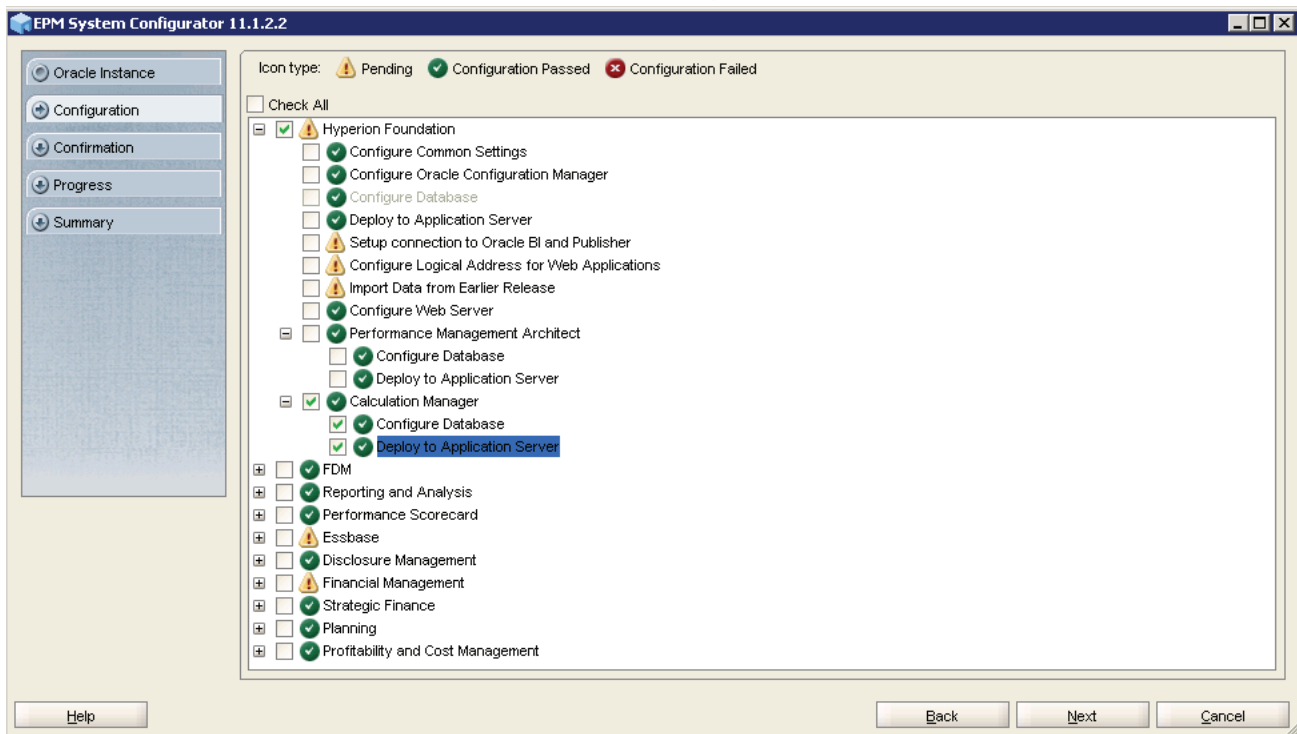
1. Stop all processes running on the Foundation machine (where the admin server is running) and on any machines with products for which you are moving databases.
2. Use standard vendor mechanisms to extract the tables from each of the product databases you want to move.

For example, with an Oracle database, use the Export Utility.

3. Use standard vendor mechanisms to import the tables in to the registry database

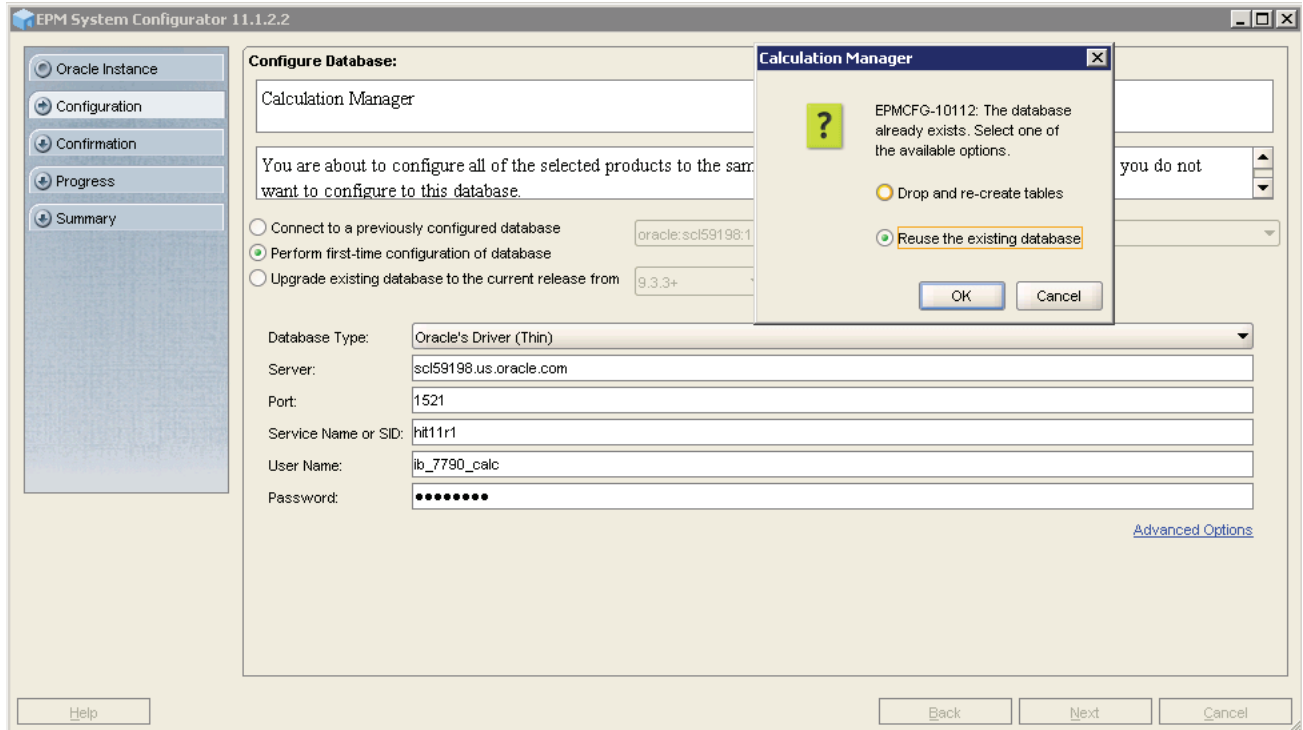
For example, with an Oracle database, use the Import Utility.

4. Run EPM System Configurator on one of the machines where a product database is to be moved. Select the database task and the application deployment task for one of the products.

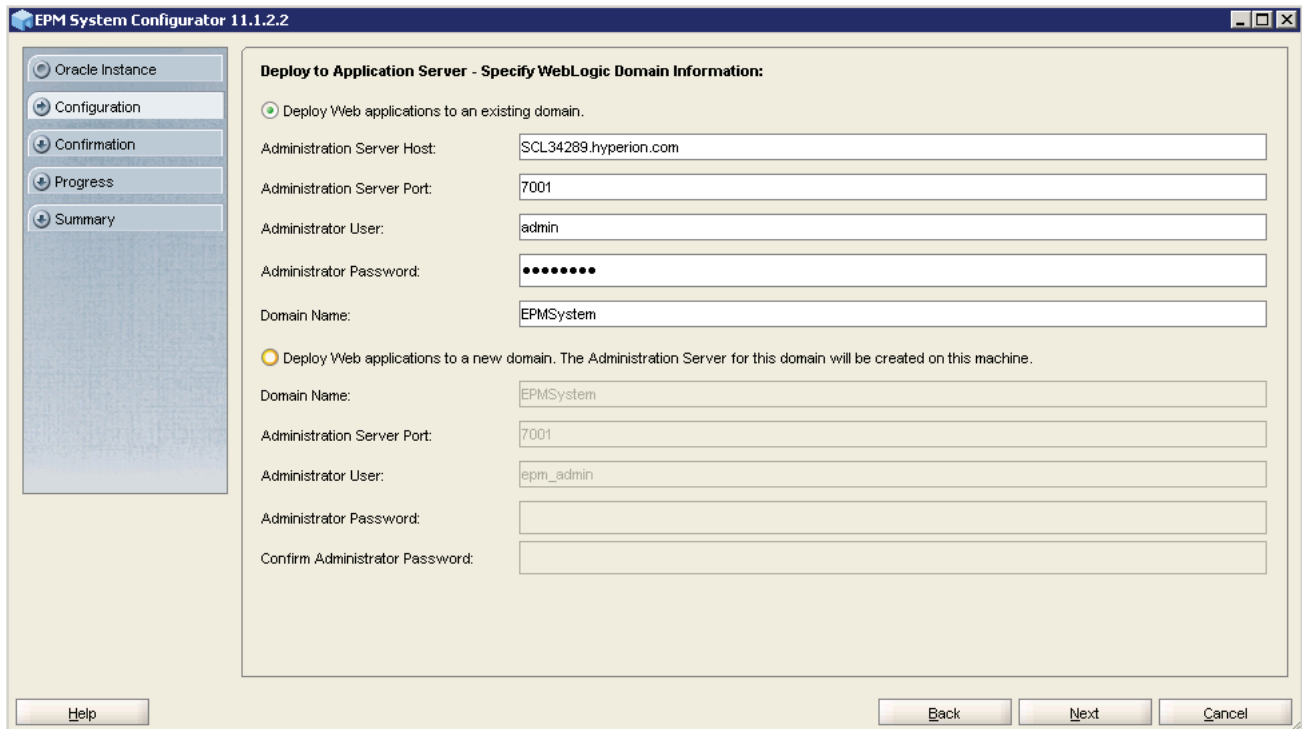


5. After selecting Next and arriving at the Configure Database panel, enter the new credentials for the registry database.

Make sure to use the **Reuse the existing database** option.



6. Click Next through the application deployment panels to the Summary panel and process the changes.



7. Exit EPM System Configurator.

8. Repeat steps 4 through 7 for other products.
9. Restart all processes on all machines.

When I run EPM System Installer for Release 11.1.1.4 on a Windows system, it fails with an error in the console that says:

"java.lang.UnsatisfiedLinkError: no NativeCall in java.library.path".

What is wrong?

This can result from a number of issues, but the first thing to check is if UAC is enabled. If UAC is enabled, disable it. Microsoft's procedure can be found here:

<http://technet.microsoft.com/en-us/library/cc709691%28v=ws.10%29.aspx>

Other reasons you might get this error are:

- TMP/TEMP variables are missing or set to an unwritable location.
- Encoding is wrong and the installer image path has non-ASCII characters in it.
- Wrong bitness of installer files were downloaded; for example, 32 bit on 64 bit system, or 64 bit on a 32 bit system.

Generally, EPM System Installer catches these errors and informs you with a pre-check error.

In EPM System Release 11.1.2.2, after I configured EPM System as an "IIS Admin Service", it appeared in the Services control panel. Why does this appear there?

In Release 11.1.2.2, EPM System Configurator executes command to set up IIS roles during configuration. This ensures that products with an IIS component (like Enterprise Performance Management Architect) get the proper IIS roles installed.

After executing the script, you will see this service if it was not there before IIS was installed and configured.

Can I install multiple, distinct EPM System deployments on a single UNIX server?

Yes, this is supported.

Each EPM System deployment (each with its own Shared Services Registry database) should be installed as a separate user, and all ports must be configured to unique values. There is no clash with central inventory usage if you use separate users.

In a WebSphere deployment of EPM System Release 11.1.2.x, can multiple Oracle products be deployed to the same WebSphere profile?

Similar to WebLogic domains, we do not support multiple Oracle products deployed to the same WebSphere profile. This avoids issues when one Oracle product needs to be upgraded and may require a new version of WebSphere, but the other Oracle product has not yet released a compatible version of WebSphere.

What are the recommended server and heap sizes for EPM System Web applications in Release 11.1.2.2?

For servers running Web applications in the standard deployment model, development recommends servers with physical memory of 12 GB and heap sizes of 8 GB. This recommendation is based on performance testing, which has shown that the number of concurrent users can increase almost linearly up to heap sizes of 8 GB. Having servers with larger memory allows greater flexibility with larger applications on these servers.

The following table shows the recommended sizes for standard deployment instances:

Table 2 EPM System Component Machine Processor Memory

Foundation Services	<i>FNDHOST1</i>	4 core 2 CPU	16 GB
Planning	<i>PLANHOST1</i>	4 core 2 CPU	12 GB
Essbase	<i>ESSHOST1</i>	4 core 2 CPU	16 GB
Financial Management Server	<i>HFMHOST1</i>	4 core 2 CPU	16 GB
Financial Management Web	<i>HFMWEBHOST1</i>	4 core 2 CPU	12 GB
FDM Server	<i>FDMHOST1</i>	4 core 2 CPU	16 GB

The *EPM System Standard Deployment Guide* will be modified to reflect the latest recommendations in the November 2012 monthly update.

In EPM System Release 11.1.2.1, can I get a report that details the EPM System deployment in the customer environment?

Yes, the deployment report created in Release 11.1.2.2 is back ported to Release 11.1.2.1 via Shared Services Patch 13530721.

In EPM System Release 11.1.2.2, which components require Planning RMI Server?

In Release 11.1.2.2, the components that require the Planning RMI Server to be installed and configured are:

- ERP Integrator
- Planning ODI Adapter

When deploying EPM System Release 11.1.2.2 deployment on an Exalytics machine (with 1TB memory), are manual steps required to make it work?

Yes. When using EPM System Configurator to deploy Java web applications, they do not start properly because EPM System Configurator defines too large of a heap size. Generally, EPM System Configurator calculates a maximum heap size of $\frac{1}{4}$ of system memory.

To customize the Java web application settings to address this issue:

1. In `<EPM_ORACLE_INSTANCE>/bin/deploymentScripts`, locate the following scripts for each Java web application:
`setCustomParams*.sh`, where `*` is replaced with each managed server name
2. In each `setCustomParams*.sh` script, update the following two `JAVA_OPTIONS` settings:
 - Update the `-Xmx` setting to be: **`-Xmx60000m`**
 - Update the `-XXcompressedRefs:size` setting to be: **`-XXcompressedRefs:size=64GB`**
3. Restart the Java web applications.

In EPM System Release 11.1.2.2, is it possible to run all EPM System products in one Oracle database instance?

Yes. Starting with this release, all EPM System products support and recommend “Exact” for “Cursor Sharing”, and therefore can exist in the same Oracle database instance.

Development Announcement: The Oracle database privileges “CREATE ANY SYNONYM” and “DROP ANY SYNONYM” have been added to the EPM System Release 11.1.2.2 *Installation Start Here* document (see p. 38). These Oracle database privileges are needed only for Profitability and Cost Management and were missing in the documentation.

**In EPM System Release 11.1.2.2, I see this error in the EPM System managed server log for Planning:
java.sql.SQLRecoverableException:
IO Error: Read failed: Connection
timed out. What is causing this error and how can I fix it?**

If there is a firewall set up between the Planning mid-tier server and the Planning RDBMS, check the firewall connection timeout setting (typically 30 minutes). Then edit the planning RDBMS server `sqlnet.ora` file on the Oracle database server and add the parameter `sqlnet.expire_time=10` to set the connection expire time to 10 minutes. This value should be smaller than the firewall timeout setting. Restart EPM System processes for the setting to take effect.

In EPM System Release 11.1.2.1.00, during performance testing, we found that Planning and Financial Reporting were both experiencing severe delays under moderate load – login was slow and there were a high number of calls to the database. What could be the issue?

Apply either Shared Services patch 13397991 or apply the PSU 600 (Release 11.1.2.1.600) to solve this issue in Release 11.1.2.1. It is no longer an issue in 11.1.2.2 and higher.

In EPM System Release 11.1.2.1, there are old records in the delta cache table `CSS_GROUP_CACHE_DELTA`. Why are there so many records, and do they cause any issues?

In Releases 11.1.2.0 and 11.1.2.1, the delta cache table is not purged. These records do not cause any performance issues except that database size grows over time. You can purge these records manually during a maintenance downtime. In Release 11.1.2.2 and higher, the records are automatically purged.

In EPM System Release 11.1.2.2, when I deploy all applications on a UNIX server to individual servers (non-compact) and start up all the servers, I get several Java processes. How do I tell which is which?

The following table identifies strings found in PS command output. To find the process for a given component, you can take the identifying string from the table and issue the following command:

```
ps -ef | grep <identifying string>
```

Table 3 String Found in PS Command Output

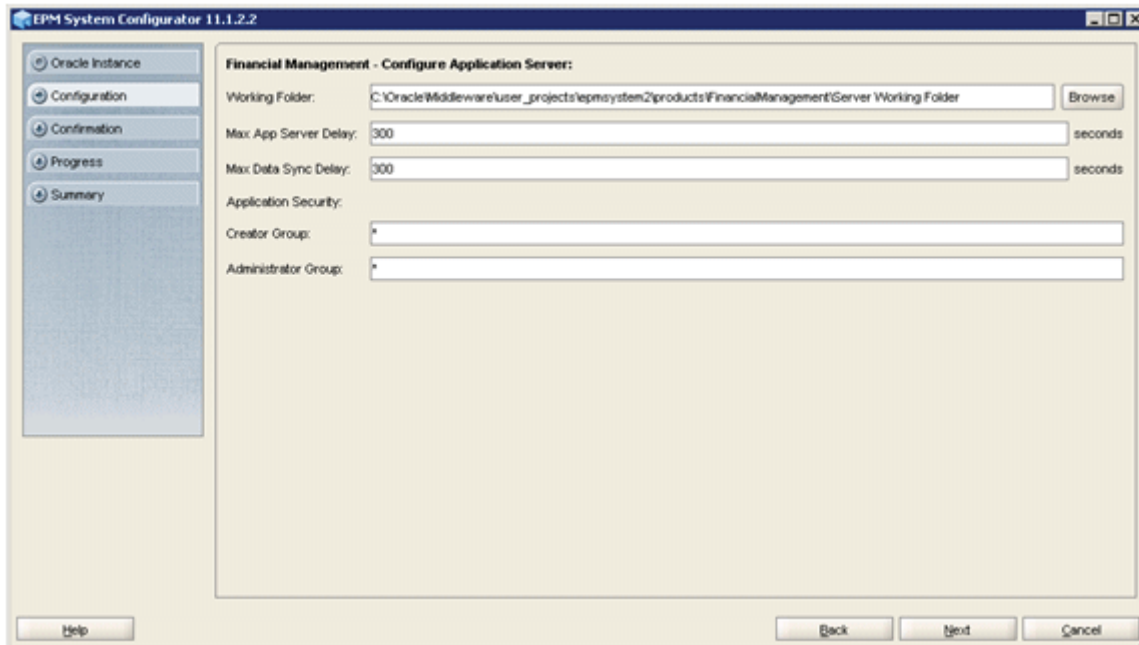
Component	Identifying String
Workspace WebApp	weblogic.Name=FoundationServices0
Shared Services WebApp	weblogic.Name=FoundationServices0
Essbase OPMN process	opmn/bin/opmn

Component	Identifying String
Essbase Server agent process	ESSBASE
Web Server OPMN process for OHS	ohs/bin/opmn
OHS apache process	httpd
Calculation Manager WebApp	weblogic.Name=CalcMgr0
EPMA WebApp	weblogic.Name=EpmaWebReports0
EPMA DataSync WebApp	Dweblogic.Name=EpmaDataSync0
RA Framework Agent	wksagent
RA Framework WebApp	weblogic.Name=RaFramework0
Planning WebApp	weblogic.Name=Planning0
HPS Reports WebApp	weblogic.Name=HpsWebReports0
HPS Alerter WebApp	weblogic.Name=HpsAlerter0
BI+ Financial Reporting WebApp	weblogic.Name=FinancialReporting0
BI+ WebAnalysis WebApp	weblogic.Name=WebAnalysis0
Financial Close WebApp	weblogic.Name=FinancialClose0
Account Reconciliation WebApp	weblogic.Name=AccountReconciliation0
Essbase Administration Services WebApp	weblogic.Name=EssbaseAdminServices0
Disclosure Management WebApp	Dweblogic.Name=DisclosureManagement0
R&A Module RA Framework	RAF_AGENT_MODULE
R&A Logging process	IRLOG_AGENT_MODULE
R&A DataAnalysis process	IRDAS_AGENT_MODULE
R&A BI Service	IRBI_AGENT_MODULE
R&A BI Job Module	IRJOB_AGENT_MODULE
Essbase Studio Server	ESSBASE_STUDIO_INSTANCE
Analytic Provider Webapp	weblogic.Name=AnalyticProviderServices0

In EPM System Release 11.1.2.2, when I install Financial Management, the dialog box for configuring the Financial Management application server has dropped three fields. Is my installation bad?

No, this is a design change.

Prior to Release 11.1.2.2, the Configuration dialog box in EPM System Configurator appeared as follows:

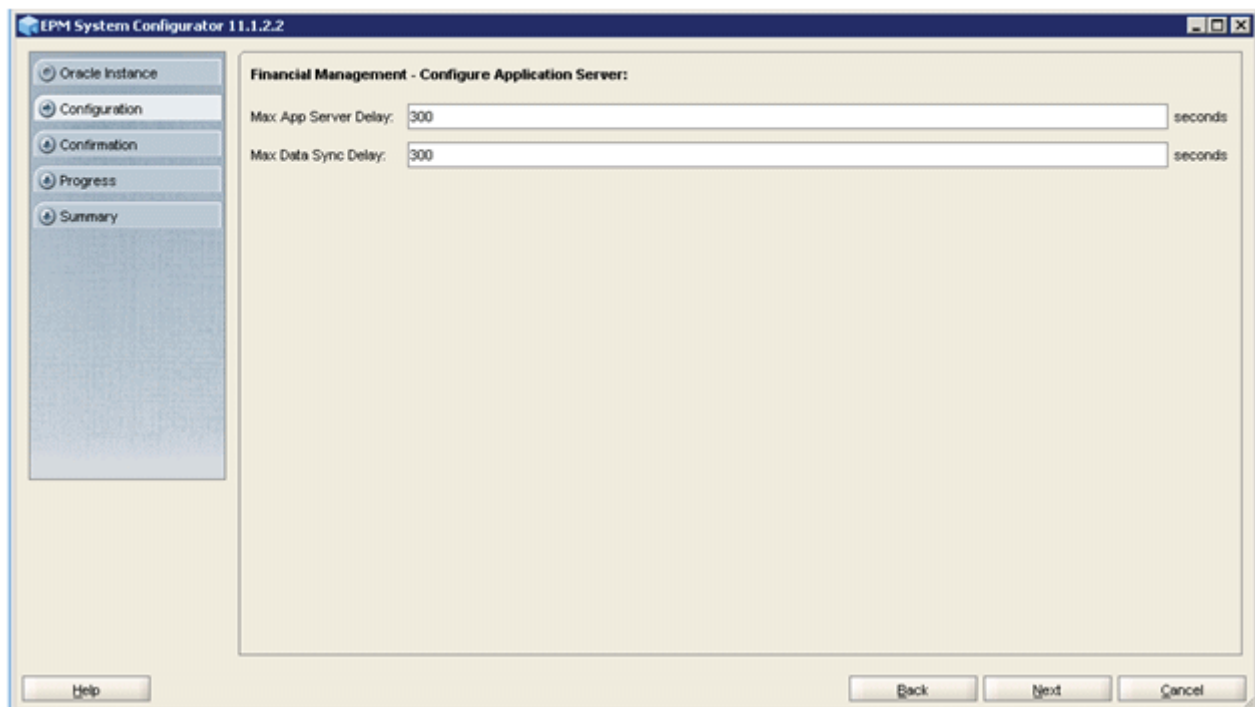


The **Working Folder** field was removed because the working folder is fixed and located in `EPM_ORACLE_INSTANCE`; for example, `EPM_ORACLE_INSTANCE/products/FinancialManagement/Server Working Folder`.

The **Creator Group** and **Administrator Group** fields were removed because in Release 11.1.2.2, Financial Management checks Shared Services roles to decide whether users have the rights to perform an action.

In EPM System Releases 11.1.2.1 and 11.1.2.2, I use EPM System Configurator to configure the Financial Management application server and set the delay properties. I see that they are saved in the Shared Services Registry, but when I exit and return to EPM System Configurator, they are missing and the default values are displayed in the dialog box. Is this a functional issue or just a user interface bug ?

EPM System Configurator shows the default values, not the user customized settings; however, the customized setting are saved in Shared Services Registry and the software reads them from there. There is no functional issue with Financial Management using the customized values.



If you generate a `registry.html` report (using `epmsys_registry` utility), you will see that the values do get set and customized: As long as the following two properties in Shared Services Registry have the customized values, there is no functional issue:

`FINANCIAL_MANAGEMENT_PRODUCT/MultiServerMaxSyncDelayForDataChanges`

`FINANCIAL_MANAGEMENT_PRODUCT/MultiServerMaxSyncDelayForDataChanges`

Using Oracle Hyperion Planning Release 11.1.2.3 on Oracle Exalytics In-Memory Machine T5-8

The following Planning Suite components are certified to run on Oracle Exalytics In-Memory Machine T5-8:

- Oracle Essbase Server
- Oracle HTTP Server
- Oracle Hyperion Provider Services
- Oracle Hyperion Calculation Manager
- Oracle Essbase Administration Server
- Oracle Hyperion Shared Services
- Oracle Hyperion Enterprise Performance Management Workspace
- Oracle Hyperion Planning
- Oracle Hyperion Financial Reporting
- Oracle Hyperion Web Analysis

For complete list of certified EPM System components on Oracle Exalytics In-Memory Machine T5-8, see the Certification Matrix located at <http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html>.

To build a vertically clustered Planning Suite solution on Oracle Exalytics In-Memory Machine T5-8:

1. Use EPM System Installer Release 11.1.2.3 to install the following components:
 - Foundation Services Web applications
 - Calculation Manager Web application
 - Essbase Administration Services Web application
 - Provider Services Web application
 - Reporting and Analysis Framework Services and Web application
 - Planning Web application
 - Financial Reporting Web application
 - Essbase Server
 - Oracle HTTP Server

Note: You must install these components in a different Middleware Home from the Oracle Business Intelligence Enterprise Edition software, if already installed on the machine.

2. Download and apply EPM System patch 16831604.
3. For the first instance, use EPM System Configurator to create a new domain and instance, and deploy the components you installed.

4. When configuring the second and subsequent instances on this machine:
 - a. Specify a unique instance folder that does not duplicate existing instances on the server.
 - b. Use the same Shared Services Registry database.
 - c. Use the same domain.
 - d. For each of the following Web applications, review the ports to ensure that they do not conflict with any other applications. Oracle Hyperion Enterprise Performance Management System Configurator automatically configures them so they do not conflict with other instances that are already configured.

- Calculation Manager Web application
- Essbase Administration Services Web application
- Provider Services Web application
- Reporting and Analysis Framework Web application
- Planning Web application

The Planning RMI port stays the same, so it does not need to change for additional clusters.

- Financial Reporting Web application

Change the port range field settings on the Financial Reporting – Configure RMI Ports panel in EPM System Configurator.

The following port ranges should not be used: 9500 – 9999, 53396 – 53397. These ports are used by default in Oracle BI EE deployments.

After configuration, the deployment report should look something like this:

myServer.myDomain (epmsystem1 - Solaris 11 x64 - 2048 GB - 512 Cores)

Essbase (EssbaseCluster-1):1423,32768-33768

Foundation Agent - Reporting and Analysis Framework:6800-6805,6860,6861

OHS:19000

Planning RMI Registry:11333

WebLogic - AdminServer:7001 - EPMSsystem - Console

WebLogic - AnalyticProviderServices0:13080 - EPMSsystem - Essbase Provider Services Web Application

WebLogic - CalcMgr0:8500 - EPMSsystem - Calculation Manager Web Application

WebLogic - EssbaseAdminServices0:10080 - EPMSsystem - Essbase Administration Services Web Application

WebLogic - FinancialReporting0:8200 - EPMSsystem - Financial Reporting Web Application

WebLogic - FoundationServices0:28080 - EPMSsystem - Shared Services Web Application

WebLogic - FoundationServices0:28080 - EPMSsystem - Workspace Web Application

WebLogic - Planning0:8300 - EPMSsystem - Planning Web Application

WebLogic - RaFramework0:45000 - EPMSsystem - Reporting & Analysis Web Application

WebLogic - WebAnalysis0:16000 - EPMSsystem - Web Analysis Web Application

myServer.myDomain (epmsystem2 - Solaris 11 x64 - 2048 GB - 512 Cores)

Foundation Agent - Reporting and Analysis Framework:6806-6811,6862,6863

WebLogic - AnalyticProviderServices1:13081 - EPMSsystem - Essbase Provider Services Web Application

WebLogic - CalcMgr1:8501 - EPMSsystem - Calculation Manager Web Application

WebLogic - EssbaseAdminServices1:10081 - EPMSsystem - Essbase Administration Services Web Application

WebLogic - FinancialReporting1:8201 - EPMSsystem - Financial Reporting Web Application

WebLogic - FoundationServices1:28081 - EPMSsystem - Shared Services Web Application

WebLogic - FoundationServices1:28081 - EPMSsystem - Workspace Web Application

WebLogic - Planning1:8301 - EPMSsystem - Planning Web Application

WebLogic - RaFramework1:45001 - EPMSsystem - Reporting & Analysis Web Application

WebLogic - WebAnalysis1:16100 - EPMSsystem - Web Analysis Web Application

myServer.myDomain (epmsystem3 - Solaris 11 x64 - 2048 GB - 512 Cores)

Foundation Agent - Reporting and Analysis Framework:6812-6817,6864,6865

WebLogic - AnalyticProviderServices2:13082 - EPMSsystem - Essbase Provider Services Web Application

WebLogic - CalcMgr2:8502 - EPMSsystem - Calculation Manager Web Application

WebLogic - EssbaseAdminServices2:10082 - EPMSsystem - Essbase Administration Services Web Application

WebLogic - FinancialReporting2:8202 - EPMSsystem - Financial Reporting Web Application

WebLogic - FoundationServices2:28082 - EPMSsystem - Shared Services Web Application

WebLogic - FoundationServices2:28082 - EPMSsystem - Workspace Web Application

WebLogic - Planning2:8302 - EPMSsystem - Planning Web Application

WebLogic - RaFramework2:45002 - EPMSsystem - Reporting & Analysis Web Application

WebLogic - WebAnalysis2:16101 - EPMSsystem - Web Analysis Web Application

5. After configuration is complete:
 - a. Edit `Essbase.cfg` and add the line: `ORACLEHARDWAREACCELERATION TRUE`.
 - b. Return to the first instance and configure the Web server.
6. In each `EPM_ORACLE_INSTANCE/bin`, use `start.sh` to start all services.
7. Run EPM System Diagnostics to confirm that everything is in working order.

Update: Building a full Essbase, Financial Management, and Planning Release 11.1.2.3 Deployment on Oracle Exalytics In-Memory Machine

This tip has been updated to indicate that you can install Oracle Hyperion Foundation Services Release 11.1.2.3 on the Oracle Exalytics In-Memory Machine.

The best practice is to have Financial Management and Planning share one Foundation Services.

For this type of deployment, we recommend that you configure EPM System components on Oracle Exalytics and Windows as depicted in the following deployment report, with the addition of SOA, which needs to be deployed on Windows.

```
scl20048(epmsystem 1 - Linux x64 - 8GB)
  Essbase - EssbaseCluster-1 - Essbase1:1423
  Essbase Studio Server - 9080
  OHS - 19000
  Reporting & Analysis Service - 6800 - GSM
  Reporting & Analysis Service - 6814-6815 - DAS
  Weblogic - EPMSystem - AdminServer:7001 - Console
  Weblogic - EPMSystem - AnalyticProviderServices0:13080 - Essbase Provider Services Web Application
  Weblogic - EPMSystem - CalcMgr0:8500 - Calculation Manager Web Application
  Weblogic - EPMSystem - EpmaDataSync0:19101 - EPMA Data Synchronizer Web Application
  Weblogic - EPMSystem - EpmaWebReports0:19091 - EPMA Web Application
  Weblogic - EPMSystem - EssbaseAdminServices0:10080 - Essbase Administration Services Web Application
  Weblogic - EPMSystem - FoundationServices0:28080 - Shared Services Web Application
  Weblogic - EPMSystem - FoundationServices0:28080 - Workspace Web Application
  Weblogic - EPMSystem - HpsAlerter0:18081 - Performance Scorecard Alerter Web Application
  Weblogic - EPMSystem - HpsWebReports0:18080 - Performance Scorecard Web Reports Web Application
  Weblogic - EPMSystem - Planning0:8300 - Planning Web Application
  Weblogic - EPMSystem - Profitability0:6756 - Profitability Web Application
  Weblogic - EPMSystem - RaFramework0:45000 - Reporting & Analysis Web Application
scl34279 (epmsystem 1 - Windows Server 2008 R2 - 16GB)
  EPMA Dimension Server - 5251
  Financial Data Quality Server - DCOM Ports
  Financial Management Server - DCOM Ports - (Cluster1, scl34279)
  IIS - 80 - EPMA IIS WebService
  IIS - 80 - Financial Data Quality IIS Web Application
  IIS - 80 - Financial Management IIS Web Application
  IIS - 80 - Financial Management IIS Web Service
  IIS - 80 - Financial Management Lifecycle Management IIS Web Application
  IIS - 80 - Financial Management Smartview IIS Web Application
  Reporting & Analysis Service - 6800 - GSM
  Weblogic - soa_domain - AdminServer:7001 - Console
  Weblogic - soa_domain - DisclosureManagement0:8600 - Disclosure Management Web Application
  Weblogic - soa_domain - EpmaWebReports0:19091 - EPMA Web Application
  Weblogic - soa_domain - ErpIntegrator0:6550 - ERPI Web Application
  Weblogic - soa_domain - FinancialClose0:8700 - Account Reconciliation Web Application
  Weblogic - soa_domain - FinancialClose0:8700 - Financial Close Web Application
  Weblogic - soa_domain - FinancialReporting0:8200 - Financial Reporting Web Application
  Weblogic - soa_domain - HFMWeb0:7363 - Financial Management Web Application
  Weblogic - soa_domain - HFMWeb0:7363 - Financial Management Web Service
  Weblogic - soa_domain - WebAnalysis0:16000 - Web Analysis Web Application
```

Note: For this deployment, you are required to apply patch 16831604 to both Windows and Oracle Exalytics machines.

The following section shows the deployment history for a full deployment:

scl20048 - 06/17/2013

This table lists configuration history of activities on the specified date and server combination.

Start Time	Duration	Action	Component
00:27	00:00	Start	EPM Configurator
00:31	00:00	Configure	Hyperion Foundation
00:31	00:00	Configure Common Settings	Hyperion Foundation
00:31	00:09	Configure Oracle Configuration Manager	Hyperion Foundation
00:31	00:13	Configure Database	Hyperion Foundation
00:32	00:01	Register with Shared Services	Performance Management Architect
00:32	00:00	Configure	Performance Management Architect
00:32	00:00	Register with Shared Services	Essbase Studio
00:32	00:00	Configure	Essbase Studio
00:32	00:05	Configure Database	Essbase Studio
00:32	00:00	Configure	Calculation Manager
00:32	00:00	Register with Shared Services	Calculation Manager
00:32	00:05	Configure Database	Calculation Manager
00:32	00:00	Register with Shared Services	Essbase Administration Services
00:32	00:03	Configure Database	Essbase Administration Services
00:32	00:00	Configure Essbase Integration Services	Essbase Integration Services
00:32	00:00	Configure	Essbase
00:32	00:00	Configure	Essbase Integration Services
00:32	00:31	Register with Shared Services	Performance Scorecard
00:32	00:00	Register with Shared Services	Essbase
00:33	00:18	Configure Database	Performance Scorecard
00:33	00:00	Configure Attachment Files Location	Performance Scorecard
00:33	00:00	Configure	Planning
00:33	00:00	Register with Shared Services	Planning
00:33	00:03	Configure Database	Planning
00:33	00:36	Configure Database	Profitability and Cost Management
00:33	00:00	Register with Shared Services	Profitability and Cost Management
00:33	00:00	Configure	Profitability and Cost Management
00:34	00:09	Configure	Reporting and Analysis
00:34	00:04	Register with Shared Services	Reporting and Analysis
00:34	01:06	Configure Database	Reporting and Analysis
00:35	00:11	Configure Framework Services	Reporting and Analysis
00:35	00:04	Configure Reporting and Analysis Services	Reporting and Analysis
00:35	04:41	Deploy to Application Server	Shared Services Web Application
00:40	00:00	Deploy to Application Server	EPMA Data Synchronizer Web Application
00:40	00:00	Deploy to Application Server	EPMA Web Application
00:40	00:00	Deploy to Application Server	Calculation Manager Web Application
00:40	00:00	Deploy to Application Server	Essbase Administration Services Web Application
00:40	00:00	Deploy to Application Server	Performance Scorecard Alerter Web Application
00:40	00:00	Deploy to Application Server	Performance Scorecard Web Reports Web Application
00:40	00:01	Deploy to Application Server	Planning Web Application
00:40	00:00	Deploy to Application Server	Workspace Web Application
00:40	00:00	Deploy to Application Server	Profitability Web Application
00:40	00:00	Deploy to Application Server	Reporting & Analysis Web Application
00:40	00:00	Deploy to Application Server	Web Analysis Web Application
00:40	00:05	Configure Essbase Server	Essbase
00:40	00:00	Processing Re-registration Script	Profitability and Cost Management
00:40	00:00	Processing Re-registration Script	Reporting and Analysis
00:40	01:03	Configure Web Server	Hyperion Foundation

scl34279 - 06/17/2013

This table lists configuration history of activities on the specified date and server combination.

Start Time	Duration	Action	Component
02:21	00:00	Start	EPM Configurator
02:32	00:00	Configure	Hyperion Foundation
02:32	00:06	Configure Common Settings	Hyperion Foundation
02:33	01:04	Configure Oracle Configuration Manager	Hyperion Foundation
02:34	00:03	Configure Database	Hyperion Foundation
02:34	00:02	Register with Shared Services	ERP Integrator
02:34	01:02	Configure Database	ERP Integrator
02:35	00:05	Configure	Performance Management Architect
02:35	00:22	Configure Database	Performance Management Architect
02:35	00:13	Create EPMA Virtual Directory	Performance Management Architect
02:36	00:01	Configure	Disclosure Management
02:36	00:00	Register with Shared Services	Disclosure Management
02:36	00:17	Configure Database	Disclosure Management
02:36	00:00	Configure	FDM
02:36	00:21	Configure FDM Web Application	FDM
02:36	00:01	Configure FDM Server	FDM
02:37	00:00	Configure	Financial Close Management
02:37	00:00	Register with Shared Services	Financial Close Management
02:37	00:56	Configure Database	Financial Close Management
02:38	00:00	Configure Content Management System Location	Financial Close Management
02:38	00:00	Configure	Account Reconciliation
02:38	00:00	Register with Shared Services	Account Reconciliation
02:38	00:30	Configure Database	Account Reconciliation
02:38	00:00	Configure Content Management System Location	Account Reconciliation
02:38	00:00	Configure	Reporting and Analysis
02:38	00:04	Configure Database	Reporting and Analysis
02:38	00:40	Configure Framework Services	Reporting and Analysis
02:39	00:00	Configure	Financial Reporting
02:39	00:02	Configure Database	Financial Reporting
02:39	00:00	Configure Financial Reporting RMI Ports	Financial Reporting
02:39	01:06	Configure	Financial Management
02:40	00:00	Register with Shared Services	Financial Management
02:40	00:09	Configure DCOM	Financial Management
02:40	00:18	Configure Database	Financial Management
02:41	00:04	Configure Application Server	Financial Management
02:41	00:00	Configure Application Cluster	Financial Management
02:41	00:44	Configure Web Server	Financial Management
02:42	09:28	Deploy to Application Server	ERPI Web Application
02:51	00:00	Deploy to Application Server	EPMA Web Application
02:51	00:00	Deploy to Application Server	Disclosure Management Web Application
02:51	00:00	Deploy to Application Server	Financial Close Management Web Application
02:51	00:00	Deploy to Application Server	Account Reconciliation Management Web Application
02:51	00:00	Deploy to Application Server	Web Analysis Web Application
02:51	00:00	Deploy to Application Server	Financial Reporting Web Application
02:51	00:00	Deploy to Application Server	Financial Management Web Application
02:51	00:00	Deploy to Application Server	Financial Management Web Service
02:51	00:00	Processing Re-registration Script	Reporting and Analysis

scl34279 - 06/17/2013

This table lists configuration history of activities on the specified date and server combination.

Start Time	Duration	Action	Component
03:31	00:00	Stop	EPM Configurator
03:41	00:00	Start	EPM Configurator
03:42	01:09	Deploy to SOA	Financial Close Management
03:44	00:11	Deploy to SOA	Account Reconciliation
03:44	00:07	Deploy to SOA for ERPI	Account Reconciliation

scl20048 - 06/17/2013

This table lists configuration history of activities on the specified date and server combination.

Start Time	Duration	Action	Component
03:50	01:03	Configure Web Server	Hyperion Foundation

Update: Building a full Essbase, Financial Management, and Planning Release 11.1.2.2 Deployment on Oracle Exalytics In-Memory Machine

This tip has been updated to indicate that you can install Oracle Hyperion Foundation Services Release 11.1.2.2 on the Oracle Exalytics In-Memory Machine.

The best practice is to have Financial Management and Planning share one Foundation Services.

For this type of deployment, we recommend that you configure EPM System components on Oracle Exalytics and Windows as depicted in the following deployment report, with the addition of SOA, which needs to be deployed on Windows.

scl20048(epmsystem 1 - Linux x64 - 8GB)

Essbase - EssbaseCluster-1 - Essbase1:1423
Essbase Studio Server - 9080
OHS - 19000
Reporting & Analysis Service - 6800 - GSM
Reporting & Analysis Service - 6814-6815 - DAS
Weblogic - EPMSysstem - AdminServer:7001 - Console
Weblogic - EPMSysstem - AnalyticProviderServices0:13080 - Essbase Provider Services Web Application
Weblogic - EPMSysstem - CalcMgr0:8500 - Calculation Manager Web Application
Weblogic - EPMSysstem - EpmaDataSync0:19101 - EPMA Data Synchronizer Web Application
Weblogic - EPMSysstem - EpmaWebReports0:19091 - EPMA Web Application
Weblogic - EPMSysstem - EssbaseAdminServices0:10080 - Essbase Administration Services Web Application
Weblogic - EPMSysstem - FoundationServices0:28080 - Shared Services Web Application
Weblogic - EPMSysstem - FoundationServices0:28080 - Workspace Web Application
Weblogic - EPMSysstem - HpsAlerter0:18081 - Performance Scorecard Alerter Web Application
Weblogic - EPMSysstem - HpsWebReports0:18080 - Performance Scorecard Web Reports Web Application
Weblogic - EPMSysstem - Planning0:8300 - Planning Web Application
Weblogic - EPMSysstem - Profitability0:6756 - Profitability Web Application
Weblogic - EPMSysstem - RaFramework0:45000 - Reporting & Analysis Web Application

scl34279 (epmsystem 1 - Windows Server 2008 R2 - 16GB)

EPMA Dimension Server - 5251
Financial Data Quality Server - DCOM Ports
Financial Management Server - DCOM Ports - (Cluster1, scl34279)
IIS - 80 - EPMA IIS WebService
IIS - 80 - Financial Data Quality IIS Web Application
IIS - 80 - Financial Management IIS Web Application
IIS - 80 - Financial Management IIS Web Service
IIS - 80 - Financial Management Lifecycle Management IIS Web Application
IIS - 80 - Financial Management Smartview IIS Web Application
Reporting & Analysis Service - 6800 - GSM
Weblogic - soa_domain - AdminServer:7001 - Console
Weblogic - soa_domain - DisclosureManagement0:8600 - Disclosure Management Web Application
Weblogic - soa_domain - EpmaWebReports0:19091 - EPMA Web Application
Weblogic - soa_domain - ErpIntegrator0:6550 - ERPI Web Application
Weblogic - soa_domain - FinancialClose0:8700 - Account Reconciliation Web Application
Weblogic - soa_domain - FinancialClose0:8700 - Financial Close Web Application
Weblogic - soa_domain - FinancialReporting0:8200 - Financial Reporting Web Application
Weblogic - soa_domain - HFMWeb0:7363 - Financial Management Web Application
Weblogic - soa_domain - HFMWeb0:7363 - Financial Management Web Service
Weblogic - soa_domain - WebAnalysis0:16000 - Web Analysis Web Application

Note: For this deployment, you are required to apply patch 16618029 to both Windows and Oracle Exalytics machines.

The following section shows the deployment history for a full deployment:

scl20048 - 06/17/2013			
This table lists configuration history of activities on the specified date and server combination.			
Start Time	Duration	Action	Component
00:27	00:00	Start	EPM Configurator
00:31	00:00	Configure	Hyperion Foundation
00:31	00:00	Configure Common Settings	Hyperion Foundation
00:31	00:09	Configure Oracle Configuration Manager	Hyperion Foundation
00:31	00:13	Configure Database	Hyperion Foundation
00:32	00:01	Register with Shared Services	Performance Management Architect
00:32	00:00	Configure	Performance Management Architect
00:32	00:00	Register with Shared Services	Essbase Studio
00:32	00:00	Configure	Essbase Studio
00:32	00:05	Configure Database	Essbase Studio
00:32	00:00	Configure	Calculation Manager
00:32	00:00	Register with Shared Services	Calculation Manager
00:32	00:05	Configure Database	Calculation Manager
00:32	00:00	Register with Shared Services	Essbase Administration Services
00:32	00:03	Configure Database	Essbase Administration Services
00:32	00:00	Configure Essbase Integration Services	Essbase Integration Services
00:32	00:00	Configure	Essbase
00:32	00:00	Configure	Essbase Integration Services
00:32	00:31	Register with Shared Services	Performance Scorecard
00:32	00:00	Register with Shared Services	Essbase
00:33	00:18	Configure Database	Performance Scorecard
00:33	00:00	Configure Attachment Files Location	Performance Scorecard
00:33	00:00	Configure	Planning
00:33	00:00	Register with Shared Services	Planning
00:33	00:03	Configure Database	Planning
00:33	00:36	Configure Database	Profitability and Cost Management
00:33	00:00	Register with Shared Services	Profitability and Cost Management
00:33	00:00	Configure	Profitability and Cost Management
00:34	00:09	Configure	Reporting and Analysis
00:34	00:04	Register with Shared Services	Reporting and Analysis
00:34	01:06	Configure Database	Reporting and Analysis
00:35	00:11	Configure Framework Services	Reporting and Analysis
00:35	00:04	Configure Reporting and Analysis Services	Reporting and Analysis
00:35	04:41	Deploy to Application Server	Shared Services Web Application
00:40	00:00	Deploy to Application Server	EPMA Data Synchronizer Web Application
00:40	00:00	Deploy to Application Server	EPMA Web Application
00:40	00:00	Deploy to Application Server	Calculation Manager Web Application
00:40	00:00	Deploy to Application Server	Essbase Administration Services Web Application
00:40	00:00	Deploy to Application Server	Performance Scorecard Alerts Web Application
00:40	00:00	Deploy to Application Server	Performance Scorecard Web Reports Web Application
00:40	00:01	Deploy to Application Server	Planning Web Application
00:40	00:00	Deploy to Application Server	Workspace Web Application
00:40	00:00	Deploy to Application Server	Profitability Web Application
00:40	00:00	Deploy to Application Server	Reporting & Analysis Web Application
00:40	00:00	Deploy to Application Server	Web Analysis Web Application
00:40	00:05	Configure Essbase Server	Essbase
00:40	00:00	Processing Re-registration Script	Profitability and Cost Management
00:40	00:00	Processing Re-registration Script	Reporting and Analysis
00:40	01:03	Configure Web Server	Hyperion Foundation

scl34279 - 06/17/2013

This table lists configuration history of activities on the specified date and server combination.

Start Time	Duration	Action	Component
02:21	00:00	Start	EPM Configurator
02:32	00:00	Configure	Hyperion Foundation
02:32	00:06	Configure Common Settings	Hyperion Foundation
02:33	01:04	Configure Oracle Configuration Manager	Hyperion Foundation
02:34	00:03	Configure Database	Hyperion Foundation
02:34	00:02	Register with Shared Services	ERP Integrator
02:34	01:02	Configure Database	ERP Integrator
02:35	00:05	Configure	Performance Management Architect
02:35	00:22	Configure Database	Performance Management Architect
02:35	00:13	Create EPMA Virtual Directory	Performance Management Architect
02:36	00:01	Configure	Disclosure Management
02:36	00:00	Register with Shared Services	Disclosure Management
02:36	00:17	Configure Database	Disclosure Management
02:36	00:00	Configure	FDM
02:36	00:21	Configure FDM Web Application	FDM
02:36	00:01	Configure FDM Server	FDM
02:37	00:00	Configure	Financial Close Management
02:37	00:00	Register with Shared Services	Financial Close Management
02:37	00:56	Configure Database	Financial Close Management
02:38	00:00	Configure Content Management System Location	Financial Close Management
02:38	00:00	Configure	Account Reconciliation
02:38	00:00	Register with Shared Services	Account Reconciliation
02:38	00:30	Configure Database	Account Reconciliation
02:38	00:00	Configure Content Management System Location	Account Reconciliation
02:38	00:00	Configure	Reporting and Analysis
02:38	00:04	Configure Database	Reporting and Analysis
02:38	00:40	Configure Framework Services	Reporting and Analysis
02:39	00:00	Configure	Financial Reporting
02:39	00:02	Configure Database	Financial Reporting
02:39	00:00	Configure Financial Reporting RMI Ports	Financial Reporting
02:39	01:06	Configure	Financial Management
02:40	00:00	Register with Shared Services	Financial Management
02:40	00:09	Configure DCOM	Financial Management
02:40	00:18	Configure Database	Financial Management
02:41	00:04	Configure Application Server	Financial Management
02:41	00:00	Configure Application Cluster	Financial Management
02:41	00:44	Configure Web Server	Financial Management
02:42	09:28	Deploy to Application Server	ERPI Web Application
02:51	00:00	Deploy to Application Server	EPMA Web Application
02:51	00:00	Deploy to Application Server	Disclosure Management Web Application
02:51	00:00	Deploy to Application Server	Financial Close Management Web Application
02:51	00:00	Deploy to Application Server	Account Reconciliation Management Web Application
02:51	00:00	Deploy to Application Server	Web Analysis Web Application
02:51	00:00	Deploy to Application Server	Financial Reporting Web Application
02:51	00:00	Deploy to Application Server	Financial Management Web Application
02:51	00:00	Deploy to Application Server	Financial Management Web Service
02:51	00:00	Processing Re-registration Script	Reporting and Analysis

scl34279 - 06/17/2013

This table lists configuration history of activities on the specified date and server combination.

Start Time	Duration	Action	Component
03:31	00:00	Stop	EPM Configurator
03:41	00:00	Start	EPM Configurator
03:42	01:09	Deploy to SOA	Financial Close Management
03:44	00:11	Deploy to SOA	Account Reconciliation
03:44	00:07	Deploy to SOA for ERPI	Account Reconciliation

scl20048 - 06/17/2013

This table lists configuration history of activities on the specified date and server combination.

Start Time	Duration	Action	Component
03:50	01:03	Configure Web Server	Hyperion Foundation

Is there a step-by-step guide for deploying EPM System manually to WebSphere Application Server for EPM release 11.1.2.2?

Yes, a document “IBM WebSphere Manual Deployment Guide for EPM System Release 11.1.2.2” is published in the EPM/BI whitepaper library here:

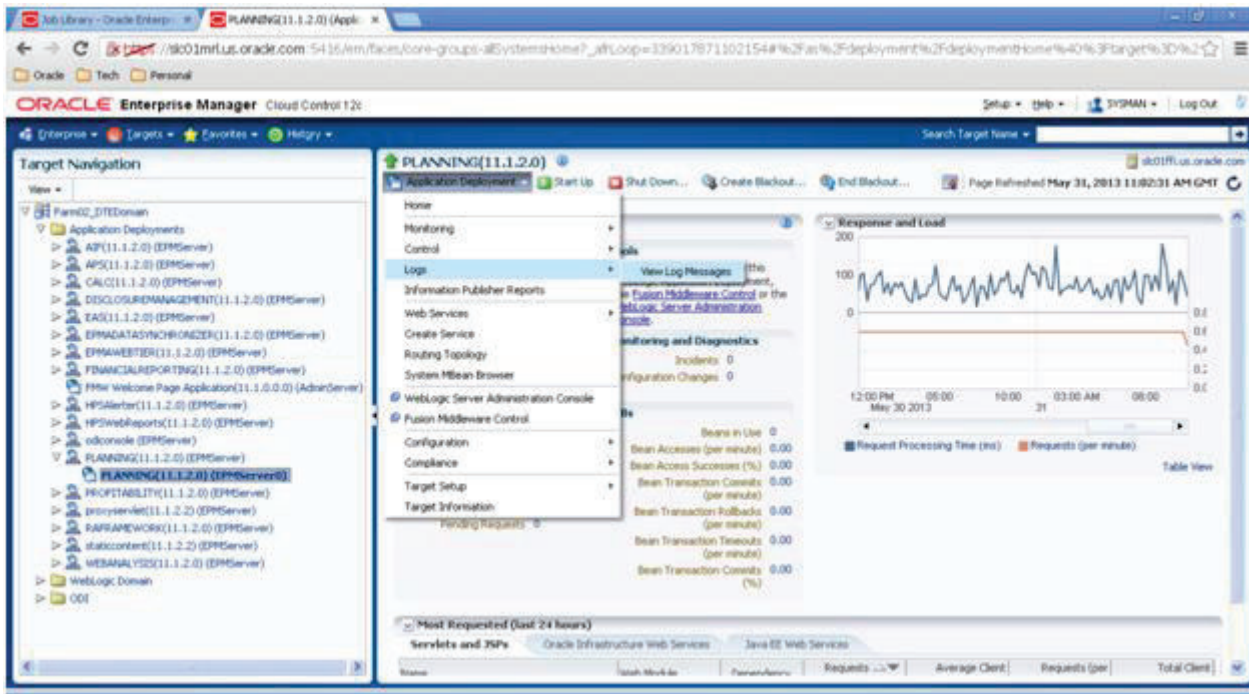
<http://www.oracle.com/technetwork/middleware/bi-foundation/resource-library-090986.html>

Is there any information available on monitoring an EPM System Release 11.1.2.3 deployment from Oracle Enterprise Manager 12c?

Yes, there is a whitepaper that describes how to set up Oracle Enterprise Manager 12c for monitoring EPM System Release 11.1.2.3 products:

[Monitoring Oracle Enterprise Performance Management System Release 11.1.2.3 Deployments from Oracle Enterprise Manager 12c](#)

Here is a sample screen of Enterprise Manager Cloud Control managing an EPM instance:



In EPM System Release 11.1.2.3, can multiple versions of Financial Reporting Studio be installed on the same client machine?

Starting with Financial Reporting Studio Release 11.1.2.3, users can install more than one version of Financial Reporting Studio (for example a test and a development version) on one client machine. The installed versions of Financial Reporting Studio are displayed in the Microsoft Windows Start menu folder and shortcuts, as well as the Uninstall panel. Before accessing one of multiple Financial Reporting Studio versions, make sure that the versions are installed on the client machine.

Note: Each Financial Reporting Studio version installed on a client machine must be installed in a different directory.

► To install Financial Reporting Studio:

- 1 In EPM Workspace, select Tools, then Install, and then Financial Reporting Studio.
- 2 After the download is complete, close all browsers and then run the Financial Reporting Studio installer as an administrator.

Note: If a machine has multiple versions of Financial Reporting Studio installed, only one release can be accessed at a time.

► To access a Financial Reporting Studio version:

- 1 From the Microsoft Windows Start menu, select Oracle, then Financial Reporting Studio <version number>, and then Register Financial Reporting Studio <version number>.
- 2 From the Microsoft Windows Start menu, select Oracle, then Financial Reporting Studio <version number>, and then Register Financial Reporting Studio <version number>, to launch the Oracle Hyperion Financial Reporting Studio version registered in the previous step.

In EPM System Release 11.1.2.2, how is the Financial Reporting Studio connection to the server secured?

Transport of credentials is always encrypted with AES encryption. Full SSL is supported, and it is documented on page 33 in the *Oracle Enterprise Performance Management System Security Administration Guide* located at http://docs.oracle.com/cd/E17236_01/epm.1112/epm_security_1112200.pdf.

Is there a step-by-step document that I can use to install and configure a simple Financial Close Management development environment for EPM System Release 11.1.2.3?

Yes, if you need to build a simple development environment or just need to learn the Financial Close Management installation and configuration flow, you can follow the steps in the document titled *Rapid Deployment of Oracle Hyperion Financial Close Management Domain for Release 11.1.2.3.000*. The entire installation process, including downloading zip files and installation of the Oracle database, takes approximately six hours.

In EPM System Release 11.1.2.x with Financial Close Management installed, editing a taskflow gives a 404 error. The base exception seen in the Foundation Services log is:

```
java.lang.NoClassDefFoundError:  
org/apache/commons/dbcp/  
BasicDataSource. How do I resolve this issue?
```

This error occurs because SOA deployment modifies the WebLogic system classpath with `quartz-all-1.6.5.jar` and does not allow the actual version of `quartz.jar` and the dependent jars from the application classpath to load.

► To resolve this issue:

- 1 **Stop the Foundation Service.**
- 2 **Go to** `EPM_ORACLE_HOME/products/Foundation/AppServer/InstallableApps/common`.
- 3 **Open** `interop.ear` **and extract** `weblogic-application.xml` **in the** `META-INF` **folder.**
- 4 **In the** `weblogic-application.xml` **file, add the following:**

```
<prefer-application-packages>
  <package-name>org.quartz.*</package-name>
</prefer-application-packages>
```
- 5 **Copy the modified** `weblogic-application.xml` **to** `interop.ear\META-INF`, **and close to save the changes.**
- 6 **Go to** `EPM_ORACLE_INSTANCE/domains/EPMSystem/serversFoundationServices0tmp/_WL_user/SHAREDSERVICES_11.1.2.0/yidcyl/` **and delete the** `war` **folder.**
- 7 **Restart the Foundation Service.**

In EPM System Release 11.1.2.2, on a clean Solaris (11.1) EPM System installation, I am unable to configure Oracle HTTP Server. What could be the issue?

In a Release 11.1.2.2.0 installation of EPM System on Solaris, the installation proceeds with no errors; however, the configuration of Oracle HTTP Server fails.

EPM System Configurator shows the following trace:

```
[2013-06-27T16:42:57.993-07:00] [EPMCFG] [ERROR] [EPMCFG-07236]
@ [oracle.EPMCFG] [tid: 19] [ecid: 0000Jy818ZaCGvzqC0Q5US1HnCn7000004,0]
@ [SRC_CLASS: com.hyperion.cis.config.ant.apache2.OHS2Configurator]
@ /u01/Oracle/Middleware/user_projects/epmsystem1/httpConfig/ohs/config/OHS/ohs_
@ component/httpd.conf wasn't found. OHS wasn't configured successfully, see
@ oraInventory logs for more details"
@ [2013-06-27T16:42:57.994-07:00] [EPMCFG] [ERROR] [EPMCFG-05364]
@ [oracle.EPMCFG] [tid: 19] [ecid: 0000Jy818ZaCGvzqC0Q5US1HnCn7000004,0]
@ [SRC_CLASS:
@ com.hyperion.foundation.config.WebServerConfigurationTaskProcessor] Error in
@ web server configuring:[[
@ com.hyperion.cis.config.HttpConfigurationException: File not found
@ at
@ com.hyperion.cis.config.ant.apache2.OHS2Configurator.throwIfNotExist(OHS2Conf
@ gurator.java:354)
@ at
@ com.hyperion.cis.config.ant.apache2.OHS2Configurator.prepareConfig(OHS2Configu
@ rator.java:277)
```

The `oraInventory` log `install<date-time-stamp>.out` file shows the following trace:

```
CONFIG] [Web Tier Configuration] [Create and Start AS Instance
(ohsInstance493630522)]:Creating Oracle Instance directories...
```



```

[CONFIG] [Web Tier Configuration] [Create and Start AS Instance
(ohsInstance493630522)]:Recording OPMN ports reservations...
[CONFIG] [Web Tier Configuration] [Create and Start AS Instance
(ohsInstance493630522)]:Bootstrapping OPMN configuration files...
[CONFIG] [Web Tier Configuration] [Create and Start AS Instance
(ohsInstance493630522)]:Instantiating opmnctl for direct usage...
[CONFIG] [Web Tier Configuration] [Create and Start AS Instance
(ohsInstance493630522)]:Skipping instance registration
opmnctloracle.as.config.ProvisionException: Unable to start opmn
    at
oracle.as.install.webtiercd.webtierconfig.util.CreateASInstance.createASInstanceWrapper(
CreateASInstance.java:153)
    at
oracle.as.install.webtiercd.webtierconfig.util.CreateASInstance.createStandaloneASInstan
ce(CreateASInstance.java:84)
    at
oracle.as.install.webtiercd.webtierconfig.actions.WebtierConfigurationAction.configureIn
stanceStandalone(WebtierConfigurationAction.java:590)
    at
oracle.as.install.webtiercd.webtierconfig.actions.WebtierConfigurationAction.configureSt
andalone(WebtierConfigurationAction.java:441)
    at
oracle.as.install.webtiercd.webtierconfig.actions.WebtierConfigurationAction.doExecute(W
ebtierConfigurationAction.java:174)
    at
oracle.as.install.engine.modules.configuration.client.ConfigAction.execute(ConfigAction.
java:371)
    at
oracle.as.install.engine.modules.configuration.action.TaskPerformer.run(TaskPerformer.ja
va:88)
    at
oracle.as.install.engine.modules.configuration.action.TaskPerformer.startConfigAction(Ta
skPerformer.java:105)
    at
oracle.as.install.engine.modules.configuration.action.ActionRequest.perform(ActionReques
t.java:15)
    at
oracle.as.install.engine.modules.configuration.action.RequestQueue.perform(RequestQueue.
java:64)
    at
oracle.as.install.engine.modules.configuration.standard.StandardConfigActionManager.star
t(StandardConfigActionManager.java:160)
    at
oracle.as.install.engine.modules.configuration.boot.ConfigurationExtension.kickstart(Con
figurationExtension.java:81)
    at
oracle.as.install.engine.modules.configuration.ConfigurationModule.run(ConfigurationModu
le.java:86)
    at java.lang.Thread.run(Thread.java:662)
Caused by: java.lang.Exception: Unable to start opmn
    at
oracle.as.install.webtiercd.webtierconfig.util.CreateASInstance.startOpmn(CreateASInstan
ce.java:228)
    at
oracle.as.install.webtiercd.webtierconfig.util.CreateASInstance.createASInstanceWrapper(
CreateASInstance.java:151)
    ... 13 more

```

```
stadrtall:.s o.startil:ng opmn and all[CONFIG] FAILED:Create and Start AS Instance
(ohsInstance493630522)
managed processes...
opmopmnctl startall: failed.
n: fatal: libclntsh.[CONFIG] [Web Tier Configuration] [Create and Start AS Instance
(ohsInstance493630522)]:Unable to start opmn
so.[CONFIG] FAILED:Create and Start AS Instance (ohsInstance493630522)
```

On Solaris 11, /usr/ccs/bin/as is not available by default. The Assembler package “developer/assembler” must be installed.

To install package in Solaris 11
=====
Syntax to install package

```
pkg install pkg-fmri
# pkg install developer/assembler
```

Installing a Package From a Specific Publisher

```
# pkg://solaris/developer/assembler
```

Installing a Specific Version of a Package

```
# pkg://solaris/developer/assembler@0.5.11,5.11-0.175.1.0.0.19.0:20120625T151738Z
```

For additional details, see Bug 17038191 and Oracle HTTP Server Bug 17186145.

EPM System Release 11.1.2.2 has been deployed to IBM WebSphere 7.0.0.25. The login to Shared Services works, but EPM Workspace does not even display the logon page. What is the issue?

Additional details: EPM System Release 11.1.2.2.0 has been deployed on IBM Websphere 7.0.0.25 (ND). Foundation Services has been deployed manually using the was_config_epm.sh script as documented in <http://www.oracle.com/technetwork/middleware/bi-foundation/epm-websphere-manual-deploy11122-1887166.pdf>. You can access Shared Services, but cannot access the EPM Workspace web application.

The SystemOut.log for Foundation Server shows the following stack trace:

```
[7/9/13 17:10:19:038 SGT] 00000026 webapp E com.ibm.ws.webcontainer.webapp.WebApp
logServletError SRVE0293E: [Servlet Error]-[/index.jsp]: java.lang.NullPointerException
at oracle.security.jps.was.JpsWebSphereSubjectResolver.isOpssSubject(JpsWebSphere
SubjectResolver.java:146)
    at
    oracle.security.jps.was.JpsWebSphereSubjectResolver.resolveJpsSubject(JpsWebSp
hereSubjectResolver.java:122)
    at
    oracle.security.jps.internal.jaas.JpsAbsSubjectResolver.resolveSubject(JpsAbsS
bjectResolver.java:214)
    at oracle.security.jps.ee.http.JpsAbsFilter.doFilter(JpsAbsFilter.java:161)
    at oracle.security.jps.ee.http.JpsFilter.doFilter(JpsFilter.java:71)
```

```

        at
com.ibm.ws.webcontainer.filter.FilterInstanceWrapper.doFilter(FilterInstanceWrapper.java:188)
        at
com.ibm.ws.webcontainer.filter.WebAppFilterChain.doFilter(WebAppFilterChain.java:116)
        at com.hyperion.bpm.ServletFilter.doFilter(ServletFilter.java:92)
        at com.hyperion.bpm.logon.SessionBlockFilter.doFilter(SessionBlockFilter.java:
52)

```

► To resolve this issue:

1 Stop the Foundation Server.

2 Edit \$WAS_DEPLOY_DIR/config/<EPMSysCell>/Workspace.ear/Workspace.war/WEB-INF/web.xml and remove the JpsFilter and the JpsFilter mapping.

JPS Filter section

```

<filter>
  <description>Filter for Fusion JPS/OSSO integration</description>
  <display-name>JPS Filter</display-name>
  <filter-name>JpsFilter</filter-name>
  <filter-class>oracle.security.jps.ee.http.JpsFilter</filter-class>
</filter>

```

JPSFilter mapping

```

<filter-mapping>
  <filter-name>JpsFilter</filter-name>
  <url-pattern>*.jsp</url-pattern>
  <servlet-name>logon</servlet-name>
  <servlet-name>prefs</servlet-name>
  <servlet-name>BPMContext</servlet-name>
  <servlet-name>RedirectServlet</servlet-name>
  <servlet-name>Repository</servlet-name>
  <servlet-name>DynamicHelp</servlet-name>
  <servlet-name>StatusServlet</servlet-name>
  <servlet-name>RefreshServlet</servlet-name>
  <servlet-name>SmartViewProvidersServlet</servlet-name>
  <servlet-name>ReqInfoServlet</servlet-name>
</filter-mapping>

```

3 Restart the Foundation Server.

EPM System Foundation Database configuration fails after a maintenance upgrade from Release 11.1.2.1 to Release 11.1.2.2 with the following errors in the log files. How can I resolve this?

```

[2013-08-27T11:49:00.016-07:00] [EPMREG]
[TRACE:32] [EPMREG-51054]
[oracle.EPMREG.REG] [tid: 27]
[ecid:0000K316YppC8x5_fPJb6_1I7FCo000008,0]
[SRC_CLASS: com.hyperion.hit.registry.RegistryConnection] [SRC_METHOD: createRegistry]
Script Line Being Executed is INSERT INTO

```

```

CSS_PROVISIONING_INFO (APPLICATION_ID,
MEMBER_IDENTITY, ROLE_IDENTITY, MEMBER_TYPE,
CREATEDBY, CREATEDTIMESTAMP,
LOWER_APPLICATION_ID, LOWER_MEMBER_IDENTITY,
LOWER_ROLE_IDENTITY) VALUES ('HUB:1111',
'native://DN=cn=911,ou=People,dc=css,dc=hyperion,
dc=com?USER', 'native://DN=cn=
HUB:24,ou=HUB,ou=Roles,dc=css,dc=hyperion,dc=com?
ROLE',1, 'hss system', sysdate,
LOWER('HUB:1111'),
LOWER('native://DN=cn=911,ou=People,dc=css,
dc=hyperion,dc=com?USER'), LOWER('native://DN=cn=HUB:24,
ou=HUB,ou=Roles,dc=css,dc=hyperion,dc=com?ROLE')).
[2013-08-27T11:49:02.559-07:00] [EPMREG]
[TRACE:32] [EPMREG-51302] [oracle.EPMREG.REG]
[tid: 27]
[ecid:0000K316YppC8x5_fPjb6_1I7FCo000008,0]
[SRC_CLASS: com.hyperion.hit.registry.RegistryConnection]
[SRC_METHOD: createRegistry]
Error executing the batch and the exception is {0}
[[ java.sql.BatchUpdateException: error occurred during batching:
ORA-00955: name is already used by an existing object

```

This could happen if you applied Shared Services Patch 14142678 (11.1.2.1 PSU 600) in the Release 11.1.2.1 environment.

► To resolve this problem:

- 1 **Connect to the Foundation Services database using any SQL client.**
- 2 **Execute the following SQL before running EPM System Configurator:**

```
DROP SEQUENCE CSS_DELTA_TRANSACTION_ID_SEQ
```

This can also happen if you upgrade to Release 11.1.2.3 from 11.1.2.1.600; the same solution applies to this case as well.

After upgrading EPM System from Release 11.1.2.1.600 to the 11.1.2.3 maintenance release, I am not able to start Shared Services. What could be the problem?

If the Shared Services database schema is not upgraded completely, and you have a DSF initialization error ORA-00904: "PROCESSNAME": invalid identifier in the Shared Services log file, this indicates that the Foundation Service upgrade scripts failed to execute, and the Shared Services schema was not upgraded to Release 11.1.2.3.

► To resolve this issue:

- 1 **Restore the Shared Services database to the Release 11.1.2.1.600 database backup taken before attempting to upgrade.**

2 Execute the following SQL scripts based on the database type configured from the SQL client connecting to the restored Shared Services database:

- For an Oracle database:
 - DROP INDEX CSS_DELTA_TRANSACTION_IDX;
 - DROP SEQUENCE CSS_DELTA_TRANSACTION_ID_SEQ;
 - DROP TABLE CSS_GROUP_CACHE_DELTA CASCADE CONSTRAINTS;
 - CREATE TABLE CSS_GROUP_CACHE_DELTA (GROUP_IDENTITY VARCHAR2(200 BYTE) NOT NULL, ACTION_TYPE NUMBER(1, 0), VALUE1 VARCHAR2(256 BYTE), VALUE2 VARCHAR2(1000 BYTE), UPDATEDTIMESTAMP TIMESTAMP(9) WITH TIME ZONE DEFAULT (SYSTIMESTAMP) NOT NULL);
- For an MS-SQL Server database:
 - DROP INDEX CSS_DELTA_TRANSACTION_IDX ON CSS_GROUP_CACHE_DELTA;
 - DROP TABLE CSS_GROUP_CACHE_DELTA;
 - CREATE TABLE CSS_GROUP_CACHE_DELTA (GROUP_IDENTITY NVARCHAR(200) NOT NULL, ACTION_TYPE NUMERIC(1, 0), VALUE1 NVARCHAR(256), VALUE2 NVARCHAR(1000), UPDATEDTIMESTAMP DATETIME NOT NULL);
- For an IBM DB2 database:
 - DROP INDEX CSS_DELTA_TRANSACTION_IDX;
 - DROP TABLE CSS_GROUP_CACHE_DELTA;
 - CREATE TABLE CSS_GROUP_CACHE_DELTA (GROUP_IDENTITY VARCHAR(200) NOT NULL, ACTION_TYPE NUMERIC(1, 0), VALUE1 VARCHAR(256), VALUE2 VARCHAR(1000), UPDATEDTIMESTAMP TIMESTAMP NOT NULL);

3 Commit the transaction.

4 Reuse the database to upgrade Release 11.1.2.1.600 to Release 11.1.2.3.

In EPM System Release 11.1.2.3.x, the time it takes to log in to Essbase on Oracle Linux 5 (Exalytics) is inconsistent. What could be the problem?

After a period of inactivity, the firewall discards the connections, and establishing a new connection takes time.

To resolve this issue, enable TCP keep alive on the server so that the firewall does not discard connections even if there is long period of application usage inactivity.

3

User and System Security

In This Chapter

In EPM System Release 11.1.2.1, I want to restrict the users and groups that are visible to a user based on the business unit that the user belongs to. For example, in Reporting and Analysis, when a user assigns privileges in the Edit Permission user interface, the user should see a list of users and groups that are in the same business unit as the user assigning the privilege. How can I set this up in EPM System security?85

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In EPM System Release 11.1.2.1, I want to restrict the users and groups that are visible to a user based on the business unit that the user belongs to. For example, in Reporting and Analysis, when a user assigns privileges in the Edit Permission user interface, the user should see a list of users and groups that are in the same business unit as the user assigning the privilege. How can I set this up in EPM System security?

EPM System security has a mode called Delegated Management, which the EPM System security administrator can enable in the Shared Services security configuration. Then the Shared Services administrator can create delegated lists for each business unit, assign a business unit leader as the manager of this list, and delegate the administrator of this list. The user who belongs to this list will only see the users in this list when performing a search for provisioning or assigning access within the individual EPM System products.

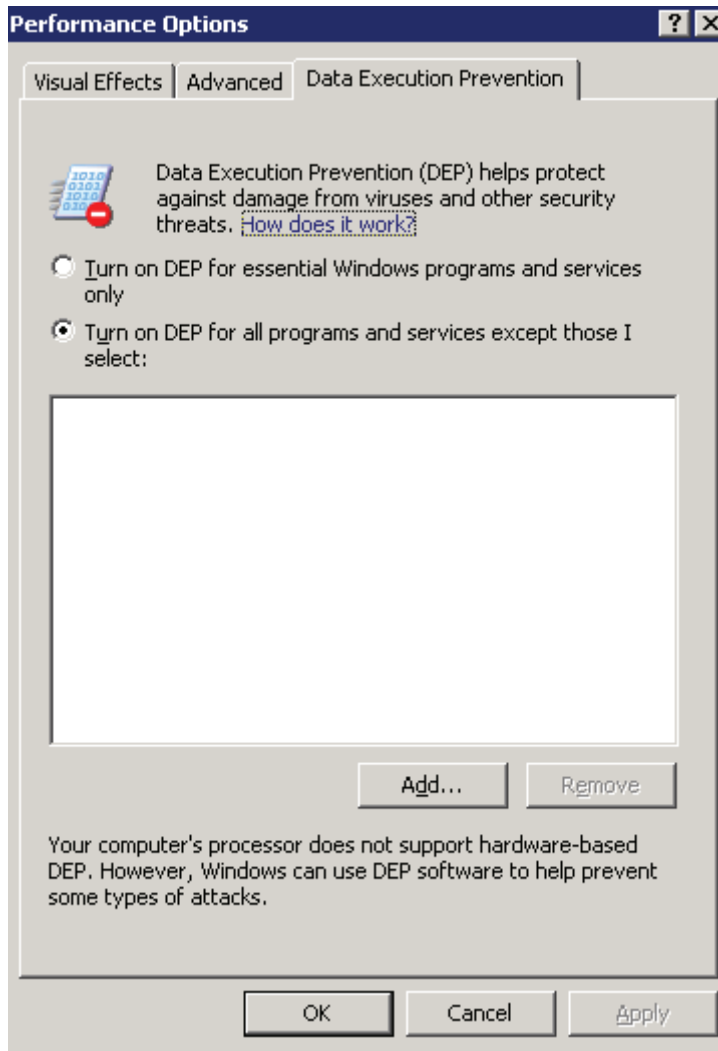
For more information, see the “Delegated User Management” chapter found here: http://docs.oracle.com/cd/E17236_01/epm.1112/hss_admin.pdf.

I upgraded my EPM System Release 9.3.1 to Release 9.3.3, and when I run the Import/Export Utility to provision users to Essbase applications, these users cannot access the Essbase cubes. If I provision users through the Shared Services Console, however, they can access the cubes. Is this a bug with the Release 9.3.3 Import/Export Utility?

The Import/Export Utility in Release 9.3.3 is incorrectly packaged. The `css.jar` file packaged within this utility is from Release 9.3.1. Replace the `css-9_3_1.jar` in this utility (in the `importexport/lib` directory) with the `css-9_3_1.jar` from the `Hyperion_Home/common/CSS/9.3.1/lib` directory.

Are there any recommendations for using Microsoft's Data Execution Protection service with EPM System services?

In Windows 2003 Service Pack 2, a component was introduced called Data Execution Protection (DEP). This service monitors applications and will terminate them if it feels there is a breach or anything questionable with the service. The DEP service works with Microsoft services, but can cause issues with non-Microsoft applications. The recommendation is to turn off DEP on all Hyperion Servers.



In EPM System Release 11.1.1.3, when I try to access Essbase applications under the Essbase application group in Shared Services, I receive the error - "Error Loading Adf https://myServer.myCompany.com:19000/interop/modules/com/hyperon/h...Instance=7' for module with id: cas.eas9-0-0.app". Port 19000 is configured as the SSL port. All services/components are working fine and re-directions are also configured as required. What could be the problem?

This is a defect.

► To work around this issue:

1 In the `HYPERION_HOME/common/httpServers/Apache/2.0.59/conf/HYSL_WebLogic.conf` file, update the `LocationMatch` string with the following:

a. Change

```
<LocationMatch /eas/*>
```

to

```
<LocationMatch ^/eas/*>
```

b. Change:

```
<LocationMatch /easconsole>
```

to

```
<LocationMatch ^/easconsole>
```

2 Save the changes and restart services.

I have EPM System Release 9.2.1 and am using the NTLM provider, and I want to upgrade to Release 11.1.2.1. I understand that NTLM is not supported in 11.1.2.1. How do I properly migrate my data to 11.1.2.1?

If you use the NTLM provider in Release 9.2.1, you cannot directly upgrade to 11.1.2.1. Instead, you should first upgrade to Release 11.1.1.3 and make sure that everything is working properly. Then migrate your NTLM data to another directory, usually MSAD, by following the instructions provided in the 11.1.1.3 [Security Administration Guide](#). Then upgrade from 11.1.1.3 to 11.1.2.1. The same procedure applies to 9.3.3 deployments using the NTLM provider as well.

In EPM System Release 11.1.2.1, I am using Kerberos with EPM System fronted by Oracle Access Manager (OAM) for single sign-on. Can I use Native Directory authentication?

In this environment, you cannot use Native Directory users because Kerberos and OAM will not work with EPM System native users. MSAD users must be provisioned in this environment. However, the MSAD users can be grouped into EPM System native groups for provisioning and access control purposes.

I configured MSAD in Shared Services Console and when I search for users, I see disabled users as well. How can I filter them out and only see non-disabled users?

In all EPM System 11.1.x releases, you can add `(!(userAccountControl:1.2.840.113556.1.4.803:=2))` in the user filter section within the MSAD provider configuration as shown below, which will filter out the disabled users.

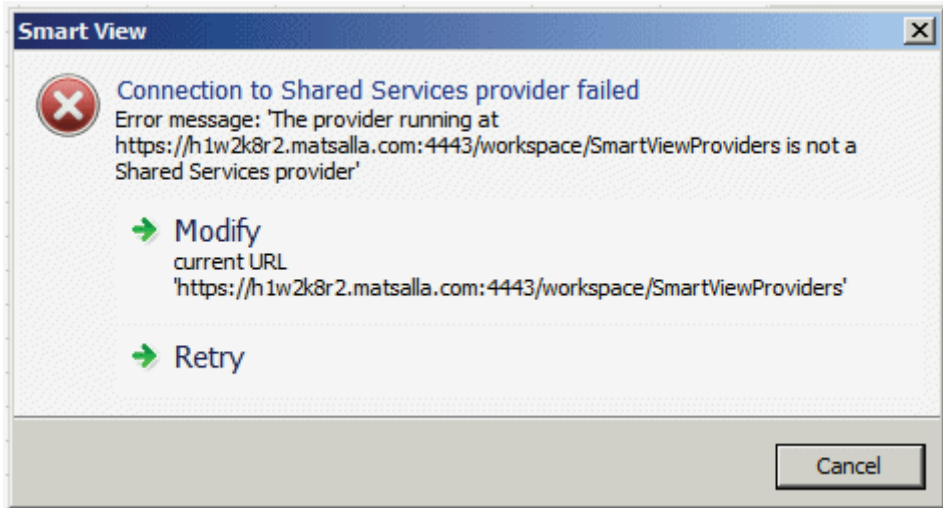
In EPM System Release 11.1.2.1, in Shared Services Console, I can only search for the first 4 digits in a username. When doing the search on 5 digits, no users are displayed. For example, “U026*” displays all users in the group starting with “U026”, but “U0266*” displays no users even though I should see some users that begin with “U0266”. What is the problem?

This is a defect and is fixed in Release 11.1.2.2. When the username is something like “U026647”, it is converted to “\U026647” since “U” matches the set of characters in the regular expression code within Shared Services, while the numbers don’t. “\uFFFF” denotes a Unicode character; if 4 or more hex numbers follow the “\u”, it is resolved to a Unicode character and the search fails. Using anything less than 4, or omitting the “U” from the search filter, would return the matching users. Also, there is a problem with users starting with “X”. For example, if there is a user “X500”, and if you are searching with “X50*”, the search won’t return any users because “\xFF” denotes a hex number.

In EPM System Release 11.1.2.2, I renamed native user “admin” to “epm_admin”, and all my Interactive Reporting jobs started failing to run with the error: The execution of the Interactive Reporting job failed. Recommended Action: Verify that all parameters are valid. Before renaming this user, everything worked fine. Can’t I rename the “admin” user?

You can rename the “admin” user per se. However, there is a bug and thus the “admin” user is needed. The solution is to either rename the “epm_admin” user back to “admin”, create a new native user by the name of “admin”, or have a user called “admin” in your external directory. Also, assign the “Reporting and Analysis Global Administrator” role to this user.

I am using Oracle Access Manager 11g as the single sign-on engine for EPM System products in Release 11.1.2.x, and I am getting the error message “Connection to Shared Services Provider Failed”. What is the issue?



You need to upgrade Smart View to Release 11.1.2.2.300.

I am using Oracle Access Manager, and I notice that static content such as images and Java scripts are not caching on the browser, resulting in poor performance. What could be the issue?

By default, Oracle Access Manager sets the Cache-Control: no-cache and Cache Pragma: no-cache headers. This is defined in the Oracle Access Manager Agents configuration under System Configuration.

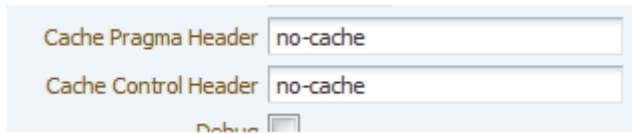
► To remove these headers:

- 1 Log in to Oracle Access Manager Administration Console as an administrator.
- 2 In the top left of the console, click the **System Configuration** tab.
- 3 In the left pane, click **Access Management Setting**.
- 4 Expand **SSO Agents**.
- 5 Choose **OAM Agents**.
- 6 In the right pane, search for the OAM webgate agent created for the EPM System deployment.

There could be more than one depending on the deployment.

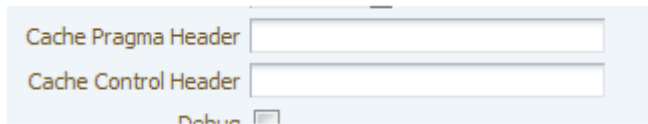
- 7 Double-click the OAM agent.

The **Cache Pragma Header** and **Cache Control Header** are populated with no-cache.



A screenshot of a configuration window for an OAM agent. It features two text input fields. The first field is labeled 'Cache Pragma Header' and contains the text 'no-cache'. The second field is labeled 'Cache Control Header' and also contains 'no-cache'. Below these fields is a 'Debug' checkbox which is currently unchecked.

- 8 Remove the no-cache value and leave the fields empty.



A screenshot of the same configuration window as above. The 'Cache Pragma Header' and 'Cache Control Header' fields are now empty. The 'Debug' checkbox remains unchecked.

- 9 Click **Save**.
- 10 Restart the Oracle HTTP Server where the Oracle Access Manager webgate is configured.
- 11 Have all users clear their browser cache and log in to Workspace again.

Performance will be improved due to the caching of static files in the browser.

Does EPM System Release 11.1.2.2 support Oracle Access Manager 11gR2?

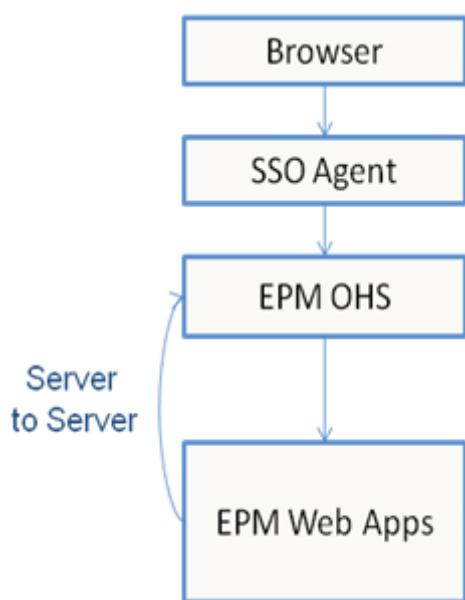
EPM System Release 11.1.2.2 supports Oracle Access Manager 11gR2 for all the server components. Smart View client supports Oracle Access Manager 11gR2 with the 11.1.2.2.300 patch. This Smart View patch can be downloaded from Oracle Software Delivery Cloud and must be applied to all the client machines using Smart View.

In EPM System Release 11.2.2.x, there are a number of URLs that need to be unprotected in order to use Oracle Access Manager and other web-based, single sign-on agents that are documented in the Security Administration Guide. Why are these URLs unprotected, and do they pose a security risk?

These URLs are unprotected for various technical reasons. Many are unprotected because they are server-to-server calls and do not have access to the browser cookie required for proper authentication with the agent. All these URLs are audited before each release and are secured by other means; therefore, unprotected them does not pose any security risk to the deployment.

In EPM System Release 11.2.2.x, there are a number of URLs that need to be unprotected in order to use Oracle Access Manager and other web-based, single sign-on agents that are documented in the Security Administration Guide. Is there a way to reduce the number of unprotected URLs?

You can reduce the number of unprotected URLs if the single sign-on agent is running on a different web server than EPM System's Oracle HTTP Server. In this type of deployment, all server-to-server communication can be routed back to EPM System's Oracle HTTP Server and not go through the single sign-on agent as shown in the following diagram.



In order to accomplish this, you can use EPM System Configurator to configure the Logical Web Address for all web applications to the EPM System Oracle HTTP Server. Once that configuration is complete, the following URLs can be removed from the unprotected list, since they are server to server calls.

EPMA

```
awb/ces.executeAction.do  
/awb/appmanager.deployStatusUpdate.do  
/awb/jobstask.updateJobStatus.do  
/hyperion-bpma-server  
/awb/integration.updateApplicationDeployStatus.do/  
/DataSync/services*  
/awb/lcm.executeAction.do
```

Financial Management

```
/hfmapplicationservice  
/oracle-epm-fm-webservices
```


/hfm/EIE/EIListener.asp
/hfmlcmervice

Performance Scorecard

HPSWebReports/action/lcmCallBack

Planning

/HyperionPlanning/servlet/HspLCMServlet
/HyperionPlanning/servlet/HspAppManagerServlet

Profitability and Cost Management

/profitability/cesagent
/profitability/lcm
/profitability/control
/profitability/HPMApplicationListener

Shared Services

/framework/lcm/HSSMigration
/interop/Audit*
/interop/framework/*

Is there a step-by-step guide on how to install and configure Oracle Access Manager (OAM) to be used with EPM System products?

Yes, a document “Setting up EPM System Resources for SSO Using Oracle Access Manager 11g Webgate for Oracle HTTP Server” is published in the EPM/BI whitepaper library here:

<http://www-content.oracle.com/technetwork/middleware/bi-foundation/epm1112x-oam11gwebgate-ohs-1950487.pdf>

In EPM System Release 11.1.2.0, I have several native users whose names start with “n_”. When I use Lifecycle Management to export native users, none of these users (whose names start with “n_”) show up. Is this a bug?

This is an issue in Release 11.1.2.0. Since the underscore () is a special character, users whose names contain an underscore cannot be exported. The issue is fixed in Release 11.1.2.1 and higher. The workaround is to not use any underscore characters in user names.

I have a custom authentication class that worked in EPM System Release 11.1.2.1, but when I upgraded to Release 11.1.2.2, it stopped working. What could be the problem?

When this occurs, you receive the following error in `SharedServices_Security.log` when starting Foundation Services, and Foundation Services fails to start:

```
java.lang.ClassNotFoundException:  
com.myCompany.custom.authentication.login.CustomLogon  
java.net.URLClassLoader$1.run(URLClassLoader.java:202)  
java.net.URLClassLoader.findClass(URLClassLoader.java:190)  
java.lang.ClassLoader.loadClass(ClassLoader.java:306)  
java.lang.ClassLoader.loadClass(ClassLoader.java:247)  
java.lang.Class.forName0(Native Method)  
java.lang.Class.forName(Class.java:169)
```

After the custom class reference is removed, however, Foundation Services starts.

► To fix this issue:

1 Copy the CustomAuth.jar file that you created with your custom authentication class to:

```
MIDDLEWARE_HOME/user_projects/domains/DOMAIN_NAME/lib
```

Typically, this would be:

```
C:/Oracle/Middleware/user_project/domains/EPMSysstem/lib
```

2 If you are using log4j in your custom class, delete all references to log4j.

3 Restart Foundation Services.

In EPM System Release 11.1.2.x, how do I enable the EPM Server Shared Services Security or Shared Services Import Export log level in TRACE mode?

► To enable the log in trace mode:

1 Back up logging.xml.

In a compact deployment:

```
EPM_ORACLE_INSTANCE\domains\EPMSysstem\config\fmwconfig\servers  
\EPMServer0
```

In a regular deployment:

```
EPM_ORACLE_INSTANCE\domains\EPMSysstem\config\fmwconfig\servers  
\FoundationServices0
```

2 Update logging.xml for the epmcss-handler component:

- a. Add an extra “0” to maxFileSize and maxLogSize to generate the logs in a single file.

```
<log_handler class="oracle.core.ojdl.logging.ODLHandlerFactory" name="epmcss-  
handler">  
<property name="path" value="${log.directory}/SharedServices_Security.log" />  
<property name="maxFileSize" value="1000000" />  
<property name="maxLogSize" value="5000000" />  
<property name="useSourceClassAndMethod" value="true" />  
</log_handler>
```

- b. Modify the log level to “TRACE:32” for epmcss-handler:

```
<logger level="TRACE:32" name="oracle.EPMCSSL" useParentHandlers="false">  
<handler name="epmcss-handler" />  
</logger>
```

3 Update logging.xml for the epmie-handler component:

- a. Add an extra “0” to maxFileSize and maxLogSize to generate the logs in a single file.

```
<log_handler class="oracle.core.ojdl.logging.ODLHandlerFactory" name="epmie-  
handler">  
<property name="path" value="${log.directory}/SharedServices_Security.log" />  
<property name="maxFileSize" value="1000000" />  
<property name="maxLogSize" value="5000000" />  
<property name="useSourceClassAndMethod" value="true" />  
</log_handler>
```

- b. Modify the log level to “TRACE:32” for epmie-handler:

```
<logger level="TRACE:32" name="oracle.EPMIE" useParentHandlers="false">  
<handler name="epmie-handler" />  
</logger>
```

In EPM System Release 11.1.2.x, how do I download and update the EPM System Shared Services Security configuration file?

- To download the EPM System Shared Services Security configuration file:

- 1 On the Foundation Services Server (or any EPM Server), open a command shell.
- 2 In *EPM_ORACLE_INSTANCE*\bin, execute the following command:

```
epmsys_registry.bat view SHARED_SERVICES_PRODUCT/@CSSConfig
```

This generates an EPM System Shared Services Security configuration file named *Comp_1_SHARED_SERVICES_PRODUCT_CSSConfig* in *EPM_ORACLE_INSTANCE*\bin.

- To update the EPM System Shared Services Security configuration file:

- 1 Update the EPM System Shared Services Security configuration file with necessary changes to the file downloaded in the in the first procedure.

- 2 Update the EPM System Shared Services Security configuration file in the EPM System Registry by executing the following command:

```
epmsys_registry.bat updatefile SHARED_SERVICES_PRODUCT/@CSSConfig  
<full path to CSSConfig file on the file system>
```

In EPM System Release 11.1.2.x, adding an MSAD user to a native group in Shared Services Console results in error “EPMCSS-05261”. What could be the problem?

This error indicates that one or more external members of the group, whose unique identities are persisted in Shared Services Native Directory as a member of a group, do not exist in the external directories. These users may have been deleted from the external directories or may have been recreated with a different identity, thus rendering the persisted identities in Shared Services as stale identities.

► To resolve this issue:

- 1 Log in to Shared Services.
- 2 Export the Groups artifact found under Native Directory in the artifact listing screen.
- 3 Import the exported Groups artifact back in to the system.

Note: Before importing the exported group artifact, review which user identities are missing.

In EPM System Release 11.1.2.1, active directory users cannot log in to Essbase even though they were provisioned indirectly. What could be the problem?

Login works when the users are added again to the appropriate provisioned group. But the issue reoccurs when Essbase is restarted. In addition, an “java.lang.OutOfMemoryError: Java heap space” error is displayed.

► To resolve this issue:

- 1 Stop Essbase server.
- 2 Update the Essbase JVM heap size.
 - If you use OPMN to start Essbase, go to `MIDDLEWARE_HOME\user_projects\epmsystem1\config\OPMN\opmn` and set or update the minimum and maximum heaps parameters in the `opmn.xml` file found under `<process-type id="EssbaseAgent" module-id="ESS">` `<environment>` as follows:
 - `<variable id="ESS_CSS_JVM_OPTION4" value="-Xms256M"/>`
 - `<variable id="ESS_CSS_JVM_OPTION5" value="-Xmx1024M"/>`

If `ESS_CSS_JVM_OPTION4` and `ESS_CSS_JVM_OPTION5` is already in use, set this value for the next available `ESS_CSS_JVM_OPTION`. For example, `ESS_CSS_JVM_OPTION9`.

- If a startup script is used to start Essbase, set the above parameters in the `setEssbaseEnv.bat | .sh` file.

3 Start Essbase server.

See https://blogs.oracle.com/pa/entry/epm_11_1_2_how1 for more information.

In EPM System Release 11.1.1.x and 11.1.2.x, when using Smart View with an Essbase connection to view the Performance Management Planning application, after running “create security filters” or using the Performance Management batch client to redeploy, the security is lost and Novell e-Directory users cannot access the application. What could be the problem?

This is happening because security filters are deleted from Essbase at the same time that Novell e-Directory users are deleted from the Planning schema. Also, in the Planning application, Novell e-Directory users are not listed when trying to assign access on dimensions, even though the users' parent group is provisioned with the Planning application. In Shared Services Console, all such users are correctly listed as members of provisioned groups.

► To resolve this issue:

1 On the Foundation Services server (or any EPM Server), open a shell.

- In Release 11.1.1.x, change the directory to `HYPERION_HOME/common/config/9.5.0.0/bin`.

Typically, this is `C:/Hyperion/common/config/9.5.0.0/bin`.

- In Release 11.1.2.x, change the directory to `ORACLE_INSTANCE/bin`.

Typically `ORACLE_INSTANCE` is `D:/Oracle/Middleware/user_projects/epmsystem1`.

2 Use the following command to download the Shared Services Security Configuration file:

```
epmsys_registry.bat view SHARED_SERVICES_PRODUCT/@CSSConfig
```

This saves `Comp_1_SHARED_SERVICES_PRODUCT_CSSConfig` in the same directory.

3 In the same directory, edit and save `Comp_1_SHARED_SERVICES_PRODUCT_CSSConfig` and remove the white space from the URL:

```
<url>ldap://11.11.111.11:389/ou=xyz,o=abc</url>
```

4 Update the Shared Services Security Configuration file by executing the following command:

```
epmsys_registry.bat updatefile SHARED_SERVICES_PRODUCT/@CSSConfig  
<full path to CSSConfig file on the file system>
```

Note: On UNIX, the name of the utility is `epmsys_registry.sh`.

5 Restart Foundation Services and all other EPM System products.

In EPM System Release 11.1.2.1.600 with Active Directory configured in SSL mode, when I open a Financial Management application from Workspace, an error message "Could not authenticate the user" is displayed. The same thing happens when I try to log in using the Financial Management client. What is the problem?

The error message is displayed when the SSL handshake fails due to a faulty configuration of certificates in the Financial Management application server.

► To resolve this issue:

1 Back up the certificate store, `cacerts`, found in the following location on both the Application Server and Web Server tiers:

```
JAVA_HOME\jre\lib\security
```

2 Get appropriate certificates from MSAD.

3 Use the following commands to import the certificate that is part of JAVA running on the application server into `cacerts`.

- `JAVA_HOME\bin\keytool -import -alias <any string of your choice>-file <path to certificate> -keystore`

- `JAVA_HOME\jre\lib\security\cacerts -storepass changeit`

When prompted by keytool to trust the new certificate, enter "yes".

- `JAVA_HOME\bin\keytool -list -v -alias <string defined in the first command> -keystore JAVA_HOME\jre\lib\security\cacerts -storepass changeit`

This command ensures that the certificate is properly loaded into the store.

4 Restart all EPM System servers.

In EPM System Release 11.1.2.x, while configuring SSO using Custom Login Class, an error message “PMCSS-05014: Failed to save configuration page. Could not instantiate custom login class” is displayed, and EPM System is deployed into Websphere. What is the problem?

The error message is displayed when EPM System cannot find the Custom Login Class in the classpath.

► To resolve this issue:

- 1 **Package the custom login class** into `CustomAuth.jar`.
- 2 **Copy** `CustomAuth.jar` into `EPM_ORACLE_HOME/common/jlib/11.1.2.0/`.
- 3 **Restart Services.**

You can also complete the following steps to resolve the issue:

1. Add the custom login class to a jar of your choice; for example, `CustomLogin.jar`.
2. Copy `CustomLogin.jar` into `EPM_ORACLE_HOME/common/jlib/11.1.2.0/`.
3. Make an entry for this jar in the `MANIFEST` file of `EPM_ORACLE_HOME/common/jlib/11.1.2.0/ctg_custom.jar`.
4. Restart Shared Services.

In EPM System Release 11.1.2.x, when logging in with an Oracle external database user, the user intermittently gets limited or no access. Also, if a native directory administrator logs in and checks for external database groups, there are no groups shown in Shared Service console. Why does this happen?

In the `SharedServices_Security.log` file, the communication/connection error “`SQLRecoverableException: IO Error: Connection reset`” is displayed while querying the external database, and Shared Services Security is not able to authenticate the user or build the cache properly. As a result, group details are not displayed.

► To resolve this issue, use the patches below:

Original Release	Patch
11.1.2.1.600	11.1.2.1.601
11.1.2.2.000	11.1.2.2.303
11.1.2.3.000	11.1.2.3.500

Note: See the ReadMe.html file associated with the respective patch, before applying the patch.

EPM System supports native users, but can I use them in my production deployment? What does Oracle recommend?

Native Directory allows you to create native users for development and testing; however, Oracle strongly recommends that you use corporate directory users in production deployments. This is because password policies are not supported for native users. In addition, after you use the native users for development or testing, Oracle recommends that you disable or delete them and always use corporate directory users.

29308885 – Active Directory 2016 with EPM 11.1.2.4/27613549 - epmcSS-05318: failed to validate security configuration

In EPM System release 11.1.2.4, we are testing the Microsoft active directory 2016 in our client environment. When we configure MSAD with port 389, the configuration is successful. When we configure with SSL port 636, we end up with the below error. However, when we configure with SSL port 636 works fine with the earlier version of MSAD.

"EPMCSS-05318: Failed to validate Security Configuration. Failed to connect.
Invalid values for host or port. Enter valid value(s)"

Also, found below errors in SharedServices_Security.log

```
"[FoundationServices0] [ERROR] [EPMCSS-05409] [oracle.EPMCSS.CSS] [tid: 38] [userId: <anonymous>] [ecid: 0000Mmy9pBD5i^0Lzyw0yW1TNwLB00001I,0] [APP: SHAREDSEVICES#11.1.2.0] [SRC_CLASS: com.hyperion.css.spi.impl.msad.JNDIHelper] [SRC_METHOD: getDirectoryContext] Configuration validation failed for user directory . Error getting connection. simple bind failed: <hostname>:636. Verify MSAD user directory configuration."
```

In TRACE mode log

```
"javax.naming.CommunicationException: simple bind failed: <hostname>:636 [Root exception is javax.net.ssl.SSLHandshakeException: sun.security.validator.ValidatorException: PKIX path building failed: sun.security.provider.certpath.SunCertPathBuilderException: unable to find valid certification path to requested target"
```

This happens because the encryption mechanism used by MSAD2016 i.e. TLS 1.2 which is not supported in JDK160_35, which is by default shipped with EPM 11.1.2.4 release.

To resolve the issue, please follow the workaround below,

- 1) Upgrade EPM 11.1.2.4 JDK160_35 to JDK1.7.0_XXX
 - a. Upgrade jdk160_35 to jdk1.7.0_xxx using below link. The link explains how to upgrade EPM 11.1.2.4 java version to jdk1.7.0_161, but it can be referred to upgrade jdk to any higher version.
https://mosemp.us.oracle.com/epmos/faces/DocumentDisplay?_afzLoop=318755365400365&id=2351499.1&_adf.ctrl-state=18o6nwwzhr1_110
- 2) Import AD SSL certificate on upgraded JRE 1.7.0_xxx
 - a. Import certificate to jdk1.7.0_xxx using below link. Use jdk1.7.0_xxx instead of jdk160_35 in below link to import certificate. Skip importing certificate for jrockit_160_37.

<https://mosemp.us.oracle.com/epmos/faces/DocumentDisplay?id=1599610.1&displayIndex=4#FIX>

30084545 - In EPM 11.1.2.4 with Java 1.7 MSAD will not get configured in Shared Services

In EPM System release 11.1.2.4, Oracle recommended Java 1.7 to support TLS 1.2 for EPM Products to work correctly. However, after upgrading EPM products JDK version to JDK 1.7, while configuring MSAD with SharedServices using SSL port, we end up with the below error.

```
"EPMCSS-05318: Failed to validate Security Configuration. Failed to connect.
Invalid values for host or port. Enter valid value(s)"
```

Also, found below errors in SharedServices_Security.log

```
"[FoundationServices0] [ERROR] [EPMCSS-05860] [oracle.EPMCSS.CSS] [tid: 108] [userId:
<anonymous>] [ecid: 0000MjpX20IFw0KMyUaeMG1TB6i5000002,1:23214] [APP:
SHAREDSERVICES#11.1.2.0] [SRC_CLASS: com.hyperion.css.spi.impl.msad.JNDIHelper]
[SRC_METHOD: getURLContext] UNKNOWN operation failed. Error connecting to url.
RootCause : EPMCSS-07047: UNKNOWN operation failed. Error executing query. RootCause :
simple bind failed: <hostname>:636. Verify user directory configuration. Verify MSAD user
directory configuration."
```

In TRACE mode log

```
"javax.naming.CommunicationException: simple bind failed: <hostname>:636 [Root
exception is javax.net.ssl.SSLHandshakeException: java.security.cert.CertificateException:
No subject alternative names matching IP address <hostname> found"
```

This issue happens because the endpoint identification algorithms have been enabled by default to improve the robustness of LDAPS (secure LDAP over Transport Layer Security (TLS) connections in jdk1.7.0 update 191 or above. With this security feature, SSL enabled LDAP is asking Java Secure Socket Extension (JSSE) to validate the LDAP server's certificate to ensure it is compliant with hostname verification. With this change, if the server's certificate is not compliant, the exception will be thrown. In the past, LDAP did not request JSSE to perform hostname verification and a non-compliant server certificate would not have shown this error. Release note can be find in below link.

https://www.oracle.com/technetwork/java/javase/documentation/javase7supportreleasenotes-1601161.html#R170_191 at section → **Improve LDAP support**

To resolve the issue, please follow the workaround below,

- 1) Regenerate the certificate with Subject Alternative names (SAN) matching with all host names which is being configured in shared services.
- 2) Import regenerated certificate to jdk1.7.0_xxx using below link. Use jdk1.7.0_xxx instead of jdk160_35 in below link to import certificate. Skip importing certificate for

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SHAREDSERVICES#11.1.2.0] [SRC_CLASS: com.hyperion.css.spi.impl.msad.JNDIHelper]
[SRC_METHOD: getDirectoryContext] Configuration validation failed for user directory . Error
getting connection. simple bind failed: <hostname>:636. Verify MSAD user directory
configuration."
```

In TRACE mode log

```
"javax.naming.CommunicationException: simple bind failed: <hostname>:636 [Root exception
is javax.net.ssl.SSLHandshakeException: sun.security.validator.ValidatorException: PKIX path
building failed: sun.security.provider.certpath.SunCertPathBuilderException: unable to find valid
certification path to requested target"
```

This happens because the encryption mechanism used by MSAD2016 i.e. TLS 1.2 which is not supported in JDK160_35, which is by default shipped with EPM 11.1.2.4 release.

To resolve the issue, please follow the workaround below,

- 1) Upgrade EPM 11.1.2.4 JDK160_35 to JDK1.7.0_XXX
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- 2) Import AD SSL certificate on upgraded JRE 1.7.0_xxx
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<https://mosemp.us.oracle.com/epmos/faces/DocumentDisplay?id=1599610.1&displayIndex=4#FIX>

30084545 - In EPM 11.1.2.4 with Java 1.7 MSAD will not get configured in Shared Services

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"EPMCSS-05318: Failed to validate Security Configuration. Failed to connect.
Invalid values for host or port. Enter valid value(s)"
```

Also, found below errors in SharedServices_Security.log

```
"[FoundationServices0] [ERROR] [EPMCSS-05860] [oracle.EPMCSS.CSS] [tid: 108] [userId:
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SHAREDSERVICES#11.1.2.0] [SRC_CLASS: com.hyperion.css.spi.impl.msad.JNDIHelper]
[SRC_METHOD: getURLContext] UNKNOWN operation failed. Error connecting to url.
RootCause : EPMCSS-07047: UNKNOWN operation failed. Error executing query. RootCause :
simple bind failed: <hostname>:636. Verify user directory configuration. Verify MSAD user
directory configuration."
```

In TRACE mode log

```
"javax.naming.CommunicationException: simple bind failed: <hostname>:636 [Root
exception is javax.net.ssl.SSLHandshakeException: java.security.cert.CertificateException:
No subject alternative names matching IP address <hostname> found"
```

This issue happens because the endpoint identification algorithms have been enabled by default to improve the robustness of LDAPS (secure LDAP over Transport Layer Security (TLS) connections in jdk1.7.0 update 191 or above. With this security feature, SSL enabled LDAP is asking Java Secure Socket Extension (JSSE) to validate the LDAP server's certificate to ensure it is compliant with hostname verification. With this change, if the server's certificate is not compliant, the exception will be thrown. In the past, LDAP did not request JSSE to perform hostname verification and a non-compliant server certificate would not have shown this error. Release note can be find in below link.

https://www.oracle.com/technetwork/java/javase/documentation/javase7supportreleasenotes-1601161.html#R170_191 at section → **Improve LDAP support**

To resolve the issue, please follow the workaround below,

- 1) Regenerate the certificate with Subject Alternative names (SAN) matching with all host names which is being configured in shared services.
- 2) Import regenerated certificate to jdk1.7.0_xxx using below link. Use jdk1.7.0_xxx instead of jdk160_35 in below link to import certificate. Skip importing certificate for

rockit_160_37.

<https://mosemp.us.oracle.com/epmos/faces/DocumentDisplay?id=1599610.1&displayIndex=4#FIX>

4

Lifecycle Management

In This Chapter

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How can I run the Lifecycle Management Command Line Utility (CLU) in EPM System Release 11.1.2.1 from a non-Foundation Services machine?

In EPM System Release 11.1.2.x, apart from the machine where Foundation Services is configured, Lifecycle Management CLU migrations can only be run from a machine where EPM System products are configured as part of a distributed EPM System configuration. Lifecycle Management migrations using the CLU cannot be run from standalone client machines that do not have any EPM System products installed.

To run the Lifecycle Management Command Line Utility from a non-Foundation Services machine:

1. Copy `Utility.bat` (Windows) or `Utility.sh` (UNIX) from `EPM_ORACLE_HOME/common/utilities/LCM/11.1.2.0/bin` to `MIDDLEWARE_HOME/user_projects/epmsystem1/bin` directory.
2. Navigate to `MIDDLEWARE_HOME/user_projects/epmsystem1/bin` and execute `Utility.bat` or `Utility.sh`.

In EPM System Release 11.1.2.1, I want to update the description for several native groups. I used Lifecycle Management to export these groups to a .csv file, modified the description, and then re-imported the groups using the “Create/Update” option, but the description did not get updated. How can I fix this?

The most likely cause is that the Internal ID column data was removed from the exported `.csv` file. Make sure that you retain the Internal IDs for the groups, and just change the description.

In EPM System Release 11.1.2.1, when I perform Lifecycle Management (LCM) on Reporting and Analysis artifacts, the user running the LCM import is assigned as owner to some of the artifacts. In the LCM source environment, the owner for these artifacts is different. How can I fix this?

For Reporting and Analysis, LCM maintains the ownership during the LCM operation, and after the import into the target, the correct owner is assigned to the artifact. The user performing the import is assigned as the owner when the owner userid does not exist in the target. This could be due to the following:

- The owner is a native user and the native user identity is different between the source Shared Services and target Shared Services. The fix is to remove the user in the target and import the userid from the source via LCM to make the identities the same.
- The owner is an LDAP/MSAD user who was deleted since the time the user created the artifact in the source.
- The source LDAP/MSAD configuration is different from the target and the userids and/or identities are different.

To address this issue, fix any issues listed above in the target and re-import the artifacts.

I am upgrading from EPM System Release 11.1.1.4 to Release 11.1.2.1, and I need to migrate provisioning data after I have already performed the full upgrade once. How can I do this?

The “hssmigrate” utility can only be run once per upgrade process. To run this utility again, a fresh environment is needed. Instead, the data can be exported from the 11.1.1.4 environment using the LCM export. The exported content will be under the `HYPERION_HOME/common/import_export` folder. Copy the exported content to the 11.1.2.2 environment under the migration folder (`EPM_ORACLE_INSTANCE/import_export`), and perform an LCM import into the 11.1.2.2 environment. The import will complete successfully with one warning saying the version of the content does not match. This warning can be ignored.

Note: Lifecycle Management does not typically support migration between different releases; this use case is an exception.

In Release 11.1.2.2.x, I understand that migration of artifacts between two EPM System releases is not supported by LCM, but does it support migration of artifacts for a Patch Set Update (PSU)?

Yes, migration of artifacts between different PSU levels is supported. For example, exported artifacts from Release 11.1.2.2 can be imported into Release 11.1.2.2.300.

In EPM System Release 11.1.2.x, why can't I use Lifecycle Management to update a group when a group has no members?

When using “Create/Update” or “Update” as migration option during an import using Lifecycle Management, no update is required for a group with no group children under `groups.csv`. As a result, no update is performed for that group. At least one member is required to update group children.

In EPM System Release 11.1.2.x, Lifecycle Management cannot synchronize two EPM System environments when a group previously had one or more members and then the members were removed in source environment. In addition, Lifecycle Management cannot synchronize the target environment when using a Lifecycle Management import with updated exported artifacts from the source. Why?

When using “Create/Update” or “Update” as a migration option during an import from the source environment to the target environment, Lifecycle Management does not update a group with no group children in the exported artifact.

► To resolve this issue:

- 1 Back up the Shared Services database in the target environment.
- 2 Use Lifecycle Management to export the artifacts from target environment.
- 3 Import the artifacts into the target environment with the “Delete” option to delete all the users, groups and group children.
- 4 Import artifacts from the source environment into the target environment with the “Create” or “Create/Update” option to synchronize both the source and the target environments.

5

High Availability

In This Chapter

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Can I configure Essbase Release 11.1.2.2 using Microsoft Cluster Service (MSCS) now that Essbase has its own clustering support?

Yes, you can use Microsoft Cluster Service (MSCS) to set up an active-passive cluster in Essbase in Release 11.1.2.2.

Configuring Essbase

- To configure Essbase so that failover can be managed by an external failover mechanism:
 - 1 On the first machine (Node1), use EPM System Configurator to set up the first instance in the cluster:
 - On the “Configure Essbase Server” page, for **Full path to application location (ARBORPATH)**, the location you specify must be a shared drive. The location must reside on a file system that is reachable by all Essbase servers in the cluster.
 - For **Essbase Cluster Name**, specify the name for the cluster.
 - 2 On the second machine (Node2), use EPM System Configurator to make this Essbase Server join the cluster you created on the first machine:
 - On the “Configure Essbase Server” page, for **Full path to application location (ARBORPATH)**, the location must match the location you specified on the first machine in the cluster.
 - Click **Assign to Existing Cluster**, select the cluster, and then click **OK** to make this Essbase Server join the cluster you created on the first machine.

During cluster setup on the second machine, EPM System Configurator updates `essbase.cfg` (in `ARBORPATH/bin`) to specify `failovermode=true`.

3 Open `ARBORPATH/bin/essbase.cfg` on the shared drive and ensure that:

- `FAILOVERMODE` is set to `TRUE`
- `ESSBASESERVERHOSTNAME` is set to the virtual hostname

4 Configure the Virtual IP.

MSCS requires that virtual IPs are configured in the hardware cluster for binding to failover processes. Because Essbase does not support VIP binding directly, this has to be done indirectly:

- a. Update the Shared Services Registry to have the Essbase `HOST` property point to the VIP. Run the following command three times, once for each instance and once for the cluster:

```
epmsys_registry.bat updateproperty #<guid>/@host<Virtual hostname>
```

where `GUID` is the unique ID of each Essbase instance in the cluster (for example, `essbasecluster-inst1` and `essbasecluster-inst2`), and the unique ID of the cluster you defined, for example `EssbaseCluster-1`.

- b. Update the `hosts` file to ensure that the VIP hostname is the first name that comes up for name resolution on the machine, or that it is appropriately aliased to the primary physical IP on the box.

Perform this task on both nodes in the cluster.

5 Set up OPMN as the service to be managed by MSCS. See “Configuring MSCS.”

Essbase is not directly managed by MSCS; it is already managed by OPMN, which starts, stops, and restarts the Essbase Agent process on the local node. Essbase application processes are not managed by OPMN and therefore are not automatically started up and shut down. These server processes are managed by the Essbase Agent.

6 Optionally, create start, stop, and check status scripts for Essbase processes.

Because Essbase is not managed directly by MSCS but rather by OPMN, there may be a slight time delay during which OPMN cannot stop Essbase gracefully.

There is logic built into OPMN so that a failure to bring down the Essbase Agent normally causes OPMN to abortively stop it. Once the Essbase Agent is terminated, there is also logic in Essbase Servers while running in failover mode to terminate themselves within the lease expiration window (≤ 20 seconds, by default).

This is important to know because there may be a scenario where MSCS stops OPMN, which in turn stops the Essbase Agent, but there are Essbase applications still running. From a cluster services perspective, however, a failover can occur and OPMN can come up on the standby node. OPMN could also bring up the Essbase Agent on the standby node, but there may be server processes that do not start unless they have all terminated on the source node.

You can write custom status check scripts to alleviate this problem. For example, you could write custom status check scripts that could run as a post-STOP operation of OPMN to ensure that no Essbase Server processes are running after a certain time, for example, 20 seconds.

There are no client-side changes required.

Because Essbase Server is configured in `FAILOVERMODE`, it publishes active node information to the Shared Services Registry database, which stores Essbase high availability state-management tables.

Both Provider Services and the Shared Services Registry API have built-in logic to determine the active Essbase Server by querying the Essbase high availability state-management tables.

Configuring MSCS

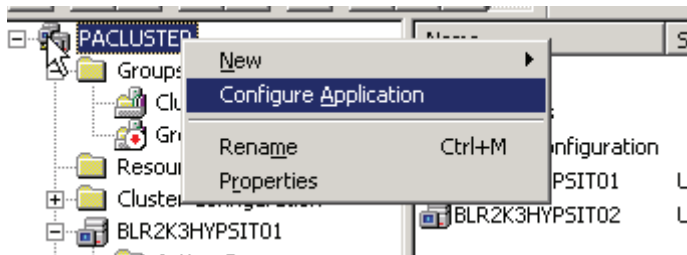
Prerequisites to configure MSCS:

- Static IP address for Node1 and Node2
- IP address for the cluster
- Virtual hostname aliased to the physical IP of the nodes
- Cluster nodes exist as an object in AD
- Domain service account that will be used to manage the service
- Quorum disk available for MSCS configuration
- Shared drive available to both cluster nodes

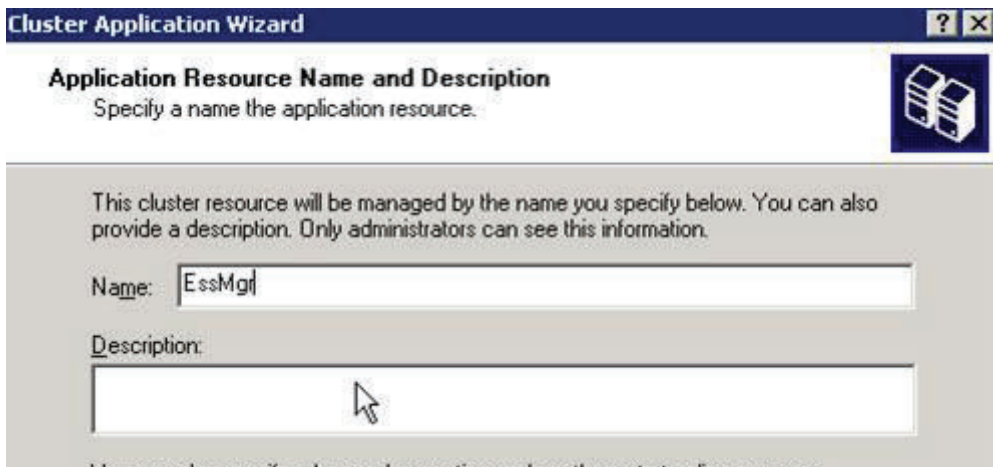
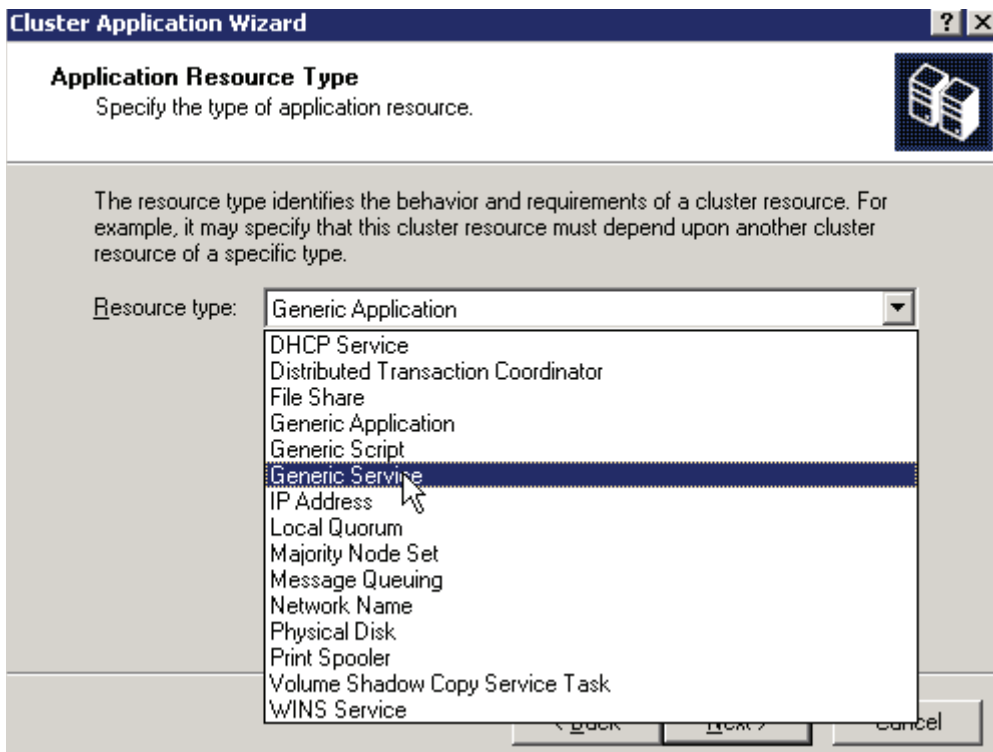
Note: In the procedures below, the screen shots are for Windows 2003.

➤ To configure MSCS:

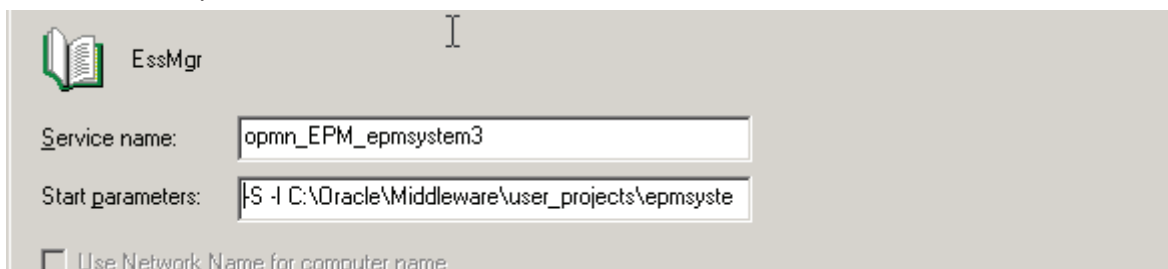
- 1 In the MSCS Cluster Administrator (in the Microsoft cluster), select **Configure Application** to configure OPMN as a shared resource to be managed by MSCS.



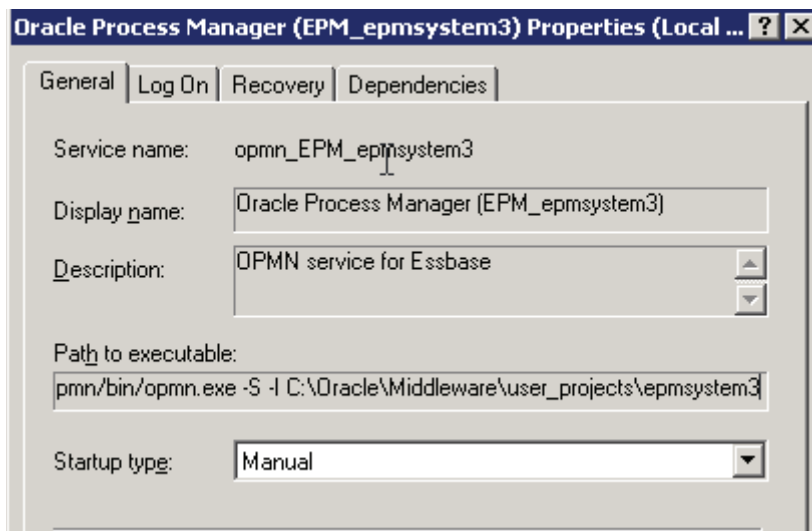
- 2 Create a generic service:



- 3 Configure the generic service with the service name. (Use the same service name configured on the cluster nodes.)

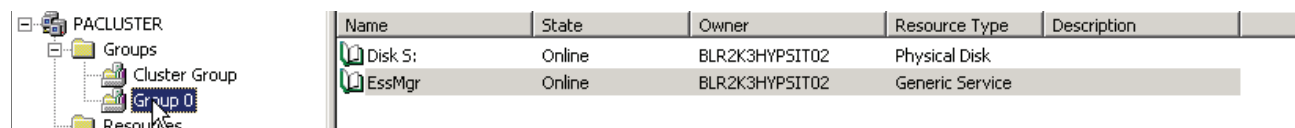


For example, ensure that the OPMN service is configured on each node of the cluster as shown:

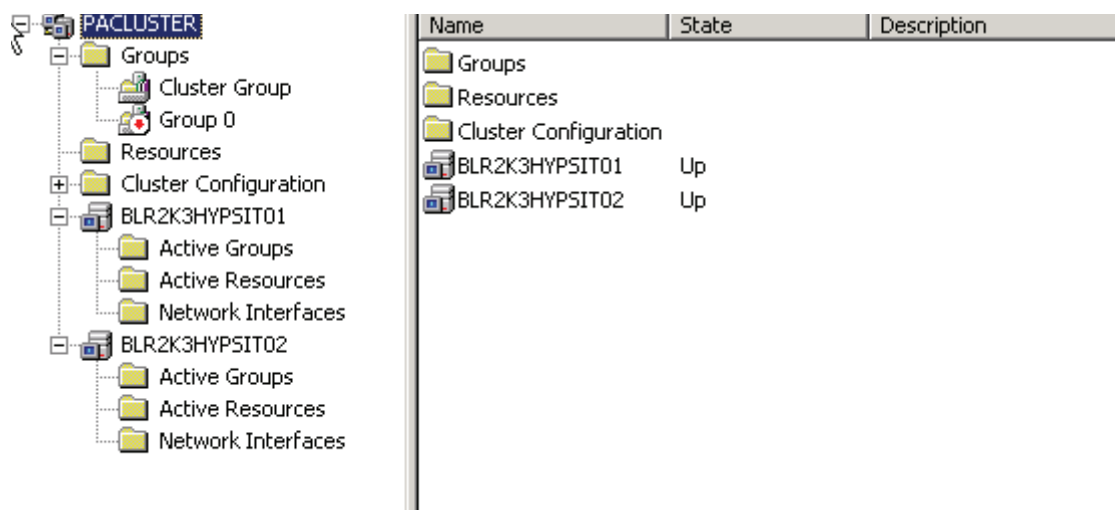


- 4 For ease of manageability, move the shared disk and the configured service to a new group.

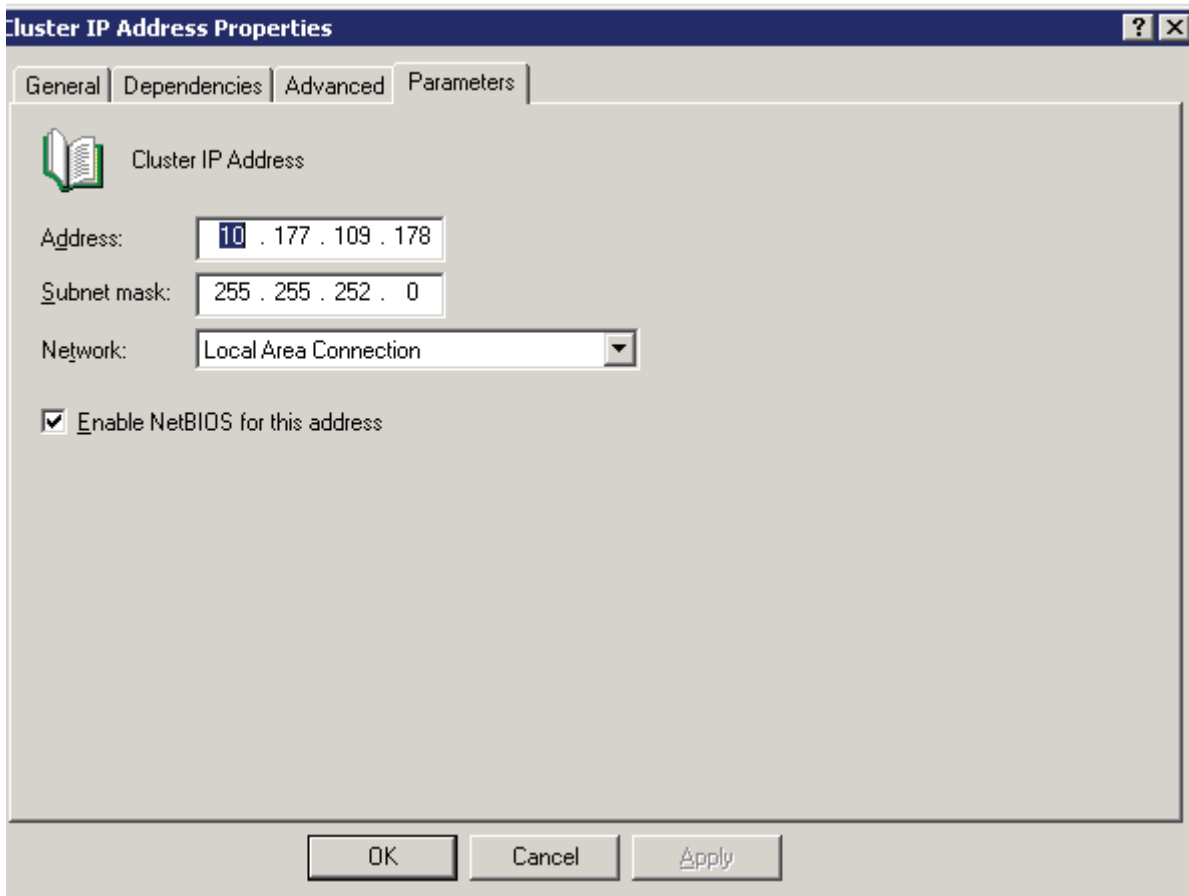
After the configuration is complete, the setup should look like this:



After configuring the Microsoft cluster, the setup looks similar to this:



The MSCS cluster configuration looks similar to this:



Is vertical scaling of Essbase supported in Release 11.1.2.1?

Yes, you can create multiple instances of Essbase and run agents on different ports.

In Release 11.1.2.1, which EPM System products support the Essbase failover feature, and which products do not?

The following products support Essbase failover:

- ERP Integrator
- Planning
- Essbase Administration Services
- Essbase Studio
- Financial Reporting Studio
- Web Analysis

The following products do not support Essbase failover:

- Essbase Integration Services
- Interactive Reporting
- FDM
- Essbase Analytics Link

What is the recommended approach for providing a failover mechanism for Essbase Server in Release 11.1.2.2?

There are two approaches that have led to successful implementations:

- The first approach is based on VM failover. This approach can be effective as long as the VM infrastructure is in place and can support complete failover, and the file system storage is an enterprise-grade Storage Area Network.
- The second approach is to configure an active-passive node for Essbase Server.

On Linux/Unix systems, we recommend using OPMN-based failover with a shared file system. For best performance, Oracle recommends a symmetric enterprise-grade solution using a Storage Area Network. The shared storage should be accessible for read and write on both active and passive systems during the normal operations of the server. This process is documented in the [EPM System Installation and Configuration Guide](#).

On Windows systems, we recommend using Microsoft Cluster Services. This is because NTFS is not a clustered file system and CIFS-based file systems can have a negative impact on Essbase performance. This process is documented in the [EPM System Installation and Configuration Guide](#).

6

Miscellaneous and Product-Specific Tips

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What are the changes in the infrastructure documentation for EPM System Release 11.1.2.2 that occurred in July 2012?

EPM Communication Flows Spreadsheet

Changed the default port for the Financial Management Web application from 6373 to 7363.

Installation Start Here

- In the “Ports” chapter, changed default port for the Financial Management Web application from 6373 to 7363.
- In the “Preparing Your Environment” chapter, removed the note that said "The UTF-8 character set must be applied to the client and to the Oracle Database."
- In the “Preparing Your Environment” chapter, clarified that both Performance Management Architect and Financial Management require that a 64 bit Oracle database client be installed to indicate that it is only for Windows 64 bit systems.

Installation and Configuration Guide

- Installing

- Added a maintenance installation prerequisite to make a backup of `oracle.products`.
- Added a note that IHS is required if you are using WebSphere.
- Added note that you must install, configure, and run EPM System Diagnostics as the same user. (Diagnostics was missing from the list.)
- Noted that the Essbase MSI Client Installer is Windows only. On UNIX, Essbase Client is installed with Essbase Server.
- Added a maintenance release installation prerequisite to apply PSE 13877599.
- **Configuring**
 - Removed mention of patches required for SOA, which are no longer required for Release 11.1.2.2.
 - Updated the URL to download online help files.
 - Added a note that you must install, configure, and run EPM System Diagnostics as the same user. (Diagnostics was missing from the list.)
- **Upgrading**

Clarified that you can upgrade from a 32 bit to a 64 bit version of a platform of the same type.
- **Performing Post-Configuration Tasks**
 - Modified the steps to configure Oracle Web Services Manager based on additional testing.
 - Added a new step for FCM if WebLogic is configured with MSAD to derive user principles.
- **High Availability**

Added a list of which products support and do not support Essbase failover.
- **Deploying to WebSphere**

Updated the WebSphere deployment and IHS configuration procedures.
- **Validating the Installation and Verifying Deployment**
 - Added details about the Deployment report.
 - Added a note that you must install, configure, and run EPM System Diagnostics as the same user.

Security Administration Guide

- In “Using a Custom Authentication Module, Overview of Steps”, modified the steps to add a custom authentication JAVA archive to `MIDDLEWARE_HOME/user_projects/domains/WebLogic_DOMAIN/lib`.
- In Appendix A, “Custom Authentication Sample Code”, added a note to not use `log4j` for logging. Updated the sample code to remove reference to `log4j`.
- In Appendix B, “Implementing a Custom Login Class”, added a missing import directive (`import com.hyperion.css.common.configuration.*;`) to the sample code.

- In Chapter 2, “SSL-Enabling EPM System Components”, in the section titled “Full SSL Deployment of EPM System”, corrected the sample secure JDBC URL.
- In Chapter 2, “SSL-Enabling EPM System Components”, in the section titled “SSL for Essbase”, fixed an inaccurate JDBC URL and corrected the location of the `essbase.properties` file.
- Added some HFM resources that were not included in the list to protect/unprotect.

User and Role Security Guide

Updated the description of Essbase Application Manager role by adding that “An Application Manager can delete only those applications and databases that he created”.

Rapid Deployment - Planning

Added the EPM Client installer archive to the download file list.

Standard Deployment Guide

- In “Setting up Network”, clarified text about the load balancer needed for the deployment.
- Updated a screen shot that contained incorrect information.

Lifecycle Management Migrating Applications Tutorials

- Added a new tutorial on how to migrate an EPMA-based Financial Management application from one environment to another using Lifecycle Management. (Includes sample data set.)
- In the tutorials for Planning and Profitably applications, updated the information based on feedback from the Advanced Team Training sessions.

Lifecycle Management Guide

In the “Shared Services and Lifecycle Management” chapter, added a tip about migrating Shared Services native users across environments.

In EPM System Release 11.1.2.1, I have EPM Workspace installed on a Japanese OS and my browser is set to English locale. When I log in to Workspace, an error message is displayed in the incorrect locale, even though the locale setting of my web browser and the Workspace server setting are both set correctly. The error message is displayed in Japanese instead of in English. Is there a workaround for this issue?

Yes, this is a defect and will be fixed in PSU 11.1.2.1.600.

► To work around this issue:

- 1 **Back up the `css.jar` file in `EPM_ORACLE_HOME/common/CSS/11.1.2.0/lib` on the Foundation Services machine.**
- 2 **Open the `css.jar` file using the 7-Zip utility to see a list of all the files in this `.jar`. Navigate to the `com/hyperion/css/i18n` directory and make a copy of `CSSMessages.properties`; rename it as `CSSMessages_en.properties` and then repackage this `css.jar` file.**
- 3 **Replace the existing `css.jar` file in `EPM_ORACLE_HOME/common/CSS/11.1.2.0/lib` on all other EPM System machines with this updated `css.jar` file.**
- 4 **Restart all EPM System machines.**

Development Announcement: We are pleased to announce the addition of Calculation Manager to the Business Intelligence category of Oracle Discussion Forums.

Oracle Discussion Forums are an interactive community for sharing information, questions, and comments about Oracle products and related technologies. Most forums are moderated by product managers, and all of them are frequently visited by knowledgeable users from the community. Oracle Discussion Forums are designed for peer-to-peer knowledge sharing.

To access Oracle Discussion Forums, select the following link:

<https://forums.oracle.com/forums/main.jspa?categoryID=84>

To access the Business Intelligence category directly, select the following link:

<https://forums.oracle.com/forums/category.jspa?categoryID=16>

To access the Calculation Manager Forum directly, select the following link:

<https://forums.oracle.com/forums/forum.jspa?forumID=1416>

Although anyone can read forum messages, you must be a registered member to post a question or response. Sign in at www.oracle.com/technology/membership to register free of charge.

Has the availability for download been changed for EPM System Releases 9.2.x, 9.3.x, 11.1.1.x, and 11.1.2.1 ?

Yes, EPM System Releases 9.2.x, 9.3.x, and 11.1.1.x have been removed from Oracle Software Delivery Cloud. In addition, EPM System downloads for Releases 9.3.3, 11.1.1.x, and 11.1.2.1 have been removed from Oracle Technology Network. Lifetime support is unaffected by this administrative action.

Existing customers deployed on one of these releases who need one or more of the removed components can request them through My Oracle Support. See My Oracle Support note “*Requesting Physical Shipment or Download URL for Software Media [ID 1071023.1]*” for details on how to make the request. The information provided in this note is also available to customers on My Oracle Support, “*Enterprise Performance Management System Releases 9.2.x, 9.3.x, 11.1.1.x and 11.1.2.1 Availability for Download Has Been Changed (Doc ID 1497170.1)*”.

Product documentation for these releases is still available in the Enterprise Performance Management System Documentation Library.

Is there any documentation on running Financial Management with virtualization technologies such as VMware?

A whitepaper has been published that explains the usage and benefits of virtualization technologies on a Financial Management deployment. This whitepaper is available here:

<http://www.oracle.com/technetwork/middleware/bi-foundation/resource-library-090986.html>

What is the statement of direction for Oracle Essbase Spreadsheet Add-in?

The Statement of Direction published as Doc ID 1466700.1 on My Oracle Support states that after January 1, 2013, Oracle Essbase Spreadsheet Add-in will no longer be available for general distribution with new releases of Oracle Essbase. Releases prior January 1, 2013 should be considered a terminal release for Essbase Spreadsheet Add-in and customers should make preparations to migrate to Oracle Hyperion Smart View for Office. Existing licensed customers of Oracle Essbase Spreadsheet Add-in will continue to be supported per the terms of their maintenance agreements with Oracle.

ANNOUNCEMENT: A new Video Feature Overview (VFO) on “Choosing a Deployment Path for Your Oracle EPM System Installation, Release 11.1.2.2” is now available on the Oracle EPM YouTube channel.

You can find this VFO and others here::

<http://www.youtube.com/user/OracleEPMWebcasts>

Please check the channel for the latest Enterprise Performance Management VFOs. We will continue to post new VFOs that focus on important, new EPM product features or modules.

The Log Analysis Utility introduced in Release 11.1.2.3 is useful to debug issues faster. Is there any stand alone utility that I can use to analyze the logs from earlier EPM System versions?

Yes. Download Release 11.1.2.3 Shared Services Patch 17425397, and use the Log Analysis Utility from this patch. This utility is self-contained, and it can be run from any non-EPM System machine.

In EPM System Release 11.1.2.x, how can I enable the EPM Server Shared Services Taskflow log level in TRACE mode?

► To enable the log in TRACE mode:

1 Back up the log folder.

For compact deployment: `EPM_ORACLE_INSTANCE\domains\EPMSystem\servers\EPMServer0\logs`

For regular deployment: `EPM_ORACLE_INSTANCE\domains\EPMSystem\servers\FoundationServices0\logs`

2 Back up the logging.xml file.

For compact deployment: `EPM_ORACLE_INSTANCE\domains\EPMSystem\config\fmwconfig\servers\EPMServer0`

For regular deployment: `EPM_ORACLE_INSTANCE\domains\EPMSystem\config\fmwconfig\servers\FoundationServices0`

3 Update logging.xml for the empces-handler component.

- Modify the `maxFileSize` and `maxLogSize` attributes by appending an extra "0" to generate the logs in a single file.

```
<log_handler class="oracle.core.ojdl.logging.ODLHandlerFactory" name="empces-handler">
  <property name="path" value="${log.directory}/SharedServices_Taskflow.log" />
  <property name="maxFileSize" value="1000000" />
  <property name="maxLogSize" value="5000000" />
  <property name="useSourceClassAndMethod" value="true" />
</log_handler>
```

- Modify the log level for `empces-handler` to `TRACE:32`.

```
<logger level="TRACE:32" name="oracle.EPMCES" useParentHandlers="false">
  <handler name="empces-handler" />
</logger>
```

4 Restart all the services.

- 5 Reproduce the issue and attach the log files from the above location.

In EPM System Release 11.1.2.x, how can I enable or generate client side logging for the Shared Services Taskflow log in TRACE mode for product servers?

The client logs for Shared Services task flows are only applicable to Financial Management, Performance Management Architect, and Profitability and Cost Management. The services for these products are HFMWeb0, EpmaWebReports0, and Profitability0 respectively.

- To enable the SharedServices_TaskflowClient log in TRACE mode

1 Back up the log folder.

For compact deployment: `EPM_ORACLE_INSTANCE\domains\EPMSystem\servers\EPMServer0\logs`

For regular deployment: `EPM_ORACLE_INSTANCE\domains\EPMSystem\servers\<ProductServiceName>\logs`

2 Back up the logging.xml file.

For compact deployment: `EPM_ORACLE_INSTANCE\domains\EPMSystem\config\fmwconfig\servers\EPMServer0`

For regular deployment: `EPM_ORACLE_INSTANCE\domains\EPMSystem\config\fmwconfig\servers\<ProductServiceName>`

3 If `empces-handler` is available in `logging.xml`, follow these steps to enable the log level to TRACE:

- a. Modify the log level for `empces-handler` to `TRACE:32`.

```
<logger level="TRACE:32" name="oracle.EPMCES" useParentHandlers="false">
  <handler name="empces-handler" />
</logger>
```

- b. Restart all the services.
- c. Reproduce the issue and attach the log files from the above location.

4 If `empces-handler` is not available in `logging.xml`, follow these steps to generate `SharedServices_TaskflowClient.log` and enable the log level to TRACE.

- a. Add `empces-handler` under the `<loghandlers>` xml element.

```
<log_handler class="oracle.core.ojdl.logging.ODLHandlerFactory" name="empces-
handler">
  <property name="path" value="<directory path of log file as similar to other
component>/SharedServices_TaskflowClient.log"/>
  <property name="maxFileSize" value="1000000"/>
  <property name="maxLogSize" value="5000000"/>
  <property name="useSourceClassAndMethod" value="true"/>
</log_handler>
```

- b. Add `epmces-handler` under the `<loggers>` xml element.

```
<logger level="TRACE:32" name="oracle.EPMCES" useParentHandlers="false">
  <handler name="epmces-handler" />
</logger>
```

- c. Restart all the services.
- d. Reproduce the issue and attach the log files from the above location.

In EPM System, when task flow is defined to execute a utility or script, where should I place the utility or script, in which product deployment box should I place the utility or script, and how do I specify the path of utility or script in the task flow definition?

Where should I place the utility or script?

In Release 11.1.2.x , the utility or script is in `EPM_ORACLE_HOME\common\utilities`.

In Release 9.x, the utility or script is in `HYPERION_HOME\common\utilities`.

In which product deployment box should I place the utility or script?

If Shared Services is deployed in multiple boxes, copy the utility file to the following location for all Shared Services deployments:

Release 11.1.2.x: `EPM_ORACLE_HOME\common\utilities`

Release 9.x: `HYPERION_HOME\common\utilities`

How do I specify the path of the utility of script in the task flow definition?

The path of utility or script is always relative to these paths:

Release 11.1.2.x: `EPM_ORACLE_HOME\common\utilities`

Release 9.x: `HYPERION_HOME\common\utilities`

If the utility is present directly under these paths, then only mention the name of the utility file.

In EPM System Release 11.1.2.x with Financial Close Management, Account Reconciliation Management, and SOA installed, creating or editing a task flow gives “404 ERROR”.

This error occurs because SOA deployment modifies the Weblogic system class path with `quartz-all-1.6.5.jar` and does not load the actual version of `quartz.jar`, which is required for CES in the application class path.

The base exception observed in the `FoundationService0.log` is:

```
java.lang.NoClassDefFoundError: org/apache/commons/dbcp/BasicDataSource
```

► To resolve this issue:

- 1 **Stop Foundation Services.**
- 2 **Navigate to** `EPM_ORACLE_HOME\products\Foundation\AppServer\InstallableApps\common`
- 3 **Extract** `weblogic-application.xml` **from** `interop.ear\META-INF`.
- 4 **Add these xml tags in the** `weblogic-application.xml` **file:**

```
<prefer-application-packages>
  <package-name>org.quartz.*</package-name>
</prefer-application-packages>
```
- 5 **Copy the modified** `weblogic-application.xml` **to** `interop.ear\META-INF` **and close to save the changes.**
- 6 **Navigate to** `EPM_ORACLE_INSTANCE\domains\EPMSys\servers\FoundationServices0\tmp_WL_user\SHARED_SERVICES_11.1.2.0\yidcyl` **and delete the** `war` **directory.**
- 7 **Restart Foundation Services.**

In EPM System Release 11.1.2.x, irrespective of any products, sending an email from task flow fails with the following error in the in the `SharedServices_Taskflow.log`: `Illegal address.`

The error occurs when the `admin` email address is either blank or is not recognized by the SMTP server. The `admin` email address should be valid and should be properly mentioned in the registry.

Generate a registry report, and if the `AdminEmail` property is not valid, update the property with a valid `admin` email address. To do this:

1. Stop Foundation Services.
2. Update `AdminEmail` in the registry:
 - a. Launch a command prompt at `EPM_ORACLE_INSTANCE\epmsystem1\bin`.
 - b. Execute the following command:

```
epmsys_registry.bat updateproperty SHARED_SERVICES_PRODUCT/
@AdminEmail
<Fully_Qualified_Admin_EmailId_Ex_first.second@oracle.com>
```
3. Start Foundation Services.

In EPM System Release 11.1.2.x, irrespective of any product, sending an email from task flow fails with the following error in the SharedServices_Taskflow.log: The Network Adapter could not establish the connection.

The error occurs when the server is not able to ping the SMTP host using the provided host name in registry. The host name should be the fully-qualified name of the SMTP server, and it should be properly mentioned in the registry.

Generate a registry report, and if the SMTPHostName property is not fully qualified, update the property with the fully-qualified host name of the SMTP server. To do this:

1. Stop Foundation Services.
2. Update SMTPHostName in the registry:
 - a. Launch a command prompt at `EPM_ORACLE_INSTANCE\epmsystem1\bin.`
 - b. Execute the following command:

```
epmsys_registry.bat updateproperty SHARED_SERVICES_PRODUCT/  
@SMTPHostName <Fully_Qualified_SMTP_Server_Ex_SMTP.oracle.com>
```
3. Start Foundation Services.

In EPM System Release 11.1.2.x, irrespective of any products, sending an email from task flow fails with any of the following errors in the SharedServices_Taskflow.log:

```
[ERROR] [] Can't send command to SMTP host
[ERROR] [EPMCES-61058] Wrong type of principal object is entered!
.
.
[TRACE] [] "Illegal address"
[ERROR] [EPMCES-61058] "Wrong type of principal object is entered!"
.
.
[EPMCES-11009] "Connection to email server is broken. Failed to send
email!"
.
```

[ERROR] [EPMCES-61041] "Cannot connect to email server. null"
[ERROR] [EPMCES-61043] "Unable to execute Email stage: <Stage_Name>
Email server is not running. Make sure that Email server is running and
try again."

These errors occur because Weblogic refers to a newer version of mail jar (javax.mail_1.4.jar), but Shared Services refers to an older version of mail jar (javax.mail_1.1.0.0_1-4-1.jar). Since the modules directory where javax.mail_1.4.jar resides is owned by Weblogic and is being used across the modules, the old version jar must be manually replaced with the new version jar.

► To resolve this issue:

1 Stop Foundation Services.

In a clustered environment, stop Foundation Services on all the servers.

2 Navigate to *EPM_MIDDLEWARE_HOME*\modules.

3 Back up the existing jar file javax.mail_1.1.0.0_1-4-1.jar to javax.mail_1.1.0.0_1-4-1.jar_orig.

4 In the \modules folder, copy javax.mail_1.4.jar, and rename the copy to javax.mail_1.1.0.0_1-4-1.jar.

5 Start Foundation Services.

In a clustered environment, start Foundation Services on all the servers.

6 Run the task flow.

In EPM System Release 11.1.2.x, irrespective of any products, in a multi-staged task flow, some of the stages are not executed.

In multi-staged task flows, stages are linked with each other. The last stage is linked to “Receiving-Stage = End”, which marks the end of task flow. This issue occurs because one of the prior stages was linked to “Receiving-Stage = End”, and the later stages did not get executed. This is a functional error, and no error is observed in the log files.

To resolve this issue, ensure that only the last stage is linked to “Receiving-Stage = End”.

In EPM System releases prior to Release 11.1.2.2.303, with Performance Management Architect and Profitability and Cost Management products, deploying a Profitability and Cost Management application to an Essbase Cube in a fully SSL-enabled environment gives “Error Creating Taskflow.”

The base exception is observed in the HPCM.log file is

Note: The exact error message can be seen in “SharedServices_TaskflowClient.log” in the HPCM service. To enable client side logging for CES, see the tip titled “In EPM System Release 11.1.2.x, how can I enable or generate client side logging for the Shared Services task flow log in TRACE mode for product servers?”

```
com.hyperion.workflow.engine.api.base.WfException:  
weblogic.net.http.SOAPHttpsURLConnection
```

In fully SSL-enabled environments, Weblogic does not use the standard Sun HTTPS implementation provided by JDK; instead, Weblogic uses its own HTTP implementation, which is `weblogic.net.http.SOAPHttpsURLConnection`.

The standard Sun HTTPS implementation class is `javax.net.ssl.HttpsURLConnection`. To force the use of the Sun HTTP implementation, you must add the following flag in Weblogic:

```
-DUseSunHttpHandler=true
```

➤ To resolve this issue:

- 1 Stop the Foundation Service and the Profitability Service.
- 2 Select **Start**, then **Run**, and then type **regedit**.
- 3 Go to `HKEY_LOCAL_MACHINE\Software\HyperionSolutions\FoundationServices0\HyS9FoundatonServices_epmsystem1`
- 4 Create new JVM Option and enter `-DUseSunHttpHandler=true` in the data field.
- 5 Create a new JVM Option for Profitability0 as mentioned in Step 4 above.
- 6 Restart the Foundation Service and the Profitability Service.

Note: This issue has been fixed in Release 11.1.2.3, and back ported to Release 11.1.2.2.303.

In EPM System Release 11.1.2.x, when SSO Kerberos is enabled, the deployment of a Profitability and Cost Management application to Essbase fails; however, the deployments are successful when SSO Kerberos is disabled.

The error observed in the `SharedServices_TaskflowClient.log` is as follows:

```
[ERROR] [] "java.lang.NullPointerException at
sun.net.www.protocol.http.NegotiateAuthentication.setHeaders(NegotiateA
uthentication.java:161) "
```

Note: If the `SharedServices_TaskflowClient.log` is not generated in Profitability and Cost Management, enable the CES client logger for Profitability and cost Management as described in the tip titled “In EPM System Release 11.1.2.x, how can I enable or generate client side logging for the Shared Services task flow log in TRACE mode for product servers?”

This issue is because of Kerberos where the task flow HTTP API code could not authenticate the Kerberos ticket, so it gives a response code 407 - Proxy Authentication Required. To avoid this, you must explicitly exclude the task flow URL from authenticating with the Kerberos ticket.

► To resolve this issue:

- 1 Add a policy in Weblogic to allow anonymous access for `/interop/WorkflowEngine`. Use the URL pattern `/WorkflowEngine/*`.
- 2 If any other HTTP request receives a 401 response code, add a policy for that corresponding URL.

For example, if `http://hostname:19000/interop/TaskReceiver` receives a 401 response code, then add policy in Weblogic to allow anonymous access for `/interop/TaskReceiver`. Use the URL pattern `/TaskReceiver/*`.

After upgrading from Release 11.1.2.1 to Release 11.1.2.3, when I navigate to “Search Task,” the screen crashes with “Error 500 – Internal Server Error.”

The error observed in the `SharedServices_Taskflow.log` is as follows:

```
[TRACE] [] "java.lang.NullPointerException at
com.hyperion.workflow.engine.utils.WfCacheManager.sortWorkFlowInstances
OnStartTime(WfCacheManager.java:159) "
```

This issue occurs because the newly-introduced columns in the CES table CES_WF_INSTANCES were not populated.

► To resolve this issue:

1 Stop Foundation Services.

2 Set the `workflowEngine.ces.upgradeFlag` in the registry to false.

- a. Launch a command prompt at `EPM_ORACLE_INSTANCE\epmsystem1\bin`.
- b. Execute the following command:

```
epmsys_registry.bat addProperty SHARED_SERVICES_PRODUCT/  
@workflowEngine.ces.upgradeFlag false
```

- c. Start Foundation Services.

In EPM System Release 11.1.2.x, after I delete a task flow in Taskflow Listing screen, the task flow still shows on the list. If I try to delete it again, it show "No records were found". Also, if I create a task flow within the refresh interval, the newly-created task flow does not appear in the Taskflow Listing screen.

If the create task flow or delete task flow activity completes before the refresh interval expires, the cache is not refreshed. To force cache to refresh, the refresh interval must be set to 0.

► To resolve this issue:

1 Stop Foundation Services.

2 Set the `workflowEngine.ces.refreshInterval` property in the registry to false.

- a. Launch a command prompt at `EPM_ORACLE_INSTANCE\epmsystem1\bin`.
- b. Execute the following command:

```
epmsys_registry.bat updateproperty SYSTEM9/  
FOUNDATION_SERVICES_PRODUCT/SHARED_SERVICES_PRODUCT/  
@workflowEngine.ces.refreshInterval 0
```

3 Start Foundation Services.

Note: This issue has been fixed in Release 11.1.2.3.500.

In EPM System Release 11.1.2.x, scripts do not execute when running from Performance Management Architect task flows; however, scripts do execute successfully from a command prompt.

The error observed in the `SharedServices_Taskflow.log` is as follows:

```
[NOTIFICATION] [EPMCES-13685] "Type ERROR = Unrecognized VM option '-FlightRecorder'"
[NOTIFICATION] [EPMCES-13685] "Type ERROR = Could not create the Java virtual machine."
```

Here the task flow is executed correctly by CES, but the error occurs as a part of script execution. This issue occurs because the script, which works fine from command prompt, is not customized to run from the task flow. Scripts run from a command prompt are executed in JVM. Scripts run from task flows are executed in JRockit VM.

► To resolve this issue:

- 1 **Replace** `JAVA_HOME/bin/java` with `EPM_MIDDLEWARE_HOME/jrockit_160_37/bin/java`

Note: Update the jrockit version as applicable.

- 2 **Run the task flow.**

In EPM System Release 11.1.2.x, when I try to create a Financial Management task flow it does not list all the possible Financial Management application servers/clusters. Why not?

The prerequisite for a Financial Management application-server/cluster to be displayed while creating a task is that the application must be registered on that particular Financial Management application server/cluster.

► To list all the possible application servers/clusters:

- 1 **Register the application against all the application servers/clusters.**
- 2 **Restart the Foundation Server.**

Note: When you register an application against a new cluster, all the task flows (preexisting or new) created for the old cluster will point to the new cluster against which the application is now registered.

In EPM Release 11.1.2.2.500 and 11.1.2.3.x, I cannot view the "Manage Task Flows" screen after provisioning the "Manage Taskflow" or "Run Taskflow" role. Why not?

Users must be provisioned with the "Manage Taskflow" or "Run Taskflow" role, but the "Administration" menu does not display the "Manage Taskflow" menu item unless the user is provisioned with Performance Management Architect roles. See the *Oracle Enterprise Performance Management System User and Role Security Guide*.

► To resolve this issue:

- 1 Log in as an administrator.
- 2 Provision the "EPMA Administrator" role.
 - a. Navigate to the User Management screen by selecting **Navigate**, then **Administer**, and then **Shared Service Console**.
 - b. In **User Directories**, go to **Users**.
 - c. Right-click **User**, and then select **Provision**.
 - d. Provision the **EPMA Administrator** role (or any one of its sub-roles) to the user.

The EPMA Administrator role is present under **Foundation**, then **Shared Services** in the role hierarchy.

- 3 Logout as an administrator.
- 4 Clear the browser cache.
- 5 Log in as a specific user.

In EPM System Release 11.1.2.1, users who are provisioned to only "Run Taskflow" can also create, edit, and delete task flows for Performance Management Architect applications. Users should be allowed to perform this operation only if they have the "Manage Taskflow" role.

This issue occurs because the previous user session is still retained even after logging out. This occurs because the log out is not performed correctly in the Performance Management Architect module.

► To resolve this issue, perform these steps before logging in:

- 1 Clear the browser cache.

- 2 Close and relaunch the browser
- 3 Log in as a specific user.

In EPM System Release 11.1.2.x, when I create a new task flow or edit an existing task flow in “Manage Taskflow”, I can see the deleted application in the Processing Tab - Application drop down list.

The deleted application is available in Processing Tab - Application drop down list when you create or edit a task flow, and will only be cleaned up when a task flow is executed.

To resolve this issue, execute any task flow using the “Run Now” button or the “Scheduling” feature.

Note that the execution of task flows created for applications that are already deleted fail with the following error: Workflow engine error Cannot get domain object properties. Application doesn't exist. The following errors are observed in the SharedServices_Taskflow.log:

```
[ERROR] [EPMCES-61058] "Workflow Exception Occurred due to Cannot get domain object properties. Object not found"
```

```
[ERROR] [EPMCES-61058] "Workflow Exception Occurred due to Cannot getApplicationDefinitionCannot get domain object properties. Object not found"
```

```
[ERROR] [EPMCES-61008] "Workflow engine error: Cannot run task flow. Application or Action is not defined for the existing task flow. Please define either Application or Action and then run the task flow."
```

Note: This issue will be fixed in Release 11.1.2.4.