Oracle Utilities Market Settlements Management

Quick Install Guide

Release 2.2.0 Service Pack 3

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ORACLE

Oracle Utilities Market Settlements Management Quick Install Guide

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Preface

This guide provides an overview of installing Oracle Utilities Market Settlements Management and is intended for anyone interested in the installation process. This section includes:

- Related Documents
- Updates to Documentation
- Conventions
- Acronyms
- Additional Resources

To complete installation you should have:

- Administrative privileges on the host where you are installing the software.
- Experience installing and configuring application servers and other software.

Related Documents

The following documentation is included with this release.

Installation, Configuration, and Release Notes

- *Oracle Utilities Market Settlements Management Release Notes*
- *Oracle Utilities Market Settlements Management Quick Install Guide*
- *Oracle Utilities Market Settlements Management Installation Guide*
- *Oracle Utilities Market Settlements Management Database Administrator's Guide*
- *Oracle Utilities Market Settlements Management Licensing Information User Manual*

User Guides

- *Oracle Utilities Market Settlements Management Business User Guide*
- *Oracle Utilities Market Settlements Management Administrative User Guide*

Supplemental Documents

- *Oracle Utilities Market Settlements Management Security Guide*
- *Oracle Utilities Market Settlements Management Server Administration Guide*

Updates to Documentation

Additional and updated information about the product is available from the **Knowledge Base** section of **My Oracle Support** (http://support.oracle.com). Please refer to **My Oracle Support** for more information. Documentation updates are also posted on the Oracle Technology Network documentation page as they become available (http://docs.oracle.com/cd/E72219_01/documentation.html).

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Acronyms

The following acronyms and terms are used in this document:

Acronym	Definition
ADF	Oracle Application Development Framework
EAR	Enterprise Archive
EJB	Enterprise JavaBeans
HTML	HyperText Markup Language
JAR	Java Archive
JDBC	Java database connectivity
JMX	Java Management Extensions
JNDI	Java Naming and Directory Interface
JSP	JavaServer Pages
JVM	Java Virtual Machine.

Acronym	Definition
MPL	Multi Purpose Listener
OUAF	Oracle Utilities Application Framework
OAM	Oracle Access Manager
OIM	Oracle Identity Management
ONS	Oracle Notification Service
Oracle RAC FCF	Oracle Real Application Clusters Fast Connection Failover
RMI	Remote Method Invocation
SOAP	Simple Object Access Protocol
SOA	Service-oriented architecture
SPLEBASE	The location where the application will be installed.
SPLOUTPUT	This location is used for storing batch log files and output from batch jobs
WAR	Web application Archive
WLS	WebLogic
XAIApp	XML Application Integration

Additional Resources

For more information and support, visit the Oracle Support Web site at:
http://www.oracle.com/support/index.html

Chapter 1

Introduction

This chapter provides an overview of the Oracle Utilities Market Settlements Management product and installation process. It contains the following sections:

- Installation Overview
- Installation Components
- Installation Types
- Media Pack Components

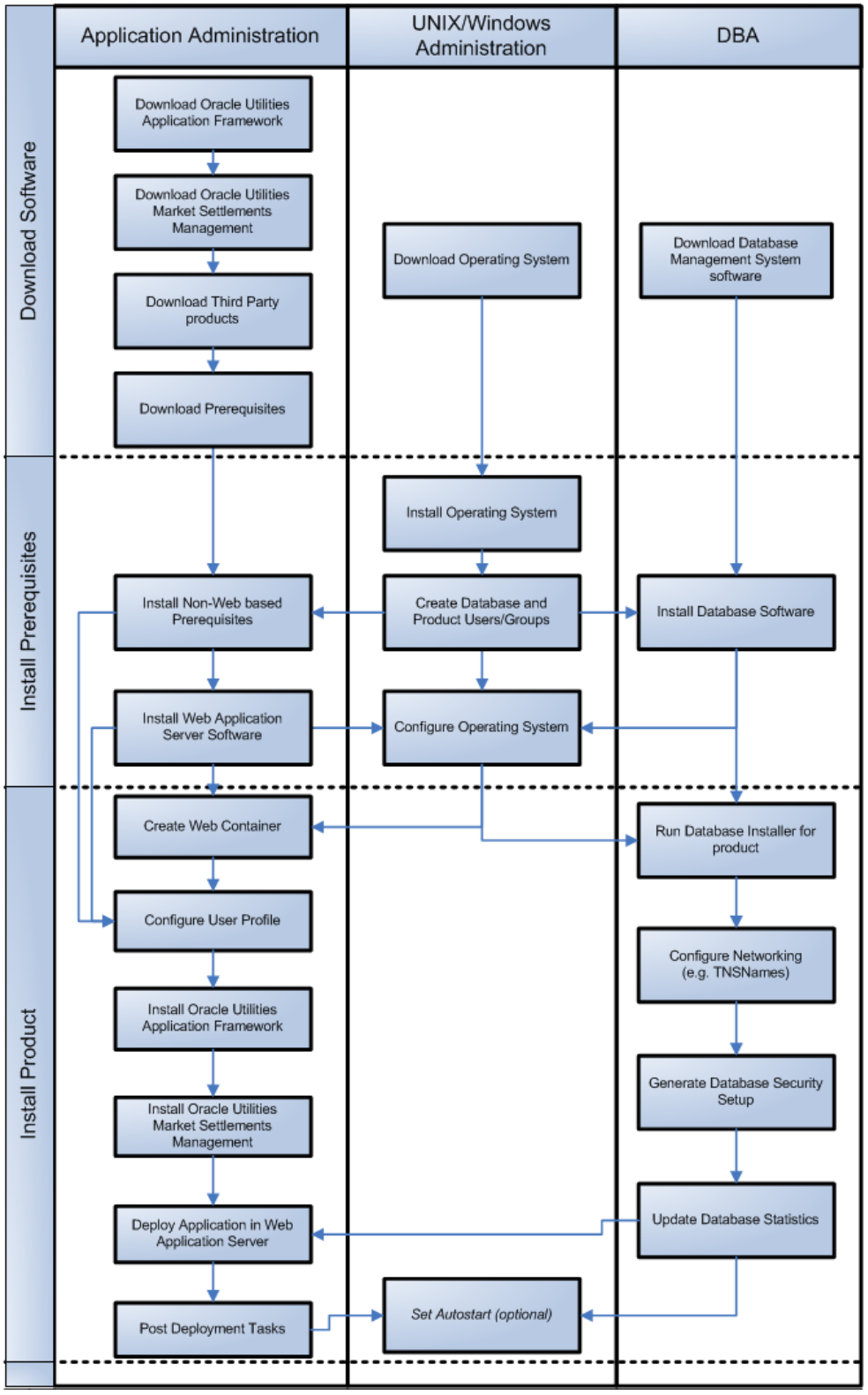
Installation Overview

This section provides a high-level overview of the installation steps for Oracle Utilities Market Settlements Management (MSM) and selected additional software. For more information, refer to the *Oracle Utilities Market Settlements Management Installation Guide*.

Installing Oracle Utilities Market Settlements Management involves the following steps:

1. Review the different tiers of the application architecture as described in the Application Architecture section of the installation guide.
2. Understand the hardware requirements for installing the application and the supported platforms as described in the Supported Platforms and Hardware Requirements section of the installation guide.
3. Plan your installation as described in the Planning the Installation section of the installation guide.
4. Install all required third-party software as described in the Installing Prerequisite Software section of the installation guide.
5. Install the database as described in the *Oracle Utilities Market Settlements Management Database Administrator's Guide*.
6. Install the framework for the application.
7. Install Oracle Utilities Market Settlements Management.
8. Complete post installation tasks as described in the Additional Tasks section of the installation guide.

The following diagram provides an overview of the steps that need to be taken to install and configure Oracle Utilities Market Settlements Management:



Refer to My Oracle Support for up-to-date additional information on Oracle Utilities Meter Data Management installation.

Installation Components

The Oracle Utilities Market Settlements Management product installation consists of the following components:

- Database Components
  - Oracle Utilities Application Framework database
  - Oracle Utilities Meter Data Management database
- Application Components
  - Oracle Utilities Application Framework application
  - Oracle Utilities Meter Data Management application

For a successful installation, you must install ALL of the above components.

Installation Types

The first step in the installation procedure is to determine the installation type that meets your business requirements. The following are the possible installation types:

- Initial Installation - A base installation, typically used for a production environment
- Demo Installation - A base installation with pre-populated demo data, typically used for demonstration or training purposes
- Upgrade Installation - An upgrade installation from version 2.1.0.3.0 or 2.2.0.2.0 to version 2.2.0.3.0.

The following sections describe these installation types in detail.

Initial Installation

This installation type is applicable when installing Oracle Utilities Market Settlements Management for the first time or from scratch. For an initial install, you must install all of the following components:

- Database components

  Refer to the "Initial Install" section of the Oracle Utilities Market Settlements Management *Database Administrator's Guide* for more information.
- Application components
  - Oracle Utilities Application Framework application
  - Oracle Utilities Meter Data Management application

Refer to the **Initial Installation** chapter in the Oracle Utilities Market Settlements Management *Installation Guide* for steps involved in installing each of the above components.

Demo Installation

This installation type is applicable when installing a demo application of Oracle Utilities Meter Data Management for demonstration or training purposes. For a demo install, you must install all of the following components:

- Demo Database components

  Refer to the **Demo Install** section in the Oracle Utilities Market Settlements Management *Database Administrator's Guide* for more information.

- Application components
  - Oracle Utilities Application Framework application
  - Oracle Utilities Meter Data Management application

Refer to the **Demo Installation** chapter in the Oracle Utilities Market Settlements Management *Installation Guide* for the steps involved in installing each of the above components.

Upgrade Installation

This installation type is applicable when upgrading Oracle Utilities Market Settlements Management from version 2.1.0.3.0 or 2.2.0.2.0 to version 2.2.0.3.0. For an upgrade, you must upgrade all of the following components:

Note: Customers who have a version prior to 2.1.0.3 must install 2.1.0.3 before upgrading to 2.2.0.3.

- Database components

  Refer to the **Upgrade Install** section in the Oracle Utilities Market Settlements Management *Database Administrator's Guide* for more information.

- Application components
  - Oracle Utilities Application Framework application
  - Oracle Utilities Meter Data Management application

Refer to the **Upgrading** chapter in the *Oracle Utilities Market Settlements Management Installation Guide* for steps involved in upgrading each of the above components.

Recommendations for Creating a Production Environment

For a production environment, Oracle recommends that you complete the Initial Installation installation type. If there is any custom configuration that needs to be migrated from a development or "gold" environment into production, the migration can be done by using the Configuration Migration Assistant (CMA). Please refer to the appendix "Configuration Migration Assistant" in the *Oracle Utilities Meter Data Management Configuration Guide* for more details about CMA.

Oracle does not recommend creating a production environment by using the Demo Installation installation type, or by cloning an existing Demo installation.

Media Pack Components

The Oracle Utilities Market Settlements Management Media Pack consists of the following packages:

Documentation Packages

- Oracle Utilities Market Settlements Management V2.2.0.3.0 Quick Install Guide
- Oracle Utilities Market Settlements Management V2.2.0.3.0 Release Notes
- Oracle Utilities Market Settlements Management V2.2.0.3.0 Supplemental Documentation
- Oracle Utilities Market Settlements Management V2.2.0.3.0 User Documentation
- Oracle Utilities Market Settlements Management V2.2.0.3.0 Install Documentation

Installation Packages

- Oracle Utilities Meter Data Management V2.2.0.3.0 Reports
- Oracle Utilities Market Settlements Management V2.2.0.3.0 Demo
- Oracle Utilities Meter Data Management V2.2.0.3.0 Multiplatform
- Oracle Fusion Middleware 12c (12.2.1.3) Web Logic Server and Coherence

  Note: Oracle Utilities Market Settlements Management is delivered as part of the Oracle Utilities Meter Data Management installation package.

Chapter 2

Supported Platforms and Hardware Requirements

The following sections provide information on the supported platforms and requirements, including:

- Operating Systems and Application Servers
- Hardware and Web Browser Requirements
- Application Server Memory Requirements
- Support for Software Patches and Upgrades

Operating Systems and Application Servers

This section details the operating system and application server combinations on which this version of Oracle Utilities Market Settlements Management is supported.

Application Server Operating Systems

- Oracle Linux 6.5+ for x86_64Oracle Linux 7.x for x86_64
- Oracle Solaris 11.x for SPARC (64-bit)
- IBM AIX 7.1/7.2 TLx for POWER (64-bit)

Prerequisite Application Server Software

- Oracle Database Client 12.2.0.1+
- Oracle Java SE Development Kit 1.8.0_131+(Oracle platforms only)
- IBM 64-bit SDK for AIX 8.0.0.x (IBM platforms only)
- Hibernate ORM 4.1.0 and Hibernate 5.2.3 jars
- Oracle WebLogic Server 12c Release 2 (12.2.1.3+) 64-bit

Notes

- Oracle Linux is 100% user space-compatible with Red Hat Enterprise Linux, therefore, OUAF is also supported on Red Hat Enterprise Linux.

- Refer to the *Oracle Utilities Application Framework Database Administrator's Guide* for the Oracle Database Server Requirements.

Refer to the *Product Support Matrix (Document ID 1454143.1)* on My Oracle Support to determine if support for newer versions of the listed products have been added.

Please note the following:

- Version numbers marked with a "+" are the MINIMUM version supported. That version and all future 4th digit updates will be supported.

  Example: Oracle 12.2.0.1+ means that 12.2.0.1 and any higher 12.2.0.x versions of Oracle are supported.

  * An "x" indicates that any version of the digit designed by the "x" is supported.

  Example: Linux 7.x indicates that any version of Linux 7 (7.0, 7.1, 7.2 etc) will be supported.

Windows Server

- Windows Server is **not** supported for Production environments. Wherever Windows Server is referenced within this guide, it is supported for Test or Development environments **only**.

WebLogic Server

- Oracle WebLogic Server (Fusion Middleware Infrastructure) Release 2 (12.2.1.3+) and any higher versions of Oracle are supported.
- Customers must download Oracle WebLogic Server from the Oracle Software Delivery Cloud.

Oracle Database Server

Prerequisite Database Server Software (on any vendor supported platform where x is vendor supported version):

- Oracle Database Server Enterprise Edition 12.1.0.
- Oracle Database Server Standard Edition 2 12.1.0.
- Oracle Database Server Enterprise Edition 12.2.0.x
- Oracle Database Server Standard Edition 2 12.2.0.x

  Note: Oracle Database Enterprise Edition and the Partitioning and Advanced Compression options are strongly recommended in all situations.

Oracle VM Support

This version of Oracle Utilities Market Settlements Management is supported on Oracle VM Server for x86 for supported releases of Oracle Linux and Microsoft Windows operating systems.

Refer to My Oracle Support knowledge base article 249212.1 for Oracle's support policy on VMWare.

Hardware and Web Browser Requirements

The following section outlines client side hardware requirements for Oracle Utilities Market Settlements Management.

Client Side Hardware Requirements

Configuration	Processor	Memory (RAM)	Monitor (Display)
Minimum	1 GHz or faster 64-bit (x64) processor	2 GB	1280x1024
Recommended*	3 GHz or faster 64-bit (x64) processor	4 GB	1280X1024

* The Recommended configuration supports better performance of the client.

Web Browser Requirements

The web browsers listed below are supported when used on each of the operating systems indicated:

Browser	Windows Operating System
Internet Explorer 11	Microsoft Windows 7, 8.1, 10 (64-bit)
Firefox ESR 52	Microsoft Windows 7, 8.1, 10 (64-bit)
Google Chrome	Microsoft Windows 7, 8.1, 10 (64-bit)

Application Server Memory Requirements

For each application server environment a minimum of 4 GB of real memory is required, plus 6 GB of swap space. The approximate disk space requirements in a standard installation are as follows (the size represents the MINIMUM required):

Location	Size	Usage
Install Dir ("$SPLEBASE") Location	10 GB recommended 5 GB minimum	This is the location where the application and Framework get installed. Startup, shutdown and other online log files are stored here. The size and space that is used should be monitored because various debugging options can significantly affect the size of log files. **Note**: This does not include the size of the edge product.
Log Dir ("$SPLOUTPUT") Location	4 GB recommended 2 GB minimum	This location is used for storing batch log files and output from batch jobs. The size of this space should be influenced by which batches are run and how often, and the amount of debugging information that is collected.
Location of the application web work files on the web servers	5 GB recommended 2 GB minimum	This location is used by various web server vendors to expand the application. It should be considered when installing these products. Refer to the individual web server documentation to determine the location of the temporary files.
Installation Temporary Area	4 GB minimum	The application gets installed from this location. You need enough space to un-compress the files and install the application.
Oracle Data Area	4 GB minimum	This location is where the Oracle database data files are stored. The size of this space should be based on the requirements of the production environment. For an initial or demo database install 4 GB should be sufficient.

Support for Software Patches and Upgrades

Due to the ongoing nature of software improvement, vendors will periodically issue patches and service packs for the operating systems, application servers and database servers on top of specific versions that Oracle products have already been tested against.

If it is necessary to apply an upgrade, please do so in a test environment that is running on the same platform as your production environment prior to updating the production environment itself. The exception to this is Hibernate software 4.1.0 which should not be upgraded.

Always contact Oracle Support prior to applying vendor updates that do not guarantee backward compatibility.

Chapter 3

Planning the Installation

This chapter provides information for planning an Oracle Utilities Market Settlements Management installation, including:

- Before You Install
- Prerequisite Software List
- Installing Prerequisite Software
- Readiness Checklist

Before You Install

Refer to My Oracle Support for up-to-date additional information about installing Oracle Utilities Market Settlements Management.

WebLogic Native Installation

With Oracle Utilities Application Framework [FW Version], a WebLogic native installation is required. Refer to the *Oracle WebLogic 12.2.1.x Configuration Guide for Oracle Utilities Framework (Doc ID 2413918.1)* whitepaper on My Oracle Support.

Application Server Clustering

If you are considering application server clustering, refer to the *Oracle WebLogic 12.2.1.x Configuration Guide for Oracle Utilities Framework (Doc ID 2413918.1)* whitepaper on My Oracle Support for additional information.

Additional information about WebLogic clustering can be found at http://docs.oracle.com/cd/E17904_01/web.1111/e13709/toc.htm.

Directory Names

Directory cannot contain whitespace characters.

Prerequisite Software List

Before you install Oracle Utilities Market Settlements Management, you must install prerequisite software.

Refer to the respective installation documentation of the software for instructions on downloading and installing.

Prerequisite Software for Database Server

The prerequisite software for the database component of Oracle Utilities Market Settlements Management is as follows:

- **Oracle Database Server 12.1.0.1+** - This is required for installing the database component of the Oracle Utilities Market Settlements Management product. The following version of the database server is supported:
  - Oracle Database Enterprise Edition

  Note: Oracle Database Enterprise Edition and the Partitioning and Advanced Compression options are strongly recommended in all situations.

Prerequisite Software for Application Server

The prerequisite software for the application component of Oracle Utilities Market Settlements Management is as follows:

- Oracle Database 12c Client
- JDK 1.8.0_131+ (64-bit)
- Oracle WebLogic 12c (12.2.1.3+)
- Hibernate 4.1.0 Final, Hibernate 5.5.4 Final

Web Browser Requirements

The web browsers listed below are supported when used on each of the operating systems indicated:

Browser	Windows Operating System
Internet Explorer 11	Microsoft Windows 7, 8.1, 10 (64-bit)
Firefox ESR 52	Microsoft Windows 7, 8.1, 10 (64-bit)
Google Chrome	Microsoft Windows 7, 8.1, 10 (64-bit)

Installing Prerequisite Software

Refer to the section "**Installing Prerequisite Software**" in the Oracle Utilities Market Settlements Management *Installation Guide* for detailed instructions on installing the prerequisite software.

Readiness Checklist

The following checklist will guide you through the installation process of Oracle Utilities Market Settlements Management. The details for each step are presented in the Oracle Utilities Market Settlements Management *Installation Guide*.

1. Confirm recommended hardware is ready. Refer to **Supported Platforms and Hardware Requirements** for more details.
2. Install prerequisite software, refer to **Prerequisite Software List** for more details.
3. Ensure that you have downloaded Oracle Utilities Market Settlements Management components.
4. Go through the installation and configuration worksheets to understand the configuration menu.
5. Determine type of the installation:
    - **Initial Installation** - For initial installation follow the instructions mentioned in Oracle Utilities Market Settlements Management *Installation Guide*.
    - **Demo Installation** - For demo installation follow the instructions mentioned in Oracle Utilities Market Settlements Management *Installation Guide*.
    - **Upgrade Installation** - For upgrade installation follow the instructions mentioned in Oracle Utilities Market Settlements Management *Installation Guide*.
6. Perform post-installation tasks.

Chapter 4

Installing Oracle Utilities Market Settlements Management - Initial Installation

This chapter provides an overview of installing Oracle Utilities Market Settlements Management from scratch. This chapter includes:

- Before You Install
- Initial Installation Procedure

Before You Install

Refer to My Oracle Support for up-to-date additional information on Oracle Utilities Market Settlements Management.

Initial Installation Procedure

The initial installation procedure consists of:

- Database Component Installation
- Application Components Installation

Database Component Installation

Installation of the database component of Oracle Utilities Market Settlements Management must be complete before you can proceed with the following sections. Refer to the **Initial Install** section in the Oracle Utilities Market Settlements Management *Database Administrator's Guide*, which provides instructions on installing the database component.

Application Components Installation

Refer to the **Installing Oracle Utilities Meter Data Management - Initial Installation** section in the Oracle Utilities Market Settlements Management *Installation Guide*, which provides instructions on installing the application components.

Chapter 5

Installing Oracle Utilities Market Settlements Management - Demo Installation

This chapter provides an overview of the instructions for setting up a demo application of Oracle Utilities Market Settlements Management useful for demonstration or training purposes. This chapter includes:

- Before You Install
- Demo Installation Procedure

Before You Install

Refer to My Oracle Support for up-to-date additional information on Oracle Utilities Market Settlements Management.

Demo Installation Procedure

The demo installation procedure consists of:

- Database Component Installation
- Application Components Installation

Database Component Installation

Installation of the database component of Oracle Utilities Market Settlements Management must be complete before you can proceed with the following sections. Refer to the **Demo Install** section in the *Oracle Utilities Market Settlements Management Database Administrator's Guide*, which provides instructions on installing the database component with pre-populated demo data.

Application Components Installation

Refer to the **Installing Oracle Utilities Market Settlements Management - Demo Installation** chapter in the *Oracle Utilities Market Settlements Management Installation Guide*, which provides instructions on installing the application components.

Chapter 6

Upgrading Oracle Utilities Market Settlements Management

This chapter provides an overview of upgrading Oracle Utilities Market Settlements Managementfrom V2.1.0.3.0 or V2.2.0.2.0 to V2.2.0.3.0. It includes:

- Before You Upgrade
- Upgrade Procedure

Before You Upgrade

Review the list of operating system, application server and database server combinations that Oracle Utilities Market Settlements Management is certified to operate on, in the Supported Platforms and Hardware Requirements chapter.

For further assistance, contact My Oracle Support before you upgrade.

Upgrade Procedure

The initial installation procedure consists of:

- Database Component Upgrade
- Application Components Upgrade

Database Component Upgrade

Upgrade of the database component of Oracle Utilities Market Settlements Management must be complete before you can proceed with the following sections. Refer to the **Upgrade Install** chapter in the *Oracle Utilities Market Settlements Management Database Administrator's Guide*, which provides instructions on upgrading the database component.

Application Components Upgrade

Refer to the **Upgrading** Oracle Utilities Market Settlements Management chapter in the *Oracle Utilities Market Settlements Management Installation Guide*, which provides instructions on installing the application components.

Appendix A

Additional Information for Installing Other Oracle Software

Please read this section and the follow directions if you purchased a license from Oracle for Oracle WebLogic.

Oracle WebLogic

Customers must download Oracle WebLogic Server from the Oracle Software Delivery Cloud. The version of Oracle WebLogic Server is in the Oracle Utilities Market Settlements Management Supported Platforms Summary section.

> **Note:** If you install a temporary license for Oracle WebLogic, please note that this license is limited to 5 non-current users. You will need to install the full license.

Install the Oracle WebLogic License

To apply a full license you will need to complete the following steps:

1. The license keys for Oracle WebLogic products are located at: http://licensecodes.oracle.com/bea.html
2. The following products are supported: Oracle WebLogic Server Standard Edition and Oracle WebLogic Server Enterprise Edition.
3. At the time of release of this document the license key on the web site for Oracle WebLogic Server Standard Edition is BEA WebLogic Server Advantage Edition. The license key for Oracle WebLogic Server Enterprise Edition on the web site is BEA WebLogic Server Premium Edition.
4. Shut down the Oracle Utilities Market Settlements Management application server.
5. Follow the instructions from the Oracle WebLogic installation document to install the license key.
6. Start the Oracle Utilities Market Settlements Management application server.