Oracle® Primavera®

Contract Management 13.0 Installation and Configuration Guide for Microsoft® SQL Server
The Programs (which include both the software and documentation) contain proprietary information; they are provided under a license agreement containing restrictions on use and disclosure and are also protected by copyright, patent, and other intellectual and industrial property laws. Reverse engineering, disassembly, or decompilation of the Programs, except to the extent required to obtain interoperability with other independently created software or as specified by law, is prohibited.

The information contained in this document is subject to change without notice. If you find any problems in the documentation, please report them to us in writing. This document is not warranted to be error-free. Except as may be expressly permitted in your license agreement for these Programs, no part of these Programs may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose.

If the Programs are delivered to the United States Government or anyone licensing or using the Programs on behalf of the United States Government, the following notice is applicable:

U.S. GOVERNMENT RIGHTS Programs, software, databases, and related documentation and technical data delivered to U.S. Government customers are "commercial computer software" or "commercial technical data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the Programs, including documentation and technical data, shall be subject to the licensing restrictions set forth in the applicable Oracle license agreement, and, to the extent applicable, the additional rights set forth in FAR 52.227-19, Commercial Computer Software--Restricted Rights (June 1987). Oracle USA, Inc., 500 Oracle Parkway, Redwood City, CA 94065.

The Programs are not intended for use in any nuclear, aviation, mass transit, medical, or other inherently dangerous applications. It shall be the licensee's responsibility to take all appropriate fail-safe, backup, redundancy and other measures to ensure the safe use of such applications if the Programs are used for such purposes, and we disclaim liability for any damages caused by such use of the Programs.

Oracle and Primavera are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

The Programs may provide links to Web sites and access to content, products, and services from third parties. Oracle is not responsible for the availability of, or any content provided on, third-party Web sites. You bear all risks associated with the use of such content. If you choose to purchase any products or services from a third party, the relationship is directly between you and the third party. Oracle is not responsible for: (a) the quality of third-party products or services; or (b) fulfilling any of the terms of the agreement with the third party, including delivery of products or services and warranty obligations related to purchased products or services. Oracle is not responsible for any loss or damage of any sort that you may incur from dealing with any third party.

To view the Contract Management 13.0 Commercial Notices and Disclosures for Documentation, go to the Documentation folder of the Contract Management physical media or download.
# Table of Contents

## Preface
- Contract Management Overview ................................................................. 6
- Contract Management (v13.0) Media Pack ......................................................... 8
- Contract Management Documentation ............................................................. 9
- About this Manual .......................................................................................... 11
- Contacting Customer Support ....................................................................... 13

## Preparing for Installation
- Overview ......................................................................................................... 16
- Creating New Databases .................................................................................. 18
- Upgrading Your Databases ............................................................................... 21
- Migrating Databases ....................................................................................... 22
- Configuring a JBoss Application Server ......................................................... 23
- Configuring a WebLogic Application Server ............................................... 25

## Configuring WebLogic for Microsoft SQL Server Databases
- Prerequisites ................................................................................................... 30
- Configuring the Data Source .......................................................................... 31
- Deploying Contract Management ................................................................ 34
- Configuring the Contract Management Port Specification ..................... 36

## Installing Contract Management on a Web Server
- Prerequisites ................................................................................................... 38
- Installing *Contract Management* ............................................................... 39
- Locating the Database Port Number when Using Microsoft SQL Server Express .... 44

## Upgrading to Contract Management from a Previous Version
- Prerequisites ................................................................................................... 46
- Upgrading an Existing Stand-Alone Installation .......................................... 47
- Upgrading an Existing Web Server Installation ........................................... 48

## Configuring Contract Management for a WebLogic Cluster
- Prerequisites ................................................................................................... 52
- Configuring the Clustered Environment ......................................................... 53
- Considerations for Using Contract Management in a Clustered Environment ... 55
Preface

In this chapter

Contract Management Overview
Contract Management (v13.0)
Media Pack
Contract Management Documentation
About this Manual
Contacting Customer Support

Contract Management is contract-control software designed to help you manage your projects more easily. From submittals to change orders, all the facts about contracts and documents related to your project are at your fingertips.

This manual describes how to install and configure Contract Management.
Contract Management Overview

Contract Management is a browser-based product that enables project users to interactively review, update, and comment on documents on which they need to take action. With the help of a Web browser, Contract Management grants real-time access to a Contract Management project database across an intranet or the Internet.

Contract Management Database Server  The database server stores your project data. Web clients access project data through the Contract Management Web Server. You can run Contract Management with an Microsoft SQL or Oracle database.

Microsoft SQL Server is not provided as part of the Contract Management installation. To use Contract Management with a Microsoft SQL database, install Microsoft SQL before installing Contract Management.

Requirements of the Contract Management Web and Application Servers

- Internet access
- Firewall configured to allow only HTTP requests to the port and TCP/IP address of the Web Server.
- Microsoft Office, including Microsoft Word, installed on the Contract Management Web Server and Application Server before installing Contract Management software, to ensure the proper functioning of the Letters module.
- Microsoft SQL Server, installed prior to the Contract Management installation.

**Required Folders**  The Contract Management Web Server requires access to a number of folders on your LAN that contain your Contract Management reports, forms, and attachments.

<table>
<thead>
<tr>
<th>Contract Management Web Server</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>\Program Files\Oracle\Contract Management</td>
<td>Server components</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reports and Forms default folders</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>\Program Files\Oracle\Contract Management\Reports</td>
<td>Contract Management's report files</td>
</tr>
<tr>
<td>\Program Files\Oracle\Contract Management\Forms</td>
<td>Contract Management's form files</td>
</tr>
<tr>
<td>\Program Files\Oracle\Contract Management\Image files used by reports and forms.</td>
<td>Image files used by reports and forms.</td>
</tr>
</tbody>
</table>

**Supported Operating Systems for Contract Management 13.0**

The supported operating system information is listed in the Tested_Configurations.htm document that is available on the physical media or from the download location.

**Upgrade Information**

This manual covers upgrades from Expedition Professional version 10.0 to Contract Management 13.0. For assistance in upgrading previous versions of Expedition Professional to Contract Management 13.0, contact Contacting Customer Support.

Upgrade existing Microsoft SQL databases before installing Contract Management.
Contract Management (v13.0) Media Pack

This media pack includes the *Quick Install Guide*, along with the Contract Management Application zip file. This zip file includes:

- All files necessary to install Primavera Contract Management.
- All files necessary to install and use Oracle Express with Primavera Contract Management.
- All manuals and technical documents related to the installation, administration, and use of Primavera Contract Management.

The Primavera Contract Management Media Pack is delivered on the Oracle E-Delivery Web site.
Contract Management Documentation

Contract Management documentation consists of the following:

**Contract Management 13.0 Installation and Configuration Guide for Oracle**  Explains how to install and configure Contract Management for Oracle and to convert data from previous versions of Contract Management. The network or database administrator responsible for the initial installation of Contract Management, ongoing maintenance of the system and database, and general troubleshooting should read this manual.

**Contract Management 13.0 Installation and Configuration Guide for Microsoft SQL Server**  Explains how to install and configure Contract Management for Microsoft SQL Server and to convert data from previous versions of Contract Management. The network or database administrator responsible for the initial installation of Contract Management, ongoing maintenance of the system and database, and general troubleshooting should read this manual.

**Contract Management Online Help**  This is an integrated comprehensive online help system that supplements the printed documentation. The help system is available while using the software for quick access to information about fields, commands, and dialog boxes. Help also includes step-by-step procedures for performing functions, and supplies answers to common questions. The Table of Contents provides a starting point for many major topics. You can also use Help’s powerful Search and Index features to find topics related to any text you enter. Click **Help** for a list of all procedures contained in Help.

**Contract Management User’s Guide**  Explains how to manage and monitor paperwork from initial contracts through the last change order. All individuals who use Contract Management should read this guide, even if they are already familiar with previous versions of Contract Management.

**Other Documentation**  The Contract Management physical media or download location contains additional information in the folder, documentation.

*InfoMaker.pdf helps you use InfoMaker, the report writer included with the Contract Management software.*
Several areas of Contract Management can be customized, such as the Control Center, document names, and document field labels. The examples throughout this manual and in Help use the default settings shipped with Contract Management.


**About this Manual**

This manual guides you through the installation of Contract Management 13.0, whether you are installing Contract Management for the first time or upgrading from a previous version of Contract Management. Anyone who is responsible for installing Contract Management should read this manual. Whether you are a network administrator or user, this manual contains the information you need to set up Contract Management in your environment.

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preparing for Installation</td>
<td>Describes tasks required to be completed prior to your Contract Management installation.</td>
</tr>
<tr>
<td></td>
<td>Explains how to migrate or upgrade your existing databases before upgrading your software, or to create new databases and install the J2SE before installing Contract Management for the first time, and how to configure your Web server before upgrading your existing Contract Management installation.</td>
</tr>
<tr>
<td>Configuring WebLogic for Microsoft SQL Server Databases</td>
<td>Explains how to install and configure the WebLogic application server for the Microsoft SQL Server database used with Contract Management.</td>
</tr>
<tr>
<td>Installing Contract Management on a Web Server</td>
<td>Describes tasks required to install Contract Management 13.0 for the first time.</td>
</tr>
<tr>
<td>Upgrading to Contract Management from a Previous Version</td>
<td>Describes tasks required to upgrade your existing installation to Contract Management 13.0.</td>
</tr>
<tr>
<td>Configuring Contract Management for a WebLogic Cluster</td>
<td>Describes tasks required to configure Contract Management 13.0 for a WebLogic Cluster environment.</td>
</tr>
<tr>
<td>Viewing and Modifying Contract Management Settings</td>
<td>Explains how to run the Primavera Administrator utility to modify your current Contract Management database and configuration settings.</td>
</tr>
<tr>
<td>Configuring WebLogic for Microsoft SQL Server Databases</td>
<td>Explains how to install and configure the WebLogic application server for the Microsoft SQL Server database used with Contract Management.</td>
</tr>
<tr>
<td>Installing InfoMaker 10.5</td>
<td>Explains how to install InfoMaker 10.5 for use with Contract Management reports and forms.</td>
</tr>
</tbody>
</table>
## Chapter Contents

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Installing and Configuring the Oracle Primavera SharePoint Connector</strong></td>
<td>Explains how to install and configure the Oracle Primavera SharePoint Connector to enable Microsoft SharePoint to integrate with Contract Management.</td>
</tr>
<tr>
<td><strong>Setting Up the Contract Management Environment</strong></td>
<td>Explains how to add users, set up attachments, reports, and forms, display report titles with international characters, run Contract Management as a user account, add new databases to the Contract Management Web server, and reconfigure the Contract Management Web server.</td>
</tr>
<tr>
<td><strong>Configuring the Oracle Content Repository for Use with Contract Management</strong></td>
<td>Explains how to configure the Oracle content repository for use with Contract Management.</td>
</tr>
</tbody>
</table>
Contacting Customer Support

For instructions on how to submit a service request for technical support for your products, go to:

http://www.oracle.com/primavera/support.html

This page provides the latest information for contacting support and the support renewals process.

Contract Management databases contain calculations called stored procedures. Although a Contract Management database administrator has the ability to modify these procedures, changing them is not recommended. Modifying these procedures voids your Primavera Customer Support agreement.
Preparing for Installation

<table>
<thead>
<tr>
<th>In this chapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overview</td>
</tr>
<tr>
<td>Creating New Databases</td>
</tr>
<tr>
<td>Upgrading Your Databases</td>
</tr>
<tr>
<td>Migrating Databases</td>
</tr>
<tr>
<td>Configuring a JBoss Application Server</td>
</tr>
<tr>
<td>Configuring a WebLogic Application Server</td>
</tr>
</tbody>
</table>

This chapter describes how to complete required tasks before installing the current version of Contract Management.

Prior to installing the latest version of Contract Management, you are required to create a new Microsoft SQL database to use with a first-time installation, upgrade existing databases, configure your application server, and install the latest J2SE.
Overview

Before starting the Contract Management 13.0 installation, complete the appropriate tasks in this chapter. For the full list of tested configurations, see the Tested_Configurations.htm document in the Documentation folder of the Contract Management physical media or download.

For a New Installation of Contract Management 13.0

If your Contract Management 13.0 installation is a completely new installation, with no previous versions of the software installed previously, do the following:

1. Create your Microsoft SQL database for a new Contract Management installation.
   See “Creating New Databases” on page 18 for information on how to configure your Microsoft SQL database.
   This step is optional but recommended. The installation process installs the J2SE development kit if you opt not to install it in advance.
3. Configure your JBoss or WebLogic application server. See “Configuring a JBoss Application Server” on page 23.
4. By this step, you have completed all installation pre-requisites, and you can install Contract Management. For information, see “Installing Contract Management” on page 39.
For an Upgrade from a Previous Software Installation  If you are upgrading from a previous version of Contract Management, do the following:

For information about upgrading from Expedition 9.0 or a previous version, contact Contacting Customer Support.

For information about migrating Oracle or Microsoft SQL Server databases, contact Oracle Primavera Support.

1 Upgrade existing GROUP and ADMIN databases. See “Upgrading Your Databases” on page 21.


   This step is optional. The installation process installs the J2SE development kit if you opt not to install it in advance.

3 Configure your JBoss or WebLogic application server. See “Configuring a JBoss Application Server” on page 23, or “Configuring a WebLogic Application Server” on page 25.

   Configuring the application server is required for all installations (new or upgrade).

4 By this step, you have completed all upgrade prerequisites, and you can install Contract Management. For information, see “Upgrading to Contract Management from a Previous Version” on page 45.
Creating New Databases

For a new installation of Contract Management 13.0 used with a Microsoft SQL database, you must create the database before installing the software application.

When creating Microsoft SQL Server databases, the databases are created in the Microsoft SQL server default data file location. This cannot be changed. It is important to ensure that the drive on which the databases will reside has sufficient space to accommodate them.

Creating databases through the Database Wizard generates a log file that may be stored locally or on a network drive depending on how you run the Database Wizard.

Running the Database Wizard from the Content Management physical media causes this log file to be written to the local Temp directory on your computer.

To run the Database Wizard from a network drive, you must have write access to the network drive in order for the log file to be written to the network drive. Otherwise, the file is written to the local Temp directory on your computer.

Prerequisites Before creating the databases:

1 You must have the Microsoft SQL Server Client installed.

2 If you will use a named instance, you must create that instance before continuing with the following procedures.

Open the Database Setup Wizard

1 From your Contract Management physical media or download location, run setup.exe.

The Considerations.htm file and the Welcome to Primavera Contract Management dialog box are displayed.

2 Read or close the Considerations.htm file.

3 In the Welcome to Primavera Contract Management dialog box, click Configure Primavera Contract Management Databases.
4 In the Welcome to Primavera Contract Management dialog box, click **Database Configuration Utility** to launch the Database Wizard.

**Create a New Database**

1 In the Install or Upgrade Primavera Contract Management applications dialog, click the **Install Database** option, click **Microsoft SQL Server/SQL Express** as the Server type, and click the **Next** button.

2 In the Select application database dialog, select the type of database to create: **Group Database** or **Administration Database**, and click **Next**.

3 In the Connection Information dialog:
   a) Enter the DBA user name. This is the name of the database administrator.
   b) Enter the DBA password. This is the password of the database administrator.
   c) Enter the Database host address. This is the database host machine where Microsoft SQL Server runs. This can be the host name or IP address.
   d) Enter the Database host port. The default is 1433.
   f) Click **Next**.

4 In the Configure Microsoft SQL Server/SQL Express Database dialog, enter the following if you are not choosing the defaults:
   a) Enter the Database name you are creating.
   b) Enter the Data file path. This is where the path to where the database server stores data. It is used primarily for export.
   c) Enter the Log file path.
   d) Select the Database code page from the drop-down list. This is the language for the database.
   e) Click **Next**.

5 In the Configurations Options dialog:
   a) Mark the **Load sample data** checkbox to include sample data when the database is created, or leave it blank to create the database without sample data.
b) If the database will be in a multi-byte language (Chinese or Japanese), mark the **Use unicode** checkbox.

c) Click the **Install** button

6 In the Finish dialog box, do one of the following:

a) Click **Next** return to the Install or Upgrade Primavera Contract Management applications dialog to create another database. Repeat steps 1 through 6 to create another database.

b) Click **Finish** if you are finished creating databases.
Upgrading Your Databases

Use the procedures in this section to upgrade your existing Microsoft SQL Server GROUP and ADMIN databases to ensure that they will work properly following installation. This procedure also applies when installing a Service Pack.

Before upgrading the database in your production environment:
- Back up your databases, reports, and forms.
- Complete the upgrade in a test environment.

Upgrade an Existing Contract Management Database

If you have not previously started the database wizard, see “Open the Database Setup Wizard” on page 18.

1. In the Install or Upgrade Primavera Contract Management applications dialog, click the Upgrade Database option, click Microsoft SQL Server/SQL Express as the Server type, and click Next.

2. In the Connection Information dialog box:
   a) Enter the Administrative user name. This is the user name of the database administrator.
   b) Enter the Administrative password. This is the password of the database administrator.
   c) Enter the Database host address. This is the database host machine where the Microsoft SQL server runs.
   d) Enter 1433 as the Database host port.
   e) Enter the Database name.
   f) Click Next.

3. In the Ready to Begin Upgrading Data dialog, click Yes, upgrade my database, and click the Upgrade button.

4. When the Finish dialog displays, do one of the following:
   a) Click Next to return to the Install or Upgrade Primavera Contract Management applications dialog to upgrade another database. Repeat steps 1 through 4 of this procedure to upgrade the database.
   b) Click Finish when finished upgrading the databases.
Migrating Databases

Contract Management 12.1 and previous versions supported Oracle, Microsoft SQL, and Sybase Adaptive Server Anywhere (ASA) databases. Contract Management 13.0 no longer supports the Sybase ASA database.

Customers must migrate their Sybase databases to a supported platform before upgrading to Contract Management 13.0 or later. For information on migrating Sybase databases, see the Migration from Sybase Installation Instructions.pdf document available from your Contract Management physical media or download location.

For information about migrating Admin and Group databases from Oracle to Microsoft SQL, or from Microsoft SQL to Oracle, for Contract Management, contact Oracle Primavera Support.
Configuring a JBoss Application Server

If you will use a WebLogic application server, instead of a JBoss application server, see "Configuring a WebLogic Application Server" on page 25.

JBoss 5.0.1.GA must be installed if you will use JBoss as your application server. Follow the directions in this section to install and configure JBoss 5.0.1.GA.

**Download the JBoss zip file** To download JBoss 5.0.1 GA, compiled/packaged for JDK6, do the following from the http://jboss.org web site:

1. Go to Projects, Servers, and choose Application Servers.
2. Click the Downloads link to display the JBoss Application Servers window.
3. Find 5.0.1.GA on the JBoss Application Servers window, and click the Download link.
4. From the list of JBoss 5.0.1.GA downloads, click the jboss-5.0.1.GA-jdk6.zip link to download the file.
5. Unzip the downloaded JBoss file to the <JBOSS INSTALL LOCATION> (for example, C:jboss-5.0.1.GA). The path name cannot contain any spaces.

---

**Do not download the files into a directory that is in the existing Contract Management directory path.**

Create a Domain Specific to Contract Management

1. Go to <JBOSS INSTALL LOCATION>\server.
2. Choose the folder default.
3. Press Ctrl-C to copy the folder, and then press Ctrl-V. This creates a folder named Copy of Default.
4. Rename the Copy of Default folder to cm, which is the JBoss domain specific to Contract Management.
5. Save and close the file.

**Edit the run.bat file** When running Contract Management as an application (running Expedition.bat), you can modify the minimum and maximum memory usage by updating the run.bat file.
If you are running Contract Management as a Windows service, see knowledge base article 913791.1 on the https://support.oracle.com web site for instructions, instead of performing the steps in this section.

1. Go to `<JBoss Install Location>/bin`, right-click on `run.bat`, and choose `edit`.

2. Replace the line:

```
set JAVA_OPTS=%JAVA_OPTS% -Xms128m -Xmx512m
```

with the following:

```
set JAVA_OPTS=%JAVA_OPTS% -Xms256m -Xmx1024m
-XX:PermSize=128m -XX:MaxPermSize=128m
```

*The preceding is case-sensitive, and should be all on the same line. Because of the format restrictions of this document, it had to be shown on two lines.*

3. Save and close the file.
Configuring a WebLogic Application Server

Follow the instructions in this section if you will use WebLogic as your application server. For the full list of tested configurations, see the Tested_Configurations.htm document in the Documentation folder of the Contract Management physical media or download.

Prerequisites Complete the following steps:

1. Install WebLogic. See the Tested_Configurations.htm document for the supported versions.
2. Install a tested and supported JDK. See the Tested_Configurations.htm document for the supported versions.

Create a new domain specific to Contract Management Do the following to create a new domain specific to Contract Management. This domain will use the selected JDK, and will contain the Contract Management configuration files.

Do not create the domain in a directory that is in the existing Contract Management directory path.

1. Go to Start, All Programs, Oracle WebLogic, WebLogic Server, Tools, and click ConfigurationWizard to run the WebLogic Configuration Wizard.
2. In the Welcome window, select Create a new WebLogic domain and click Next.
3. In the Select Domain Source window, click Next to accept the default selections.
4. In the Configure Administrator Username and Password window, enter the user name and password information and click Next.
5. In the Configure Server Start Mode and JDK window, select Production Mode in the left pane. Select an appropriate JDK in the right pane and click Next.
6. In the Customize Environment and Services Settings window, click Next.
7. In the Create WebLogic Domain window, enter the domain and location information and click Create.
8 In the Creating Domain window, mark Start Admin Server and click Done.

9 When prompted, enter the username and password that you entered in step 4.

**Configure the WebLogic Server** Do the following to configure the WebLogic server:

1 On the server where you installed WebLogic, in the <domain_home>\bin directory, open the startWebLogic.cmd file in a text editor (such as Notepad).

2 Insert one of the following statements after `call "%DOMAIN_HOME%\bin\setDomainEnv.cmd"` to update the PATH variable:
   
a) If you are using Sun JVM, enter the following:
   
   ```
   set PATH=%DOMAIN_HOME%\bin;%PATH%
   ```
   
   b) If you are using BEA JRockit JVM, enter the following:
   
   ```
   set PATH=%DOMAIN_HOME%\bin;%JAVA_HOME%\jre\bin\jrockit;%PATH%
   ```
   
   The preceding is case-sensitive, and should be all on the same line. Because of the format restrictions of this document, it is shown on two lines.

3 Update the first occurrence of the SAVE_JAVA_OPTIONS variable as follows:

   ```
   set SAVE_JAVA_OPTIONS=
   -Djavax.xml.stream.XMLInputFactory=weblogic.xml.stax.XMLStreamInputFactory
   -Dcom.sun.xml.namespace.QName.useCompatibleSerialVersionUID=1.0 -Djava.library.path="%PATH%" %JAVA_OPTIONS%
   ```
   
   The preceding is case-sensitive, and should be all on the same line. Because of the format restrictions of this document, it is shown on multiple lines.

4 Update the first occurrence of the SAVE_CLASSPATH variable to append the jar files required to run reports. This CLASSPATH variable must exist, shown as follows:
set SAVE_CLASSPATH=%DOMAIN_HOME%\lib\mail.jar;
%DOMAIN_HOME%\lib\pbjdbc12105.jar;
%DOMAIN_HOME%\lib\sqljdbc.jar;%CLASSPATH%;

The preceding is case-sensitive, and should be all on the same line. Because of the format restrictions of this document, it is shown on multiple lines.

5 Save the changes you made to the startWebLogic.cmd file.

6 Modify memory settings in the setDomainEnv.cmd file to maximize performance. To do this, find and edit the first occurrence of the set MEM_ARGS line so that values can be set for NewSize, MaxNewSize and SurvivorRatio.

For instance, if the total heap size is 1024, NewSize and Max NewSize should be set to 256, which would then require a value of 8 for SurvivorRatio.

The complete line would look similar to the following:

```
set MEM_ARGS=-XX:NewSize=256m -XX:MaxNewSize=256m -XX:SurvivorRatio=8 -Xms1024m -Xmx1024m
```

where:

-XX:NewSize= is the minimum size of new generation heap (sum of eden & two Survivor spaces)

-XX:MaxNewSize= is the maximum size of the new generation heap

-XX:SurvivorRatio= is the size of survivor space (ratio of eden to Survivor space)

The Young generation area equals the sum of eden and 2 Survivor spaces.

If you are using JRockit JDK, only modify the appropriate existing -Xms and -Xmx values.
Step 6 assumes that you are using WebLogic 10g. If using WebLogic 11g, search for and modify the first occurrence of the set `WLS_MEM_ARGS_32BIT` line for a SUN JDK and the second occurrence of the set `WLS_MEM_ARGS_32BIT` line for a JRockit JDK.

7 Save the changes to the `setDomainEnv.cmd` file.

8 After configuring the WebLogic application server, continue with the steps in one of the following sections:
   - “Upgrading to Contract Management from a Previous Version” on page 45.
Configuring WebLogic for Microsoft SQL Server Databases

In this chapter

- Prerequisites
- Configuring the Data Source
- Deploying Contract Management
- Configuring the Contract Management Port Specification

Use this chapter to configure WebLogic when using Contract Management with Microsoft SQL Server databases.
Prerequisites

Do the following before configuring WebLogic.

1. Make sure that you have met all the prerequisites for using WebLogic with Contract Management. For information, see “Configuring a WebLogic Application Server” on page 25.

2. In the Primavera Administrator utility, set the properties for the content repository (Oracle, Apache Jackrabbit, or Microsoft SharePoint). For more information, see “Viewing and Modifying Contract Management Settings” on page 67.

3. Start WebLogic from <domain_home>\startWebLogic.cmd.

4. Login to admin console at url (for example: http://localhost:7001/console).

5. Click Lock & Edit.

6. Select Data Sources from Services\JDBC.

7. Click New in the Data Sources dialog box.

8. See “Configuring the Data Source” on page 31 to complete the WebLogic Data Source configuration.
Configuring the Data Source

Overview This section describes how to set up the data source for WebLogic when the Contract Management database is a Microsoft SQL database, and if you have configured a P6 EPPM Schedule database as part of your Contract Management system installation.

Complete all the following procedures for each database:

- Once for the GROUP database. You are required to have at least one group database.

*Contract Management only supports one group database in a WebLogic configuration.*

Through the Contract Management installation wizard, you can create one of the default databases, CMDEMO or CMPROJ, with sample data.

- Once for the ADMIN database, also referred to as EXPADMIN.

- Once for the P6 EPPM Schedule database if it is configured with your system. This database is referred to as the PMDB.

*In this section, CMDEMO and CMPROJ are used as the group database names. While they are the default GROUP database names, they are provided only as examples of possible GROUP database names.*

Configure JDBC Data Source Properties Complete the following steps in the JDBC Data Source Properties dialog box:

1. Set the Name field to one of the following (depending on which data source you are setting up):
   - CMDEMO for the CMDEMO database
   - CMPROJ for the CMPROJ database
   - EXPADMIN for the EXPADMIN database
   - PMDB for the PMDB
2 Set the JNDI Name field to jdbc/<database_name>, where <database_name> is:
   • CMDEMO for the CMDEMO database
   • CMPROJ for the CMPROJ database
   • EXPADMIN for the EXPADMIN database
   • PMDB for the PMDB
3 Set the Database Type field to MS SQL Server.
4 Set the Database Driver field to Microsoft's MS SQL Server Driver (Type 4) Version: 2005.
5 Click Next. The Transaction Options dialog box displays.

Set Transaction Options

1 If you are configuring the Admin database, unmark the Supports Global Transactions checkbox, and click Next.
2 If you are configuring the group database, do the following:
   a) Mark the Supports Global Transactions checkbox.
   b) Click the One-Phase Commit radio button.
   c) Click Next. The Connection Properties dialog box displays.

Contract Management only supports one group database in a WebLogic configuration.

Set Connection Properties

1 Set the Database Name field to one of the following:
   • The Database name for the Contract Management ADMIN database. This is EXPADMIN.
   • The Database name for the Contract Management GROUP database. This is CMDEMO or CMPROJ.
   • The Name of the P6 EPPM Schedule Database for the PMDB.
2 Set the Host Name field to <database_hostname>, where <database_hostname> is the host on which Microsoft SQL Server is installed.
3 Set the Port field to <database_port>, where <database_port> is the port number of the host on which Microsoft SQL Server is installed.
4 Set the **Database User Name** field to:
   - `exp` for the EXPADMIN database.
   - `exp` for each GROUP database (CMDEMO or CMPROJ).
   - `privuser` of the PMDB.

5 Set the **Password** field to:
   - `sql` for the EXPADMIN database.
   - `sql` for each GROUP database (CMDEMO or CMPROJ).
   - `privuser` for the PMDB.

6 Confirm the Password.

7 Click **Next**. The Test Database Connection dialog box displays.

8 Continue with the steps in **Test the Database Connection**.

**Test the Database Connection**

1 Click **Test Configuration** to verify that connection is successful.

2 Click **Next**. The Select Targets dialog box Displays.

3 Continue with the steps in **Select Targets**.

**Select Targets**

1 Check `<server_name>`, where `<server_name>` is the target server for WebLogic.

2 Click **Finish**.

3 After you have finished setting up all data sources for WebLogic, deploy Contract Management from the WebLogic Server Administration Console. See “Deploying Contract Management” on page 34.
Deploying Contract Management

You cannot perform the steps in this procedure until after you have installed Contract Management. You must also restart the WebLogic application server.

When you finish setting up both the CMDEMO and EXPADMIN data sources for WebLogic, complete the following steps from the WebLogic Server Administration Console:

1. In the WebLogic Server Administration Console, click **Activate Changes**.
2. Click **Lock & Edit**.
3. Click **Deployments** from the left hand pane.
4. Click **Install** in the **Deployments** section of the right hand pane.
5. In the Install Application Assistant section of the right hand pane, in the Location section, choose the expedition.ear file from C:\Program Files\Oracle\Contract Management\Ear folder, and click **Next**.
6. In the Install Application Assistant section of the right hand pane, in the Choose targeting style section, click **Install this deployment as an application**, and click **Next**.
7. In the Install Application Assistant section of the right hand pane, in the Optional Settings section at the top of the pane, click **Finish**.
8. In the WebLogic Administration Console window, the Summary of Deployments displays in the right hand pane. In the left hand Change Center pane, click **Activate Changes** at the top of the pane. If you are not using WebLogic 11g, go to step 10.
9. For WebLogic 11g, do the following:
   a) Restart the WebLogic server instance, and log back into the Administration Console site.
   b) Click **Lock & Edit**.
   c) From the Summary of Deployments page, mark the check box next to the expedition deployment and click **Update**.
   d) In the **Update Application Assistant** page, click the **Change Path** button to the right of **Deployment plan path**.
e) Browse to the CM13SP1_WL11gR1_DeploymentPlan.xml file and click Next. This file is located in \Weblogic directory on the installation media or download.

Click the radio button next to Update this application in place with new deployment plan changes..., and click Next. Review the Source path: and Deployment plan path: and click Finish.

g) In the left hand Change Center pane, click Activate Changes at the top of the pane.

10 In the Summary of Deployments section of the right hand pane, mark the checkbox next to the expedition deployment, click Start under Deployments, and choose Servicing all requests from the drop-down list.

11 In the Start Application Assistant in the right hand pane, click Yes to confirm that you want to start the deployment.

The steps in this section provide the preferred method of deploying Contract Management.
Configuring the Contract Management Port Specification

You cannot perform the steps in this procedure until after you have installed Contract Management.

When Contract Management is not running under the default port (80), you must manually update the configuration file containing the port designation.

You must set the Web server WebPort option to the appropriate value. Log on to the Primavera Administrator application, and do the following:

1. Expand the tree to the ADMIN folder by selecting **Contract Management 13.0 Settings > Web Server**.

2. Triple-click, and enter a value for each of the following options:
   - CharacterEncoding
   - CompressionEnabled — true or false
   - ExpeditionWebServiceName
   - WebApplicationName — This is EXPONLINE.
   - WebProtocol
   - WebPort
   - WebServerName
   - sessiontimeout
   - xmlsessiontimeout

3. Update the following line, and replace the port number with the appropriate port number.

   WebPort=80

   80 is the default WebPort for JBoss.

   7001 is the WebPort for WebLogic.

4. Click **Save Changes**.
This chapter describes how to install Contract Management 13.0 using the multi-user, Web-based installation process, and with the option to connect to a P6 EPPM schedule database.

The instructions in this chapter only apply to installations where there is no previous version of Contract Management installed.

For information about installing Contract Management when upgrading from a previous version, see “Upgrading to Contract Management from a Previous Version” on page 45.
Prerequisites

Prior to completing the procedures presented in this chapter, complete all procedures in the “Preparing for Installation” on page 15. After completing all pre-installation tasks, you are ready to install your Contract Management software.
Installing Contract Management

Start the Installation

Before you begin the installation, you must configure your application server. This is described in “Configuring a JBoss Application Server” on page 23, and in “Configuring a WebLogic Application Server” on page 25.

1 From the Contract Management physical media or download location, run setup.exe. A document titled “Important Information” is displayed.

2 Read the document, and then close it by clicking the X in the upper right-hand corner.

3 In the Welcome to Contract Management dialog box, select Install Primavera Contract Management.

4 Select Web Server Installation, and click Next. This installs the Contract Management software. The Contract Management database must already be created.

5 On the “Welcome to InstallShield Wizard for Oracle Primavera Contract Management” dialog, click Next.

The stand-alone User Installation option will only install Oracle XE. This option is not available for Microsoft SQL Server.

Select Your Application Server Location and Domain

1 In the Select the Web Server Type dialog box, select one of the following options, and click Next:
   - JBoss – Go to step 2 after you click Next.
   - WebLogic – Go to step 3 after you click Next.

2 To select the JBoss location and domain:
   a) In the Choose JBoss Server Folder dialog box, click Browse, navigate to the location where you created the cm domain.
   b) Click Next, and then go on to “Configure the Database Connection” on page 40.

3 To select the WebLogic location and domain:
Installing Contract Management on a Web Server

a) Click **Browse** to navigate to the location of the home folder in which to store the configuration files.

b) Click **Next**, and then go on to **Configure the Database Connection**.

**Configure the Database Connection**

1 In the **Contract Management Database To Be Used** dialog box, select **Microsoft SQL Server**, and click **Next**.

   The InstallShield wizard detects the Microsoft SQL database server installed on your system prior to the installation, and prompts you to enter the Microsoft SQL Server database administrator (SA) password.

2 In the **Enter the Microsoft SQL Server Information** dialog box, enter the following information, and click **Next**:

   - **Group database** – The name of the database to connect to (for example, CMPROJ or CMDEMO). This field is pre-filled with the name of the database you configured prior to installation. After installation you can configure additional project groups via the Server Configuration in the Primavera Contract Management Administration application.
   - **Computer** – The name of the host where the projects reside. This can be an alphanumeric name or an IP address.
   - **Port** – The port number on the host where the database resides. This field is pre-filled with the default port number, 1433.

3 In the **Enter the Contract Management Database User Information** dialog box, enter the following information, and click **Next** (or click **Browse** and select a new location before entering the information),

   - **User name** – The user name used to access the database.
   - **Password** – The password used to access the database.

4 Continue with the steps in “Select a Connection to a Schedule Database” on page 40.

**Select a Connection to a Schedule Database** In the Primavera Schedule Database to be Used dialog box, select one of the following options and click **Next**:
None (no scheduling tool used). Use this option when you will not connect to the P6 EPPM schedule database. Continue with the steps in “Choose the Destination Location of Contract Management Files” on page 42.

Connect to the P6 EPPM Schedule Database on Oracle. Continue with the steps in “Enter the Information about the Schedule Database on Oracle” on page 41.

Connect to the P6 EPPM Schedule Database on Microsoft SQL. Continue with the steps in “Enter the Information about the Schedule Database on Oracle” on page 41.

Enter the Information about the Schedule Database on Oracle

1 In the Primavera Schedule Database dialog box, enter the following database server information:
   • SID Name – The name of the Oracle database on the P6 EPPM system.
   • Computer Name – The name of the host on which the database resides. This can be either the alphanumeric name or the IP address.
   • Port – The number of the port on the P6 EPPM host. The default is 1521.

2 The next dialog box prompts you to enter the User Name and Database Password of the Oracle database on the P6 EPPM host.
   • Enter the User Name. The default is privuser.
   • Enter the Database Password, and click Next.

3 Continue with the steps in “Configure the Schedule Database Connection with Contract Management” on page 42.

Enter Information about the Schedule Database on Microsoft SQL Server

1 In the Primavera schedule database dialog box, enter the following database server information, and click Next:
   • Database Name – The name of the P6 EPPM database to which you are connecting.
   • Computer Name – The name of the host on which the P6 EPPM database resides. This can be either the alphanumeric name or the IP address.
• Port – The port number of the P6 EPPM database host to which Contract Management connects.

2 Continue with the steps in Configure the Schedule Database Connection with Contract Management.

Configure the Schedule Database Connection with Contract Management

1 Enter the User Name and Database Password of the Project Manager database to which you are connecting, and click Next.

The User Name displayed is privuser.

The next dialog box prompts you to enter the URL to the Web server configured with the schedule database.

2 If you are not using P6 Web Access, click Next to accept the default URL and continue. Otherwise, do the following:
   • In place of the <P6 Web Access server address> part of the URL, enter the name of the P6 EPPM web server host. Use the format hostname:portnumber.
   • Remove the angle brackets, and leave the rest of the path intact.
   • Enter the URL, and then click Next. For example:

   http://<HOST>:<PORT>/primaveraweb/comp/showproject

   In the preceding example, replace <HOST> with the host name, and replace <PORT> with the port number of the P6 EPPM web server host. The brackets are not part of the name.

Choose the Destination Location of Contract Management Files

In the Choose Destination Location dialog box, complete one of the following tasks:

■ Click Next to install Contract Management in the default location, C:\Program Files\Oracle\ContractManagement.

■ Click Browse, select a new location, and click Next.

Configure Locations for Reports and Forms
1 In the Contract Management Reports Folder dialog box, click **Next** to accept the default location for the Contract Management reports.

2 In the Contract Management Forms Folder dialog box, click **Next** to accept the default location for the Contract Management forms.

3 In the Contract Management Reports and Forms Images Folder dialog box, click **Next** to accept the default location for the Contract Management reports and forms images.

4 Continue with the steps in “Configure Your SMTP Server” on page 43.

**Configure Your SMTP Server**

In the Enter your SMTP Server dialog box, enter the name of your SMTP server and click **Next**.

**Complete the Installation**

1 In the Start Copying Files dialog box, review the information, and click **Next**.

2 If none of the following steps are required to be completed, a message displays that the installation is complete. Click **Finish**. Otherwise:
   - If the J2SE Development kit is not already installed on your system, the installation wizard prompts you to install it. Click **Next**.
   - If you previously installed Microsoft SQL Server Express, the Enter Port Number to Use for Contract Management dialog box displays. Type the port number used by the MSSQL database to connect to Contract Management, and click **Next**.

   The Setup Status dialog box display. Messages display to inform that the EXPADMIN, CMDEMO, and CMPROJ databases are created.

3 When the message displays that the installation is complete, click **Finish**.
Locating the Database Port Number when Using Microsoft SQL Server Express

Port number 1433 is the default port number for MSSQL. If port number 1433 is already in use at the time of installation, Microsoft SQL Express automatically assigns a port number, that can be viewed with other related information in the Microsoft SQL Server Configuration Manager.

Locate the MSSQL Port Number in Microsoft SQL Server Configuration Manager

1. From the Microsoft Windows task bar, select Start > All Programs > Microsoft SQL Server 2005 > Configuration Tools > SQL Server Configuration Manager.

2. In the SQL Server Configuration Manager (Local) tree, expand SQL Server 2005 Network Configuration.

3. Double-click Protocols for PRIMAVERA.

4. In the Protocol Name column, locate TCP/IP. Ensure that its Status is Enabled.

   **If the status of the TCP/IP attribute is Disabled, restart Microsoft SQL Server to generate a new IP address and port number for the Microsoft SQL database.**

5. Double-click TCP/IP.

6. In the TCP/IP Properties dialog box, select the IP Address tab.

7. Scroll to the IPAll section dialog box. The TCP Dynamic Ports field displays the port number of your Microsoft SQL database for Contract Management.

8. Returning to the Contract Management installation wizard, enter the port number in the Enter Port Number to Use for Contract Management dialog box, and click Next.
Upgrading to Contract Management from a Previous Version

In this chapter

- Prerequisites
- Upgrading an Existing Stand-Alone Installation

This chapter describes how to upgrade an existing Contract Management installation.

For information on installing Contract Management 13.0 when there are no previous versions installed, see “Installing Contract Management on a Web Server” on page 37.
Prerequisites

Prior to completing the procedures presented in this chapter, complete all procedures in the “Preparing for Installation” on page 15. After completing all pre-installation tasks, you are ready to upgrade your Contract Management software.

Contract Management 13.0 no longer supports the Sybase Adaptive Server Anywhere database. However, you can migrate an existing Sybase ASA database to Oracle or to Microsoft SQL Server. You must do this in your current version of Contract Management before you upgrade to Contract Management 13.0.

For information about upgrading to Contract Management 13.0 from Expedition 9.0 or previous versions, contact Contacting Customer Support.
Upgrading an Existing Stand-Alone Installation

See “Configuring a JBoss Application Server” on page 23 for JBoss application server installation information.

See “Upgrading Your Databases” on page 21 for information on upgrading your Contract Management databases.

Before You Begin  Before you can upgrade the Contract Management software for an existing stand-alone installation, you must first install the JBoss application server, and then specify a JBoss domain specific to Contract Management.

You must also upgrade your Contract Management databases.

Start the Installation

1  From the Contract Management physical media or download location, run setup.exe.

   A document called “Important Information” is displayed. Read the document, and then close it by clicking the X in the upper right-hand corner.

2  In the Welcome to Contract Management dialog box, click Install Primavera Contract Management.

3  Select Upgrade Installation.

4  In the Welcome to the InstallShield Wizard for Contract Management dialog box, click Next.

5  In the Question dialog box, click Yes to upgrade the existing Stand-alone Web Server application to Contract Management 13.0.

Select Your JBoss Domain

1  In the Choose JBoss Server Folder dialog box, click Browse, and navigate to the location where you created the cm domain.

2  Choose the location of the cm folder, and click Next.

Complete the Installation

1  In the Begin Contract Management Installation dialog box, review the information, and click Next.

2  If the J2SE Development kit is not already installed on your system, the installation wizard prompts you to install it. Click Next.

3  When the InstallShield Wizard Complete dialog box displays, click Finish.
Upgrading an Existing Web Server Installation

**Before You Begin** Depending on which type of Web server you will use, you must perform a number of preliminary steps before you can upgrade the Contract Management software.

- If you will use a JBoss Web server, you must first install the JBoss application sever, and then specify a JBoss domain specific to Contract Management.
- If you will use a WebLogic Web server, you must first install WebLogic in a domain specific to Contract Management.

You must also upgrade your Contract Management databases.

**Start the Installation**

1. From the Contract Management physical media or download location, run `setup.exe`.
   
   A document called “Important Information” is displayed. Read the document, and then close it by clicking the X in the upper right-hand corner.

2. In the Welcome to Contract Management dialog box, click **Install Primavera Contract Management**.

3. Select **Upgrade Installation**.

4. In the Welcome to the InstallShield Wizard for Contract Management dialog box, click **Next**.

5. In the **Question** dialog box, click **Yes** to upgrade the existing Web Server application to Contract Management 13.0.

**Select Your Application Server Domain**

1. If your application Web server is JBoss, do the following to select the JBoss location and domain:
   
   a) In the Choose JBoss Server Folder dialog box, click **Browse**, navigate to the location where you created the cm domain, and click **Next**.
b) When the Primavera Contract Management Database Upgrade Reminder dialog box displays, do one of the following:

- If you have already upgraded your databases, click Next.
- If you have not upgraded your databases, click Cancel. Then, upgrade the databases, and start the upgrade installation again.

c) Go to Configure the Database Connection.

2 If your application Web server is WebLogic, do the following to select the WebLogic location and domain:

a) Click Browse to navigate to the location of the home folder in which to store the configuration files, and click Next.

b) When the Primavera Contract Management Database Upgrade Reminder dialog box displays, do one of the following:

- If you have already upgraded your databases, click Next.
- If you have not upgraded your databases, click Cancel. Then, upgrade the databases, and start the upgrade installation again.

Configure the Database Connection

1 In the Enter the Microsoft SQL Server Information dialog box, enter the following information, and click Next:

- Group database name – Name of the database to connect to (for example, CMPROJ or CMDEMO). This field is pre-filled with the name of the database you configured prior to installation. After installation you can configure additional project groups via the Server Configuration in the Primavera Contract Management Administration application.

- Computer name – Name of the host where the projects reside. This can be an alphanumeric name or an IP address.

- Port – Port number on the host where the database resides. This field is pre-filled with the default port number, 1433.

2 In the Enter the Contract Management Database User Information dialog box, enter the following information and click Next (or click Browse and select a new location first before entering the information and clicking Next):

- User name – The user name used to access the database.

- Password – The password used to access the database.
Complete the Installation

1. In the Begin Contract Management Installation dialog box, review the information, and click Next.

2. If the J2SE Development kit is not already installed on your system, the installation wizard prompts you to install it. Click Next.

3. When the message displays that the installation is complete, click Finish.
Configuring Contract Management for a WebLogic Cluster

*In this chapter*

- Prerequisites
- Configuring the Clustered Environment
- Considerations for Using Contract Management in a Clustered Environment
- Configuring the Clustered Environment

Use this chapter if you will use Contract Management in a WebLogic cluster environment.
Prerequisites

Consult the WebLogic documentation for information on setting up a WebLogic cluster. This can be found at the following web site:

http://edocs.bea.com/wls/docs103/index.html

On the WebLogic Admin server:

1 Configure a domain specific to WebLogic, and install Contract Management on that server.
2 Create the required number of managed servers (nodes), and associate machines with each of the managed servers.
3 Do not install Contract Management on any of the managed servers.
Configuring the Clustered Environment

1. Make changes to `startManagedWebLogic.cmd`, instead of to `startWebLogic.cmd`, as specified in “Configuring a WebLogic Application Server” on page 25.

   It is recommended that you echo `classpath` and `Java_options` to ensure that the changes you make in step 1 are accurately made.

2. On each managed server machine, configure a domain specific to Contract Management that is identical to the one that you created for the Admin server.

3. On each managed server machine, make the same changes to `startManagedWebLogic.cmd` that you made in step one of this procedure.

4. On the server where you installed WebLogic, copy all the files in the `<Contract Management_domain_home>\bin` folder into the `<domain_home>\bin` folder on each of the managed server machines.

5. On the server where you installed WebLogic, copy all the files in the `<Contract Management_domain_home>\lib` folder into the `<Contract Management_domain_home>\lib` folder on each of the managed server machines.

6. On the server where you installed WebLogic, copy the `<Contract Management_domain_home>\com` folder to each of the managed server machines.

7. Start the Admin server, and each managed server machine.

8. Deploy the expedition.ear file on each managed server machine. This file is located in the `<Contract Management home>` folder.


   When selecting target servers for Contract Management, datasources target should be all servers in cluster.

After you finish steps 1 through 9, do the following:

1. Ensure that each managed server has an independent Jackrabbit home.
2. Ensure that reports and forms locations are shared from a single location.

3. Copy the `<Contract Management home>\HtmlTemplates` directory to all managed server machines in the same path. These must be synchronized when any modifications are made to them.

4. If you are adding attachments and are using the “not connected to server” configuration, all attachment directory setups must be either a UNC path or a mapped drive. For mapped drives, all managed servers must have the same mapping to the server.
Considerations for Using Contract Management in a Clustersed Environment

In a clustered environment, it is recommended that the following operations only be performed when no users (except the user performing these operations) are logged into Contract Management:

- Single Project Restore
- Project Delete
- Modifying, adding, or deleting custom fields
- Modifying, adding, or deleting cost code definitions
Using XML API in a Clustered Environment

**Passing the JSESSIONID**  If using XML API in a clustered environment, when any client application sends a request to the server, the first server response will contain a cookie called JSESSIONID.

The client application must store the cookie, and then must send that cookie with each subsequent request to the server.

**Choosing an Affinity algorithm**  When using XML API in a clustered environment, you must choose an Affinity algorithm.

1. On the WebLogic Server Administration Console, in the Change Center, click the **Lock & Edit** button.
2. In the **Environment** section of the Home Page, click Clusters.
3. On the Summary of Clusters page, click the link for the appropriate cluster.
4. On the Settings for `<cluster name>` page, click the **Configuration** tab, and click the **General** subordinate tab.
5. From the drop-down list next to **Default Load Algorithm**, choose an affinity algorithm. It must be an Affinity algorithm (for example, random-affinity).
6. Click the **Save** button to save the settings.
7. In the Change Center, click the **Release Configuration** button.
Enabling Node Manager for Contract Management in a Clustered Environment

Edit the nodemanager.properties file on each node. This file is in the following location:

```
"%WL_HOME%\wlserver_10.3\common\nodemanager.cmd"
```

Set the following:

- Set StartScriptEnabled=true
- Set StartScriptName=startManagedWebLogic.cmd
This chapter describes how to view and modify Contract Management configuration settings in the Primavera Administrator.

Run this utility to change application server, database, or authentication configuration settings, or general preferences.

In this chapter:

- **Starting the Primavera Administrator**
- **Modifying Values of Configuration Settings**
- **Modifying Application Server Settings**
- **Modifying Authentication Settings**
- **Modifying Autovue Integration Settings**
- **Modifying Content Repository Settings**
- **Modifying Database Settings**
- **Modifying P6 EPPM Schedule Database Settings**
- **Setting Preferences**
- **Modifying Web Server Settings**
- **Configuration Settings for Contract Management**
Starting the Primavera Administrator

As the system administrator, you can use the Primavera Administrator application to view and modify Contract Management configurations.

Content Displayed in the Primavera Administrator

Contract Management system configurations, including settings for the database server, application server, authentication, the content repository, and preferences, are stored in the Contract Management database that you specified during installation.

Only experienced administrators should use the Primavera Administrator to modify configuration settings.

Access to the Primavera Administrator

You must run the Primavera Administrator locally. See “Run the Primavera Administrator” on page 63.
Components of the Primavera Administrator  The Primavera Administrator presents configuration settings in a tabbed dialog box.

Tree View presents the current configurations and settings in an expandable and collapsible hierarchy.

- Click to display a hierarchical view of the configuration data.
- Provides help for the current view.
- When marked, presents information in a tool tip when you linger your mouse pointer over a setting.
- To change a setting value, triple-click on the setting name, and type a new value. In Windows, you can also press F2 to change to Edit.
- To return a setting to its default value, right-click it and select Revert to default value.
Table View presents the current configurations and settings in a table, organized alphabetically in ascending or descending order.

To sort content of a column, click a column heading. Sorting can help you distinguish similar settings contained in multiple configurations.

To change a value, click the setting, and enter a new value.
The Log displays a history of configuration changes, additions, or deletions.

Run the Primavera Administrator

1. Navigate to the folder where you installed Contract Management. By default, this is:
   \Program Files\Oracle\ContractManagement

2. In the folder where you installed Contract Management, navigate to the \Utility\CMAdminConfig folder:
   \Program Files\Oracle\ContractManagement\Utility\CMAdminConfig

3. Double-click admincm.cmd to run Primavera Administrator.

Show Tool Tips To display brief setting descriptions in Tree or Table view in Primavera Administrator, do the following:

1. Mark the Show tool tips check box.
   A check mark is displayed in the check box.

2. Position the mouse over a setting.
   A popup is displayed that contains a description of the setting.
Modifying Values of Configuration Settings

Factory Default configuration settings are preset and cannot be changed. You can modify all custom configurations.

Reset a Configured Value to a Default

1. Expand the tree to the value you want to change.
2. Right-click the value.
3. Select Revert to default value.
   The configured value is reset to the default.

Change a Configured Value in Tree View

1. Expand the tree to the value you want to change.
2. Triple-click the value.
3. Enter a new value.
4. Click Save Changes.

Change a Configured Value in Table View

1. Click column headings to sort information in columns and scroll to the value you want to change.
2. In the Value column, click in the cell that contains the value to be changed.
3. Do one of the following:
   • Delete the current value from the cell, and enter a new value.
   • If a menu is displayed, select a new value.
4. Click Save Changes.
Modifying Application Server Settings

After Contract Management is installed, you can change application server settings.

For example, if during installation, you configured a multi-user Web-based installation of Contract Management with a WebLogic server that was later configured to use a different path, or you can change the path to the server.

Or, if the application server you configured during installation became unavailable during temporary maintenance, you can change the application server path to enable your clients to use a different server.

Change Application Server Settings in Tree View

1. Expand the tree to the Application Server folder by selecting Contract Management 13.0 Settings > Application Server.
2. Triple-click the app_server_name attribute and select one of the following options:
   - JBoss
   - WebLogic
3. Triple-click the Domain Home attribute, delete the current value, and enter the path of the JBoss or WebLogic server.
4. Click Save Changes.

Change Application Server Settings in Table View

1. In the Setting Name column, locate Application Server app_server_name.
2. In the Value column, double-click in the corresponding cell. The cell displays the type of application server you selected during the Contract Management installation.
3. Select one of the following options from the pull-down menu:
   - JBoss
   - WebLogic
4. In the Setting Name column, locate Application Server\DomainHome.
5 In the corresponding cell of the Value column, delete the current value, and change the path of the application server.

6 Click Save Changes.
Modifying Authentication Settings

Contract Management provides native, proprietary authentication that is installed by default. After the installation, you can configure Lightweight Directory Access Protocol (LDAP) authentication if you prefer.

In addition to these settings for enabling LDAP authentication, you can set values of mapped database fields per user.

For more information about each of these settings, refer to the Authentication Settings section in, “Configuration Settings for Contract Management” on page 83.”

Configure LDAP Authentication in Tree View

1. Select the mode of authentication:
   a) Expand the tree to the Authentication folder by selecting Contract Management 13.0 Settings > Authentication.
   b) Triple-click Mode: LDAP.
   c) From the pull-down menu, select LDAP.

2. Set LDAP attributes:
   a) Expand the tree to the Connection Information folder by selecting Contract Management 13.0 Settings > Authentication > LDAP > Connection Information.
   b) Triple-click, and enter a value for each of the following required fields:
      • LDAP Host Name
      • LDAP Port Number
      • LDAP User Name
      • LDAP Server Password
      • LDAP Base Domain Name (DN)
   The following fields are only required if you are using SSL:
      • SSL Certificate Store
      • SSL Store Password

3. Set LDAP user field mappings as appropriate for your site.
Viewing and Modifying Contract Management Settings

**Mapped DatabaseField: LOGIN_NAME** is a **required field** for which you must enter a value. All other fields are **optional**. Set them as appropriate for your site.

a) Expand the tree to **FieldMaps** by selecting **Contract Management 13.0 Settings >Authentication > LDAP > Connection Information > FieldMaps**.

b) Expand each **FieldMap** folder.

c) Triple-click each appropriate **LDAP Attribute** field, delete the current value, and enter the value of each field in the text box.

For information about each of the LDAP attribute fields in the FieldMap folders, see “Configuration Settings for Contract Management” on page 83.

4 Click **Save Changes**.

**Configure LDAP Authentication in Table View** In Table View, when the Setting Name column is sorted alphabetically in descending order, for example, from Z to A, the list of Mapped Database Fields are displayed under the LDAP Attribute fields, for which values are required.

When the Setting Name column is sorted in ascending order, for example from A to Z, the list of Mapped Database Fields are displayed above the LDAP Attribute fields.

To set values in Table view:

1 Locate the appropriate paths to the folders in the table that correspond with those described as for Tree View.

2 Enter values for all required fields.

3 Click **Save Changes** when finished.
Modifying Autovue Integration Settings

These settings are necessary to enable Contract Management users to view documents using Autovue. For information about each of these settings, refer to the Autovue Integration section in, “Configuration Settings for Contract Management” on page 83.”

Changing Autovue Integration Settings in Tree View

1. Expand the tree to the Autovue Integration Settings folder by selecting Contract Management Settings > Autovue Integration Settings
2. Triple-click, and enter values for each of the following:
   - URL
   - Enable
3. Click Save Changes.

Changing Autovue Integration Settings in Table View

You can use the Table View, if you prefer, to enter the Autovue Integration settings, instead of the Tree View.

1. In the Setting Name column, locate the two Autovue Integration Settings fields.
2. Click in the corresponding cell of the Value column for each one, and enter the correct value.
3. Click Save Changes.
Modifying Web Single Sign-On Settings

These settings are necessary to enable Contract Management users and P6 EPPM users to use a single sign-on to communicate with the Microsoft SharePoint content repository.

For more information about each of these settings, refer to the Web Single Sign-On section in, “Configuration Settings for Contract Management” on page 83.”

Changing Web Single Sign-On Settings in Tree View

1. Expand the tree to the Content Repository folder by selecting Contract Management 13.0 Settings > Authentication > Web Single Sign-On.
2. Triple-click and enter values for each of the following:
   - User Name Header Key
   - Context Path Override
   - Server and Port Override
3. Click Save Changes.

Changing Web Single Sign-On Settings in Table View

You can also enter the Web Single Sign-on settings in the Table View, rather than using the Tree View.

1. In the Setting Name column, locate the three Authentication/Web Single Sign-on fields.
2. Click in the corresponding cell of the Value column for each one, and enter the correct value.
3. Click Save Changes.
Modifying Content Repository Settings

You can modify settings of your pre-configured Oracle, Jackrabbit, or Microsoft SharePoint content repository. You can also change the type of content repository and all related attributes.

**Content Repository Authentication Modes** Contract Management offers two content repository authentication modes:

- Single user authentication
- Multiple user authentication.

In single user authentication mode, all Contract Management users access the repository using a single administrator user login that is set during repository configuration. In multiple user authentication mode, each Contract Management user is authenticated based on their individual login.

Single user authentication mode is the default mode. It is useful when you want users to have full access to the content repository through Contract Management without having to maintain an equivalent list of users for both Contract Management and the repository. This allows a repository administrator to maintain one set of credentials for the repository without having to share those credentials with all users. Single user authentication is also useful for quickly setting up test repositories that testers can access with minimal fuss.

Multiple user authentication mode provides increased security by restricting content repository access on an individual user basis. Because it uses native auditing fields, it also allows a clear audit of who has created and modified files.

When using multiple user authentication mode, Oracle Universal Content Management Guest Access should be disabled. If Guest Access is enabled, and the guest user is not part of the Contract Management security group, Contract Management repository functionality will not be available to that user.

For information about the other settings in this section, see “Configuration Settings for Contract Management” on page 83.
Changing Content Repository Settings in Tree View

1. Expand the tree to the Content Repository folder by selecting **Contract Management 13.0 Settings > Content Repository**.

2. Select the type of content repository:
   a) Triple-click **CRTType**.
   b) From the pull-down menu, select **Oracle**, **Jackrabbit**, or **SharePoint**.

3. Set the repository attributes for the type of repository you chose.

   **For Oracle:**
   Triple-click, delete the current value, and enter a value for each of the following options:
   - Oracle Host Name
   - Port
   - Oracle Home
   - Oracle Security Group
   - Oracle Security Account
   - Oracle Document Type
   - Metadata Prefix
   - Admin User
   - Authentication Mode

   **For Jackrabbit:**
   Triple-click, delete the current value, and enter a value for each of the following options:
   - URL
   - Database User Name
   - Database Password
   - Repository Home
   - Admin User Name
   - Admin Password

   **For Microsoft SharePoint:**
Triple-click, delete the current value, and enter a value for each of the following options:

- Login Name
- Password
- Authentication Mode
- Host Name
- Domain Name
- Domain Library URL
- Web Service URL
- External Document Library URL

4 Click Save Changes.

**Changing Content Repository Settings in Table View**

You can also enter the Content Repository settings in the Table View, rather than using the Tree View.

1 In the Setting Name column, locate the **Content Repository/CRType** field.

2 Click in the corresponding cell of the Value column, and select **Oracle**, **Jackrabbit**, or **SharePoint** from the pull-down menu.

3 Set the content repository settings.
   
   a) If you are using an Oracle content repository, in the **Setting Name** column find the path that starts with **Content Repository/Oracle/**, and then in the Value column enter the values for the settings.
   
   b) If you are using a Jackrabbit content repository, in the **Setting Name** column find the path that starts with **Content Repository/Apache Jackrabbit/**, and then in the Value column enter the values for the settings.
   
   c) If you are using a Microsoft SharePoint content repository, in the **Setting Name** column find the path that starts with **Content Repository/Microsoft SharePoint/**, and then in the Value column enter the values for the settings.

4 Click Save Changes.
Modifying Database Settings

In the Primavera Administrator, you can complete the following tasks:

- Change Contract Management Database Settings
- Change ADMIN Database Settings
- Change GROUP Database Settings
- Add a New GROUP Database
- Delete a GROUP Database

For information about the settings in this section, see “Configuration Settings for Contract Management” on page 83.

**Change Contract Management Database Settings** During installation, you set the type of database to use with the Contract Management application. Following installation, you can change the following database settings:

- Port number over which the database receives data from the Contract Management application
- Host name of the database, for example, if you move the database to another server
- Site name of the database. For more information, see **DatabaseSiteName** in the Database section of “Configuration Settings for Contract Management” on page 83.

**In Tree View:**

1. Expand the tree to the Database folder by selecting **Contract Management 13.0 Settings >Database**.
2. Triple-click and enter a value for each of the following options:
   - database_port
   - database_host_name
   - DatabaseSiteName
For information about the port number currently used, run the Registry Editor in Windows: select Start > Run, and in the Open field of the Run dialog box, enter regedit, and click OK.

For a Microsoft SQL database, expand HKEY_LOCAL_MACHINE > SOFTWARE > Microsoft > Microsoft SQL Server > Primavera > MSSQLServer > SuperSocketNetLib. Click the Tcp folder. The setting of the TcpPort registry key displays the port number used by the Contract Management database.

3 Click Save Changes.

In Table View:

To set values in Table view:

1 Locate the appropriate paths to the folders in the Table View that correspond with those described as for Tree View.

2 Enter values for all required fields.

3 Click Save Changes when finished.

4 Change ADMIN Database Settings

You can change ADMIN database settings in Tree View and Table view.

You can configure Contract Management to run with only one instance of the ADMIN database. Therefore, you cannot duplicate or create new instances of the ADMIN database.

However, you can configure Contract Management to run with multiple instances of the GROUP database. For information, see “Add a New GROUP Database” on page 77.

In Tree View:

1 Expand the tree to the ADMIN folder by selecting Contract Management 13.0 Settings > Database > Database Groups > ADMIN.

2 Triple-click and enter a value for each of the following options:
   • DBName
   • JNDIName
• Password
• Report Location
• UserName

The AdminName field value cannot be changed.

3 Click Save Changes.

In Table View:

1 Locate the appropriate paths to the folders in the Table View that correspond with those described as for Tree View.
2 Enter values for all required fields.
3 Click Save Changes when finished.

Change GROUP Database Settings

In Tree View:

1 Expand the tree to the ADMIN folder by selecting Contract Management 13.0 Settings > Database > Database Groups > GROUP:<database_name>.

If multiple instances of the GROUP database exist, the folder name includes the number of each instance. For example, in the folder name GROUP[1]:<database_name>, the [1] indicates that multiple instances of the database exist and that the first instance is selected.

2 Triple-click and enter a value for each of the following options:
   • DBName
   • JNDIName
   • Name
   • Password
   • ReportLocation
   • UserName
3 Click Save Changes.
In Table View:

If multiple instances of the GROUP database exist, the folder name includes the number of each instance. For example, in the folder name GROUP[1]:<database_name>, the [1] indicates that multiple instances of the database exist and that the first instance is selected.

To set values in Table view:

1. Locate the appropriate paths to the folders in the Table View that correspond with those described as for Tree View.
2. Enter values for all required fields.
3. Click Save Changes when finished.

Add a New GROUP Database To add a new GROUP database to a configuration, you can:

- Duplicate an existing database in the Tree View.
- Copy a database folder, paste it, and change settings of the new database.
- Right-click the Database Groups folder, and select Add Database Group.

For information about the settings in this section, see “Configuration Settings for Contract Management” on page 83.

To add a new GROUP database by copying or duplicating an existing one:

1. Expand the tree to the GROUP database you want to duplicate.
   For example, select Contract ManagementContract Management 13.0 Settings > Database > Database Groups > GROUP[1]:cmdemo.
2. Right-click the folder of the database you want to duplicate.
3. Do one of the following:
   - Select Duplicate.
   - Right-click and select Copy, and then right-click and select Paste.
4 Enter a unique name for the new instance and edit other settings as required.

For information about changing GROUP database settings in the Tree View or in the Table View, see “Change GROUP Database Settings” on page 76.

5 Click Save Changes.

To add a new database without copying or duplicating an existing one:

1 Expand the Database folder, right-click the Database Groups folder, and click Add Database Group to open the Configure Group Database dialog box.

2 On the Configure Group Database dialog box, enter the following information:
   - Name
   - Database Name
   - Username
   - Password

3 Click OK.

Delete a GROUP Database  You can delete a group database in the Tree View.

1 Expand the tree to the GROUP database you want to delete.
   
   For example, select Database > Database Groups > GROUP[1]:cmdemo.

2 Right-click the folder of the database instance to delete.

3 Select Delete.

4 Click Save Changes.
Modifying P6 EPPM Schedule Database Settings

During installation, you can connect Contract Management to a P6 EPPM Schedule Database running on either Microsoft or Oracle.

After installation, you can configure a P6 EPPM Schedule Database to run with Contract Management if you chose not to configure one while installing the software, or you can change settings that enable the connection to the P6 EPPM Schedule Database. For information about the settings in this section, see “Configuration Settings for Contract Management” on page 83.

You can configure Contract Management to run with only one instance of the P6 EPPM Schedule Database.

Change P6 EPPM Schedule Database Settings

In Tree View:

1. Expand the tree to the P6 EPPM folder by selecting Contract Management 13.0 Settings > Database > Project Management.

2. Select the database type.
   a) Triple-click Type.
      If no P6 EPPM Schedule Database was configured during installation, this field value is set to null.
   b) Select the database type: mssql or oracle.

3. Triple-click, and enter a value for each of the following options:
   - Name
   - Host Name
   - Port Number
   - SID (Oracle Only)
   - User Name
   - Password
   - URL – The format of the URL is:
     http://<IP address of P6 Web Access>/primavera/comp/showproject
80 Viewing and Modifying Contract Management Settings

In the URL, substitute the actual IP address of P6 Web Access for the <IP address of P6 Web Access> variable.

4  Right-click on the Encryption Key field.
   a) From the pop-up list, click Generate encryption key. This displays the Generate encryption key dialog.
   b) In the Generate encryption key field, enter the Pass phrase used to generate the encryption key. This has to be the same Pass phrase set up for P6 Web Access.
   c) Click the Key field underneath the Generate encryption key field, and the key will be displayed. Click OK.

5  Click Save Changes.

In Table View:

To set values in Table view:

1  Locate the appropriate paths to the folders in the Table View that correspond with those described as for Tree View.
2  Enter values for all required fields.

   Click Save Changes when finished.
Setting Preferences

After installation, you can modify preferences including your mail server, paths to templates used in Contract Management, and the location in which to store report images. For information about the settings in this section, see “Configuration Settings for Contract Management” on page 83.

**In Tree View:**

1. Expand the tree to the ADMIN folder by selecting **Contract Management 13.0 Settings > Preferences**.
2. Triple-click, and enter a value for each of the following options:
   - GridToExcel.
   - IncludeURLInMail — yes or no
   - InstallPath
   - PrintDebugLevel
   - Report Images Location
   - SMTPServer
   - Standalone
   - TemplatePath
3. Click **Save Changes**.

**In Table View:**

1. Locate the appropriate paths to the folders in the table that correspond with those described as for Tree View.
2. Enter values for all required fields.
3. Click **Save Changes** when finished.
Modifying Web Server Settings

Setting up your Web server is a prerequisite to installing your Contract Management software. After installation, you can change previously configured Web server settings if required. For information about the settings in this section, see “Configuration Settings for Contract Management” on page 83.

In Tree View:

1. Expand the tree to the ADMIN folder by selecting Contract Management 13.0 Settings > Web Server.
2. Triple-click, and enter a value for each of the following options:
   - CharacterEncoding
   - CompressionEnabled — true or false
   - ExpeditionWebServiceName
   - WebApplicationName — This is EXPONLINE.
   - WebProtocol
   - WebPort
   - WebServerName
   - sessiontimeout
   - xmlsessiontimeout
3. Click Save Changes.

In Table View:

1. Locate the appropriate paths to the folders in the table that correspond with those described as for Tree View.
2. Enter values for all required fields.
3. Click Save Changes when finished.
Configuration Settings for Contract Management

You can review and modify configuration settings in the Tree View or Table View. Configuration settings are stored in the Contract Management database.

You can specify durations (time-related values).

### Contract Management 13.0 Settings

<table>
<thead>
<tr>
<th>Setting Name and Description</th>
<th>Default</th>
<th>Valid Ranges/Values</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Application Server</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Application Server/app_server_name</td>
<td>JBoss</td>
<td>—</td>
</tr>
<tr>
<td>Application server configured with Contract Management: JBoss or WebLogic.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Application Server/DomainHome</td>
<td>C:\jboss-5.0.1.GA\server\cm</td>
<td>—</td>
</tr>
<tr>
<td>Location of the application server</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Authentication</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Authentication/Mode</td>
<td>NATIVE or LDAP</td>
<td>Native, LDAP</td>
</tr>
<tr>
<td>The method used for client authentication.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Authentication/LDAP/Connection Information/LDAPHost</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>LDAP server host name</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Authentication/LDAP/Connection Information/LDAPPort</td>
<td>389</td>
<td>—</td>
</tr>
<tr>
<td>Port number for authentication via the LDAP server.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Authentication/LDAP/Connection Information/LDAPUserName</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>User name for authentication via the LDAP server.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Authentication/LDAP/Connection Information/LDAPPassword</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Password for authentication via the LDAP server.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Authentication/LDAP/Connection Information/LDAPBaseDN</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Base domain name of the LDAP server.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Authentication/LDAP/Connection Information/SSL Certificate Store</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>The full path to the keystore that holds the SSL certificate for the LDAP server.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Viewing and Modifying Contract Management Settings

<table>
<thead>
<tr>
<th>Setting Name and Description</th>
<th>Default</th>
<th>Valid Ranges/Values</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Authentication &gt; LDAP &gt; Connection Information</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Authentication/LDAP/Connection Information/SSL Store Password</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>The password for the keystore that holds the SSL certificate.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Authentication &gt; LDAP &gt; Field Maps</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Authentication/LDAP/FieldMaps/FieldMap/MappedDatabaseField:EMAIL</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Email address of the user to be authenticated.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Authentication/LDAP/FieldMaps/FieldMap/MappedDatabaseField:EXTENSION</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Work telephone extension of the user to be authenticated.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Authentication/LDAP/FieldMaps/FieldMap/MappedDatabaseField:FAX</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Fax number of the user to be authenticated.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Authentication/LDAP/FieldMaps/FieldMap/MappedDatabaseField:FIRST_NAME</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>First name of the user to be authenticated.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Authentication/LDAP/FieldMaps/FieldMap/MappedDatabaseField:FULL_NAME</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Full name of the user to be authenticated.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Authentication/LDAP/FieldMaps/FieldMap/MappedDatabaseField:JOB_TITLE</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Job title of the user to be authenticated.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Authentication/LDAP/FieldMaps/FieldMap/MappedDatabaseField:LAST_NAME</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Last name of the user to be authenticated.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Authentication/LDAP/FieldMaps/FieldMap/MappedDatabaseField:LOGIN_NAME</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Login name of the user to be authenticated.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Authentication/LDAP/FieldMaps/FieldMap/MappedDatabaseField:MOBILE</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Mobile (cellular) telephone number of the user to be authenticated.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Authentication/LDAP/FieldMaps/FieldMap/MappedDatabaseField:TELEPHONE</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Personal telephone number of the user to be authenticated.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Setting Name and Description

<table>
<thead>
<tr>
<th>Setting Name and Description</th>
<th>Default</th>
<th>Valid Ranges/Values</th>
</tr>
</thead>
</table>

#### Authentication > LDAP

<table>
<thead>
<tr>
<th>Authentication &gt; LDAP/LastSearch</th>
<th>Default</th>
<th>Valid Ranges/Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>The last search done using the LDAP tool to locate Contract Management users to import.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Authentication > Web Single Sign-On

<table>
<thead>
<tr>
<th>Authentication &gt; Web Single Sign-On/User Name Header Key</th>
<th>Default</th>
<th>Valid Ranges/Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>The string in the HTTP header that identifies the user name.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Authentication &gt; Web Single Sign-On/Context Path Override</th>
<th>Default</th>
<th>Valid Ranges/Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>The base URL for Contract Management.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Authentication &gt; Web Single Sign-On/Server and Port Override</th>
<th>Default</th>
<th>Valid Ranges/Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>The server name and port to direct the URL to.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Autovue Integration Settings

<table>
<thead>
<tr>
<th>Autovue Integration Settings/URL</th>
<th>Default</th>
<th>Valid Ranges/Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>The URL of the host where the vuelink for the Content Repository is installed. For example:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For SharePoint: http://&lt;hostname&gt;/&lt;CM_Sharepoint_site&gt;/_layouts/1033/vue.aspx</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For Oracle Content Server: http://&lt;hostname&gt;/idc/jsp/autovue/csiApplet.jsp</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Note:</strong> Each URL should appear on one line. Format restrictions of this document prevent some of them from doing so.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Autovue Integration Settings/Enable</th>
<th>Default</th>
<th>Valid Ranges/Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use to enable or disable Autovue Integration</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Content Repository&gt; CRType</th>
<th>Default</th>
<th>Valid Ranges/Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of content repository used with Contract Management. Options include Oracle, Jackrabbit, or SharePoint.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Content Repository> CRType

<table>
<thead>
<tr>
<th>Content Repository &gt; CRType</th>
<th>Default</th>
<th>Valid Ranges/Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jackrabbit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oracle, Jackrabbit, or SharePoint</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Viewing and Modifying Contract Management Settings

<table>
<thead>
<tr>
<th>Setting Name and Description</th>
<th>Default</th>
<th>Valid Ranges/Values</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Content Repository&gt;Oracle Content Server</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content Repository/Oracle Content Server/Oracle Host name</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>The IP address or the machine name for the content repository host.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content Repository/Oracle Content Server/Port</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>The Port number where the content repository resides.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content Repository/Oracle Content Server/Oracle Home</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>The root level folder for the content repository. This must start and end with a \ character. For example: \Contribution Folders\OraclePrimavera\</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content Repository/Oracle Content Server/Oracle Security Group</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Set by the Oracle Administrator.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content Repository/Oracle Content Server/Oracle Security Account</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Set by the Oracle Administrator.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Content Repository&gt;Oracle Content Server</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content Repository/Oracle Content Server/Oracle Document Type</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Set by the Oracle Administrator.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content Repository/Oracle Content Server/Metadata Prefix</td>
<td>Cm</td>
<td>Cm</td>
</tr>
<tr>
<td>Content Repository/Oracle Content Server/Admin User</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>The administrator user name required for accessing the content repository for administrative and maintenance purposes. This User name must exist on the content repository server, and must have administrative privileges.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Setting Name and Description</td>
<td>Default</td>
<td>Valid Ranges/Values</td>
</tr>
<tr>
<td>------------------------------</td>
<td>---------</td>
<td>---------------------</td>
</tr>
<tr>
<td><strong>Content Repository&gt;Oracle Content Server</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content Repository/Oracle Content Server/Authentication Mode</td>
<td>Single User</td>
<td>Multiple User</td>
</tr>
<tr>
<td>The authentication mode used for access to the Oracle Universal Content Management server. If these conditions are not met content repository functions will not be available to Contract Management users.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Use Single User to always log into Oracle with the Admin User name. In this mode, no matter which user logs onto Contract Management, the Modified By and Created By columns for versions and attachments in the Oracle Content Server will be the same username specified in the Primavera Administrator Tool Settings.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Use Multiple Users to logon to Oracle with the credentials of the user logged into Contract Management. In this mode, the Modified By and Created By columns for versions and attachments in the Oracle Content Server will be the same username used to logon to Contract Management. Therefore, Contract Management should be configured to use the same active directory or LDAP server as the Oracle Content Server. If you choose Multiple User, all Contract Management content repository-related usernames must match the equivalent Oracle UCM username. For example, a Contract Management user named “Joe” must have an equivalent user named “Joe” in the Oracle UCM.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Content Repository&gt;Jackrabbit</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content Repository/Apache Jackrabbit/URL</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Path or URL location of the content repository.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Content Repository&gt;Jackrabbit</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content Repository/Apache Jackrabbit/Database User Name</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Username for the database used with the content repository.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content Repository/Apache Jackrabbit/Database Password</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Password for accessing the database used with the content repository.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Setting Name and Description

<table>
<thead>
<tr>
<th>Setting name and description</th>
<th>Default</th>
<th>Valid Ranges/Values</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Content Repository&gt;Jackrabbit</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content Repository/Apache Jackrabbit/Repository Home</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>The path to the install directory of the content repository.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content Repository/Apache Jackrabbit/Admin User Name</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>User name of the administrator who maintains the database.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content Repository/Apache Jackrabbit/Admin Password</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Password of the administrator who maintains the database.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Content Repository&gt;Microsoft SharePoint</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content Repository/Microsoft SharePoint/LoginName</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>The name required for logging onto the content repository.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content Repository/Microsoft SharePoint/Password</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>The password required for logging onto the content repository.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Setting Name and Description

<table>
<thead>
<tr>
<th>Setting Name and Description</th>
<th>Default</th>
<th>Valid Ranges/Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content Repository&gt;Microsoft SharePoint</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content Repository/Microsoft SharePoint/Authentication Mode</td>
<td>Single User</td>
<td>Single User</td>
</tr>
<tr>
<td>The authentication mode used for access to the Microsoft SharePoint server. If these conditions are not met content repository functions will not be available to Contract Management users.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Use Single User to always log into SharePoint with the Admin User name. In this mode, no matter which user logs onto Contract Management, the Author column for versions and attachments in SharePoint will be the same credentials specified in the Primavera Administrator Tool Settings.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Use Multiple Users to logon to SharePoint with the username of the user logged into Contract Management. In this mode, the Modified By and Created By columns for versions and attachments in Microsoft SharePoint will be the same username used to logon to Contract Management. Therefore, Contract Management should be configured to use the same active directory or LDAP server as the SharePoint Server. If you choose Multiple User, all Contract Management content repository-related usernames must match the equivalent SharePoint username. For example, a Contract Management user named “Joe” must have an equivalent user named “Joe” Microsoft SharePoint.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content Repository/Microsoft SharePoint/HostName</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>The name of the host on which the content repository resides.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content Repository/Microsoft SharePoint/Domain</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>SharePoint authentication domain name.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content Repository/Microsoft SharePoint/Document Library URL</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>The URL of the Microsoft SharePoint document library used by Contract Management. This document library is internal to Contract Management.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content Repository/Microsoft SharePoint/Web Service URL</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>The URL of the Oracle Primavera SharePoint connector. This enables Contract Management and P6 EPPM to use a single sign-on to communicate with the Microsoft SharePoint repository.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Viewing and Modifying Contract Management Settings

### Setting Name and Description

<table>
<thead>
<tr>
<th>Setting Name and Description</th>
<th>Default</th>
<th>Valid Ranges/Values</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Content Repository&gt;Microsoft SharePoint</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content Repository/Microsoft SharePoint/External Document Library URL</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>The path to the document library that is external to Contract Management. Users can browse this library for documents to attach to Contract Management documents.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Configuration Management</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Configuration Management/Configuration Capture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Used to turn automatic configuration capture for Oracle on or off</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Configuration Management/Configuration Capture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Used to set the time to start the automatic configuration capture for Oracle.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Database</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database/Database Type</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Database/database_port</td>
<td>MSSQL: 1433</td>
<td>—</td>
</tr>
<tr>
<td>Port number used by the MSSQL or Oracle database configured for use with Contract Management.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database/database_host_name</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Name of the computer on which the Contract Management database resides. This can be the host name or the IP address.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Database &gt; Groups &gt; ADMIN</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database/Database Groups/ADMIN/DBName</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Name of the ADMIN database as it is displayed within the related database management application, for example, if your ADMIN database is a Microsoft SQL database, the DBName is the name of the database as it displays in Microsoft SQL Server Management Studio Express.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Viewing and Modifying Contract Management Settings

#### Contract Management 13.0 Installation and Configuration Guide for MS SQL

<table>
<thead>
<tr>
<th>Setting Name and Description</th>
<th>Default</th>
<th>Valid Ranges/Values</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Database &gt; Groups</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Database &gt; Groups &gt; ADMIN</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database/Database Groups/ADMIN/JNDIName</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Java Naming Directory Interface (JNDI) name of the ADMIN database that enables clients to identify and locate it.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database/Database Groups/ADMIN/Name</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Administrator user name for accessing the ADMIN database.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database/Database Groups/ADMIN/Password</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Password for accessing the ADMIN database.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database/Database Groups/ADMIN/ReportLocation</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>The location for Contract Management reports.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database/Database Groups/ADMIN/UserName</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>The username used by Contract Management to access the Contract Management ADMIN database.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Database &gt; Groups &gt; GROUP</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Note:</strong> If more than one GROUP database instance is configured, the database instance name displays as GROUP[#]: &lt;database_name&gt; in the Primavera Administrator.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database/Database Groups/GROUP/DBName</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Name of the GROUP database as it displays within the related database management application. For example, if your GROUP database is a Microsoft SQL database, the DBName is the name of the database as it displays in Microsoft SQL Server Management Studio Express.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database/Database Groups/GROUP/JNDIName</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Java Naming Directory Interface (JNDI) name of the database that enables clients to identify and locate it.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database/Database Groups/GROUP/Name</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Administrator user name for accessing the GROUP database.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database/Database Groups/GROUP/Password</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Password for accessing the GROUP database.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database/Database Groups/GROUP/ReportLocation</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>The location for Contract Management reports.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Contract Management 13.0 Installation and Configuration Guide for MS SQL**
## Viewing and Modifying Contract Management Settings

### Setting Name and Description

<table>
<thead>
<tr>
<th>Setting Name and Description</th>
<th>Default</th>
<th>Valid Ranges/Values</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Database &gt; Groups</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Database &gt; Groups &gt; GROUP</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database/Database Groups/GROUP/UserName</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>The username used by Contract Management to access the Contract Management GROUP databases.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Database &gt; Project Management</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database/Project Management/Type</td>
<td>null — Indicates that no P6 EPPM Schedule Database was configured</td>
<td>mssql — Indicates that a Microsoft SQL P6 EPPM Schedule Database was configured with Contract Management</td>
</tr>
<tr>
<td>Type of P6 EPPM Schedule Database configured to exchange data with Contract Management, if one was configured during installation.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database/Project Management/Name</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Name of P6 EPPM Schedule Database configured to exchange data with Contract Management, as the name displays in the database management application.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database/Project Management/Host Name</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Name of the host on which the P6 EPPM Schedule Database resides.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database/Project Management/Port Number</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>The port number of the P6 EPPM Database.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Database/Project Management/SID (used only for Oracle)</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Unique identifier of an Oracle P6 EPPM Schedule Database.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Setting Name and Description

<table>
<thead>
<tr>
<th>Database &gt; Project Management</th>
<th>Default</th>
<th>Valid Ranges/Values</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Database/Project Management/User Name</strong></td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>User Name required to access the P6 EPPM Schedule Database.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Database/Project Management/Password</strong></td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Password required to access the P6 EPPM Schedule Database.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Database/Project Management/URL</strong></td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>URL of the remotely-based, Web-accessible P6 EPPM Schedule Database.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Database/Project Management/Encryption Key</strong></td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Used to enable seamless integration between <strong>Contract Management</strong> and the P6 EPPM Database. Set by right-clicking the field name. See step 4 in “Change P6 EPPM Schedule Database Settings” on page 79.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Preferences

<p>| Preferences/GridToExcel | — | — |
| Path to the gridtoexcel.xsl file that stores data derived from <strong>Contract Management</strong>. For more information, see the <strong>Web &amp; Application Server Configuration for Contract Management 13.0</strong> document. |
| <strong>Preferences/IncludeURLInMail</strong> | yes | yes |
| Determines whether to include the URL in mail messages. |
| <strong>Preferences/InstallPath</strong> | — | — |
| The <strong>Contract Management</strong> install directory path. |
| <strong>Preferences/PrintDebugLevel</strong> | — | — |
| — | — |
| <strong>Preferences/ReportImagesLocation</strong> | — | — |
| Path to the location in which images used in reports are stored. |
| <strong>Preferences/SMTPServer</strong> | — | — |
| Name of the SMTP mail server for outgoing mail. |</p>
<table>
<thead>
<tr>
<th>Setting Name and Description</th>
<th>Default</th>
<th>Valid Ranges/Values</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Preferences</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Preferences/Standalone</td>
<td>—</td>
<td>yes — Indicates a standalone installation of Contract Management no — Indicates a Web-based installation of Contract Management</td>
</tr>
<tr>
<td>Preferences/TemplatePath</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Web Server</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Web Server/Character Encoding</td>
<td>UTF-8</td>
<td>See “Modifying Web Server Settings” on page 82.</td>
</tr>
<tr>
<td>Web Server/CompressionEnabled</td>
<td>true</td>
<td>See “Modifying Web Server Settings” on page 82. false — Indicates that file compression is not enabled on the host where the Web server resides.</td>
</tr>
<tr>
<td>Web Server/ExpeditionWebServiceName</td>
<td>—</td>
<td>See “Modifying Web Server Settings” on page 82.</td>
</tr>
<tr>
<td>Web Server/WebApplicationName</td>
<td>—</td>
<td>See “Modifying Web Server Settings” on page 82.</td>
</tr>
<tr>
<td>Web Server/WebApplicationName</td>
<td>—</td>
<td>See “Modifying Web Server Settings” on page 82.</td>
</tr>
<tr>
<td>Setting Name and Description</td>
<td>Default</td>
<td>Valid Ranges/Values</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>---------</td>
<td>------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Web Server</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Web Server/WebProtocol</td>
<td>—</td>
<td>See “Modifying Web Server Settings” on page 82.</td>
</tr>
<tr>
<td>Protocol of the Web server.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Web Server/WebPort</td>
<td>80</td>
<td>See “Modifying Web Server Settings” on page 82.</td>
</tr>
<tr>
<td>Port configured for use by the Web server.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Web Server/WebServerName</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>The Web server host name</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Web Server/sessiontimeout</td>
<td>—</td>
<td>See “Modifying Web Server Settings” on page 82.</td>
</tr>
<tr>
<td>Web Server/xmlsessiontimeout</td>
<td>—</td>
<td>See “Modifying Web Server Settings” on page 82.</td>
</tr>
</tbody>
</table>
Use this chapter if you chose InfoMaker 10.5 after choosing Install Other Applications in the Welcome to Primavera Contract Management dialog box. This chapter describes how to install the Sybase InfoMaker software for use with Contract Management reports and forms.

After InfoMaker 10.5 is installed, the InstallShield Wizard launches the Database Wizard to configure the connection to the Contract Management database.
Installing InfoMaker

Do the following steps if you chose InfoMaker 10.5 after choosing Install Other Applications in the Welcome to Primavera Contract Management dialog box.

1. In the Welcome to the InstallShield Wizard for Contract Management dialog box, click Next.

2. A message box displays telling you that the InfoMaker 10.5 installer will be launched. Click OK.

3. The Preparing Setup dialog box displays. If a message displays that says, “The InfoMaker installation requires the following Adaptive Server Anywhere component(s): Personal Server,” click OK to continue.

4. In the Choose Destination Location dialog box, click Next to choose the default.

5. In the Choose Destination Location for Shared files dialog box, click Next to choose the default.

6. In the Setup Type dialog box, click Typical, and click Next.

7. In the Select Program folder dialog box, click Next to choose the default.

8. In the Start Copying Files dialog box, review the settings. Click Next.

9. When the InstallShield Wizard Complete dialog box displays, click Finish. The Primavera Setup program displays. See “Setting up the Database Connection to InfoMaker” on page 99.
Setting up the Database Connection to InfoMaker

After the InfoMaker software is installed, the InstallShield Wizard launches the Primavera Setup program.

1. In the Choose Reports Location dialog box, click **Next** to choose the default location.

2. In the Database type dialog box, select **Microsoft SQL Server**, and click **Next**.

3. In the Enter the computer name and Database Group name dialog box, enter the following information and click **Next**:
   - **Computer** – Name of the computer you are using for the installation.
   - **Instance** – Identifier of the location where the database resides. For example, Primavera.
   - **Group** – Name of the database where projects reside. The default is cmdemo.

4. In the next dialog box, enter the User ID and Password used to access the MS SQL Server database, for example, **exp** for the User ID and **sql** for the Password.

5. In the Review settings before configuring for InfoMaker, review the settings, and then click **Next**.

6. When the InfoMaker database configuration completes, click **Finish** in the InstallShield Wizard Complete dialog box.
Installing and Configuring the Oracle Primavera SharePoint Connector

**In this chapter**

- Installing the Oracle Primavera SharePoint Connector
- Configure the Oracle Primavera SharePoint Connector URL in Primavera Administrator

Use this chapter to install and configure the Oracle Primavera SharePoint Connector to enable Microsoft SharePoint to integrate with Contract Management. This enables both Contract Management and P6 EPPM to use a single signon to communicate with the Microsoft SharePoint Repository.
Prerequisites

You must first install Contract Management, making certain that you first complete all prerequisite tasks.

See "Preparing for Installation" on page 15.
Installing the Oracle Primavera SharePoint Connector

Create the Web site  In Internet Information Services (IIS) manager, do the following:

1  Create a new Web site.
2  Right-click on the name of the Web site you created, and do the following:
   a) Go to Properties, and click the Security tab.
   b) Click the Edit button in the Authentication section.
   c) Unmark the Integrated Windows Authentication checkbox, and click OK.

Install the software  The SharePoint Connector must be installed on the same machine on which SharePoint is located.

1  From the download or physical media, go to the Oracle Primavera SharePoint Connector folder, and run setup.exe.
2  When the Select Installation Address dialog displays:
   a) The name of the Site that you enter must be the same as the name of the Web site you created earlier in this section.
   b) For the Virtual directory and Application Pool, either accept the default values or use the fields on the dialog to change them.
3  Click Next.
4  Finish installing the Oracle Primavera SharePoint Connector.

Test the Web Services function to ensure it installed correctly

To test the Web Services function, open the URL for the Web Services. The URL should be in the following format:

http://<HOST>:<PORT>/<VIRTUAL_DIR>/WS_FPRPC.asmx

This should display a list of the available functions. In the preceding URL:

- <HOST> is the name of the host on which Web Service runs.
- <PORT> is the TCP port that the Web site will use. You entered this when you created the Web site.
■ <VIRTUAL_DIR> is the name of the Virtual directory that you created.
■ WS_FPRPC.asmx is the name of the Web Service.
Configure the Oracle Primavera SharePoint Connector URL in Primavera Administrator

1. Run Primavera Administrator.
2. Expand the Content Repository folder, and then expand the Microsoft SharePoint folder.
3. Triple-click Authentication Mode, and choose Multiple User.
4. Triple-click Document Library URL, and enter the URL for the SharePoint document repository.
5. Triple-click Web Service URL, and enter the URL for the Oracle Primavera SharePoint Connector that you previously installed.
6. Click Save Changes.

See "Run the Primavera Administrator" on page 63.
Setting Up the Contract Management Environment

In this chapter

- Starting the Administration Application
- Adding Contract Management Users
- Setting Up Reports and Forms
- Displaying Report Titles Containing International Characters
- Running Contract Management as a User Account
- Importing Users from LDAP
- Reconfiguring the Contract Management Web Server
- Encrypting Passwords when Using a JBoss Application Server

This chapter describes how to start setting up the Contract Management application environment.
Starting the Administration Application

1. From the Windows desktop open Internet Explorer.

2. Enter the Web address for the Contract Management Administration Application as follows:

   http://webservername/exponline/adminlogon.jsp

   where: webservername is the computer name of your Contract Management Web server.

   When running Contract Management for the first time, you must have administrator rights to the machine in order to install the JRE.

3. Type your admin user ID and password in the Administration login dialog box, and click Log In.
Adding Contract Management Users

Users need a Contract Management user account in order to access the database. You should review your existing Contract Management user accounts to ensure they are properly configured, and add new users as necessary.

1 Logon to the Contract Management Administration Application
2 Click User Accounts.
3 In the User Accounts window, click Create New User to open the Create New User dialog box.
4 Type an ID for the user, and choose whether to create a completely new user, or to base the user on an existing one (which requires less data entry).
5 Click OK to open the User Account window.
6 Fill in the information for the User Account. See the online help for information about each field.

When importing users from LDAP, the LDAP user login name cannot contain any special characters (for example, ! @ $ % & * () ^ # +) or be longer than 30 characters. Contract Management will only support login names that do not contain special characters, and that are less than or equal to 30 characters in length. See “Importing Users from LDAP” on page 115.
Setting Up Reports and Forms

When you install Contract Management, setup stores Contract Management reports and forms by default in folders called Reports and Forms on the Web Server in C:\Program Files\Oracle\ContractManagement.

To use reports and forms, the drive on which they are stored must be available from the Contract Management Web Server. The following instructions explain how to configure the Contract Management Web Server to use reports and forms.

1. Logon to the Contract Management Administration Application
2. Click Server Configuration to open the Server Configuration window.
3. In the Report and Form Locations section, click Add to open the Report and Form Location dialog box.
4. In the Location field, enter a name for the location (such as Bala Cynwyd).
5. Click Browse next to the Report Path or Form Path field to select a report or form location, or enter the report and form paths in their respective fields.

- If the reports and forms are located on the same machine as the Contract Management Web Server, the path must be a physical path, such as C:\Program Files\Oracle\ContractManagement\reports. You can click My Computer from the Browse dialog box to select the path.
- If the attachment files are located on a network drive, the path must be a UNC path, such as \mycomputer\reports. You can click My Network Places from the Browse dialog box to select the path.

If the reports and forms are on a network drive, you must run the Contract Management Web service as a user account. Refer to “Running Contract Management as a User Account” on page 113.

See “Starting the Administration Application” on page 108.
6 Click **Import Reports and Forms** to import the reports and forms. This could take several minutes to complete.

7 Under Projects, click **Add** to open the Select Projects dialog box to assign the report and form locations to particular projects, or click **Add All Projects** to assign the report and form locations to all projects.

8 Click **Save & Close** when finished.

---

*If your report and form titles contain international characters, you will need to update the Web Server properties to display the titles properly in the Advanced Print dialog box. See “Running Contract Management as a User Account” on page 113.*
Displaying Report Titles Containing International Characters

To display international report/form titles in the Advanced Print dialog box, perform the following steps:

1. Stop the Contract Management service.
2. Add one of the following lines to the exonline.properties file:
   - If the workstation used to create the InfoMaker reports is running Simplified Chinese, add:
     
     ReportEncoding=GB2312
   
   - If the workstation used to create the InfoMaker reports is running Traditional Chinese, add:
     
     ReportEncoding=BIG5
   
   - If the workstation used to create the InfoMaker report is running Russian, add:
     
     ReportEncoding=WINDOWS-1251
4. Import Reports and Forms.
Running Contract Management as a User Account

If your reports, forms, attachments, and/or Brava! markups directories are on a network drive (a drive that is accessible from but not on the same machine as the one on which Contract Management is installed), you must run the Contract Management service as a domain user account instead of as a local system account. You must always use UNC type paths (using the form of \computer\reports) for the location of the reports, forms, attachments, and/or the Brava! markups directory when configuring Contract Management.

Set Up Contract Management as a User Account Using the Services Dialog Box  From the machine running the Contract Management Web Server, do the following:

1. Click Start, and navigate to Settings > Control Panel.
2. From the Control Panel, navigate to Administrative Tools > Services > Contract Management.
3. In the Contract Management Properties dialog box, click the Log On tab.
4. Click the This account.
5. Enter the user’s login, password, and then enter the password again to confirm it.
6. Click OK.

Start and Configure the Contract Management Administration Application

Run the Contract Management Administration Application on the same machine that the Web Server is installed on to ensure that you have the correct network drive mappings.

1. From the Windows desktop, open Internet Explorer and enter the Web address for the Contract Management Administration Application.
2. Type your administrator user ID and password in the Administration Login dialog box; the default ID and password are both EXPADMIN. Click Log In.
You must enter the UNC path for the location, not the mapped network drive path.
Importing Users from LDAP

The LDAP server provides the central repository for user credentials. This is useful when users exchange data with multiple applications. LDAP provides one common user authentication source.

When importing users from LDAP, it is important to do the following:

- Set up a Contract Management administrative user with the same login name that exists on the LDAP server.
- Configure the Contract Management user import tool, and import users.
- In the Contract Management Administration Application, complete the LDAP information for each user.

If you do not complete the steps in the following section before importing users from LDAP, you will not be able to logon to Contract Management again.

First, set up a Contract Management user for LDAP

1. Logon to the Contract Management Administration Application.
2. Click Administrator IDs.
3. Click Add Administrator.
4. Enter the Administrator ID. This is the same user login name that exists on the LDAP server.
5. Enter the Password, and choose the Language from the drop-down list.
6. Click Save.
7. Close the Contract Management Administration Application.
Configure the Contract Management user import tool

1. Go to the home directory where Contract Management is installed, chose ContractManagement, choose Utility, choose CMAadmin-Config, and double-click LDAPcfgWiz.cmd to run the LDAP configuration wizard.

2. Enter the Contract Management User name and Password, and click OK. This is the User name and Password for the Contract Management ADMIN database, and was set during Contract Management installation.

3. In the LDAP Configuration dialog, enter the information that LDAP needs to access the LDAP server:
   a) Enter the User name.
   b) Enter the Password.
   c) Enter the Host address for the LDAP server.
   d) Enter the Host port number of the LDAP server.
   e) Enter the Base directory node. The Base directory node is the base directory where the LDAP user import tool starts looking for users.
   f) Click Next when finished.

4. In the Map database fields with LDAP attributes dialog:
   a) In the LDAP attribute column of the table, enter the LDAP attributes that correspond to the Contract Management database field names listed in the Database field name column of the table.
   b) You must enter an LDAP attribute for the LOGIN_NAME* field name. This is a required field.
   c) The LDAP attributes you enter are the attributes that exist on the LDAP server. You do not have to enter an LDAP attribute for all fields, only for required fields.
   d) Click Next when finished.

5. In the Select LDAP users to be imported into Contract Management dialog:
   a) Use the Search field to find the users you want to add to the Selected users table. You can search on an LDAP attribute, and can use an asterisk (*) as a search option (for example: uid=*).
b) Highlight the user you want to add, and click the right arrow button to add the user to the Selected Users table.

c) If you want to change the default group of projects available to the user, scroll to the right in the Selected Users table, find the Default Group column, and change the default.

c) Repeat steps 5a through 5c as necessary until you have added all users to the table, and then click Import when finished.

6 When the “Import Successful” message displays, click OK.

7 Click Close. When the “Configuration of the Contract Management LDAP completed successfully.” message displays, click OK.

**Finish Configuring the LDAP users in Contract Management** After the import completes, do the following:

1 Restart the Contract Management service.

2 Logon to the Contract Management Administration Application with the User ID you created in step 4 of “First, set up a Contract Management user for LDAP” on page 115.

3 Click User Accounts, and select a user that you imported from LDAP.

4 Make sure that the First Name And Last Name fields contain the name of the user imported from LDAP.

5 In the Company field, enter the abbreviation of the user’s company.

6 In the Initials field, enter the initials of the user imported from LDAP.

7 Scroll to the Template section, and click Add Template.

8 In the Select Template dialog, click select next the appropriate template to apply for the user, and click Save.

9 Click either Add Project, and select the project to which the user will have access, or click Add All Projects to give the user access to all projects.

10 Click Save.

11 Repeat steps 3 through 10 for each user that you imported.
Reconfiguring the Contract Management Web Server

If you need to reconfigure the Contract Management Web Server after it has been installed, click Start, and then navigate to Programs > Oracle - Primavera Contract Management > Primavera Contract Management Utilities > Server Config. Use this utility if you need to change any of the following items:

- SMTP Server
- Contract Management Web Server port number
- Contract Management database type
- Database server connection
- P6 EPPM connections
- Minimum and maximum memory allocation for the Contract Management Web Server

Or, see the information in “Viewing and Modifying Contract Management Settings” on page 67.
Encrypting Passwords when Using a JBoss Application Server

If you are using a JBoss application server, and want to encrypt passwords in the expedition-ds.xml file, the following web site contains information to help you do so.

http://www.jboss.org/community/wiki/EncryptingDataSourcePasswords

The preceding URL should be all on one line. The formatting restrictions of this document prevent it from appearing on one line.
Configuring the Oracle Content Repository for Use with Contract Management

In this chapter

Adding Users
Adding Metadata Properties

This chapter describes how to configure the Oracle content repository for use with Contract Management.
Adding Users

If you are authenticating Contract Management users in native mode, and are using the Oracle content repository, you must manually add users to the Oracle content repository server. If you are using LDAP authentication, this step is not necessary.

The Contract Management user login name must be the same as that used for the Oracle content repository server.

When logging into Contract Management, the user must use the same login name and case (upper or lower case) that exists on the Oracle content repository server.

For information about adding users to the Oracle content repository server, see your Oracle documentation.
Adding Metadata Properties

After adding the users, do the following:

1. In the Oracle content repository server, go to the Configuration Manager utility.

2. Add the following Information Fields, and designate the Type as Text:
   - CmGroupName
   - CmProjectName
   - CmModuleName
   - CmObjectType
   - CmObjectId
   - CmisAttachment

3. After you add the preceding Information Fields, click the Update Database Design button.

Ensure that you have completed the procedures in “Viewing and Modifying Contract Management Settings” on page 59. In that chapter, the procedures in “Modifying Content Repository Settings” on page 71, must be done in order for Oracle content repository to work properly.
Index

A
Application Server host components 6

C
Creating databases
   initial steps 18
Custom portlets
   password encryption 83

D
Databases
   creating, initial steps for 18
Documentation 9

H
Help, online 9
HTTPS 10

I
InfoMaker
   installation overview 51, 97, 101
   installation, beginning 98, 103
   installing by using the Primavera Setup program 99
   online documentation 9
Installing Contract Management prerequisites for 16

M
Microsoft SQL Express Server installation
   initial steps for 39

O
Online, help 9

Operating systems supported 7
Overview of Contract Management 6

P
P6 Web Access
   adding database instances 64
   configuration settings 83
   configure custom portlets 83
Passwords encrypting for custom portlets 83
Prerequisites for installing Contract Management 16
Primavera starting 98, 103, 105

R
Reports and forms sharing 110

S
Stand-Alone installation for Microsoft SQL 2005 Express Server overview of 37

U
Upgrade important information 7
Upgrade 10.0 version databases beginning the upgrade 21
Upgrade from Contract Management 11.0 for Microsoft SQL Server Web server initial setup steps 47
   overview of 45
Upgrade from Contract Manager 11.0 for Oracle Web server
  connecting to the P6 EPPM database running Microsoft SQL Server 41
Upgrade from Expedition 10.0 to Contract Management installation
  for Oracle Web server
  not connecting to the P6 EPPM schedule database 43
  not connecting to the P6 EPPM schedule database running Oracle 41
User’s Guide 9

W
Web Server components 6
WebLogic
  Configure data source for Microsoft SQL Server 29
  data source setup 31
  prerequisites for 30