**Oracle Utilities Market Settlements Management**

Quick Install Guide

Release 2.5.0.0.0

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Oracle Utilities Market Settlements Management Quick Install Guide

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# Preface

Welcome to the Oracle Utilities Market Settlements Management Quick Install Guide.

This guide provides an overview about how to install Oracle Utilities Market Settlements Management V2.5.0.0.0.

The preface includes:

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

# Audience

This guide is intended for anyone interested in the installation process.

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 Meter Solution Business User Guide*

- *Oracle Utilities Meter Solution Administrative User Guide*

**Supplemental Documents**
- *Security Guide*

- *Server Administration Guide*

# Updates to Documentation

The complete Oracle Utilities Market Settlements Management documentation set is available from Oracle Help Center at https://docs.oracle.com/en/industries/utilities/index.html.

Visit My Oracle Support for additional and updated information about the product.

# 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. |

| Convention | Meaning |
| --- | --- |
| 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. |
| 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 website.

# Chapter 1

## Product and Installation Overview

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

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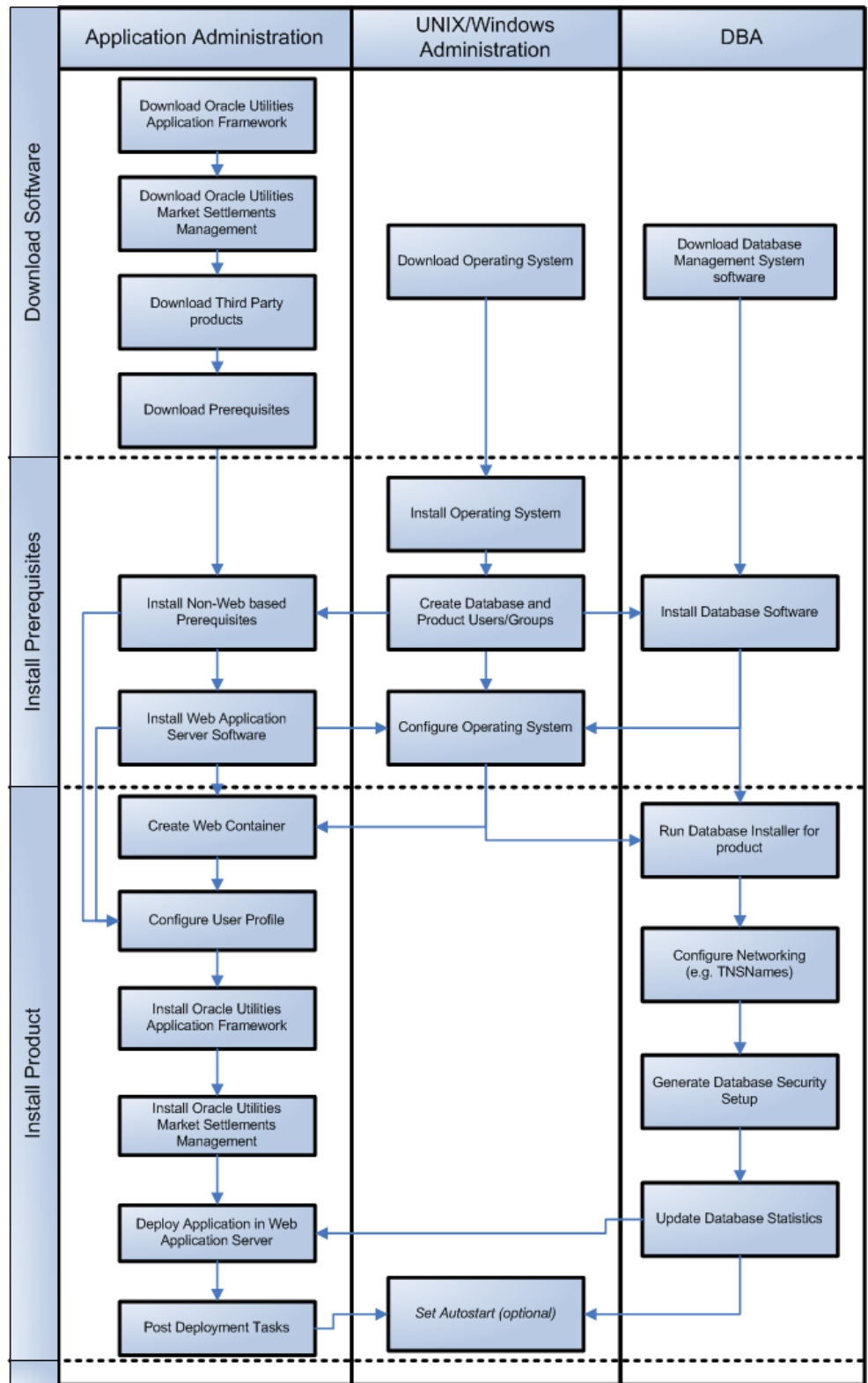
# Installation Overview

This section provides a high-level overview of the installation steps for Oracle Utilities Market Settlements Management (MSM) and selected additional software.

Installing Oracle Utilities Market Settlements Management involves the following steps:

1. Review the different tiers of the application architecture. Refer to the **Application Architecture** section in the *Oracle Utilities Market Settlements Management Installation Guide*.

2. Understand the hardware requirements for installing the application and the supported platforms. Refer to the **Supported Platforms and Hardware Requirements** section in the *Oracle Utilities Market Settlements Management Installation Guide*.

3. Plan your installation. Refer to the **Planning the Installation** section in the *Oracle Utilities Market Settlements Management Installation Guide*.

4. Install all required third-party software. Refer to the **Installing Prerequisite Software** section in the *Oracle Utilities Market Settlements Management Installation Guide*.

5. Install the database. Follow the instructions 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. Refer to the **Additional Tasks** section in the *Oracle Utilities Market Settlements Management Installation Guide*.

For more information, refer to the *Oracle Utilities Market Settlements Management 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 Market Settlements 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 v2.2.0.2.0, v2.2.0.3.0, v2.3.0.2.0 and v2.4.0.0.0 to v2.5.0.0.0.

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 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 **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 V2.2.0.2.0, V2.2.0.3.0, V2.3.0.2.0 and V2.4.0.0.0 to V2.5.0.0.0.

> **Note**: If you have a version prior to 2.2.0.2.0, you must install 2.2.0.2.0 before upgrading to 2.5.0.0.0.
>
> If you have V2.3.0.0.0 installed, you must install V2.3.0.2.0 before upgrading to V2.5.0.0.0.

For an upgrade, you must upgrade all of the following components:

- 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 Quick Install Guide

- Oracle Utilities Market Settlements Management Release Notes

- Oracle Utilities Market Settlements Management Supplemental Documentation

- Oracle Utilities Market Settlements Management User Documentation

- Oracle Utilities Market Settlements Management Install Documentation

## Installation Packages

- Oracle Utilities Meter Data Management Reports

- Oracle Utilities Market Settlements Management Demo

- Oracle Utilities Application Framework V4.5.0.0.0 Multiplatform

- Oracle Utilities Application Framework V4.5.0.0.0 Oracle Database

- Oracle Utilities Meter Data Management Multiplatform

  **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

This chapter provides information on the supported platforms and requirements, including:

- Operating Systems and Application Servers

- Hardware and Web Browser RequirementsHardware 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 8.x for x86_64

- Oracle Solaris 11.4+ for SPARC (64-bit)

- IBM AIX 7.2. TL5+ for POWER (64-bit)

### Prerequisite Application Server Software

- Oracle Database Client 19c

- Oracle Java SE Development Kit 1.8.0_291+ (Windows, Solaris and Linux platforms only)

- IBM 64-bit SDK for AIX 8.0.x.x (IBM platforms only)

- Select jars from Hibernate ORM 4.1.0

- Oracle WebLogic Server 12c (Release 12.2.1.4) 64-bit

  **Notes:**

  Oracle Linux is 100% user space-compatible with Red Hat Enterprise Linux, therefore, Oracle Utilities Application Framework 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 *Certification Matrix for Oracle Utilities Products (Document ID 1454143.1)* document 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 12.1.0.2+ means that 12.1.0.2 and any higher 12.1.0.x versions of Oracle are supported.

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

  **Example**: Linux 8.x indicates that any version of Linux 8 (8.0, 8.1, 8.2 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 12.2.1.4

- 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 19c

- Oracle Database Server Standard Edition 2 19c

  **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 |
|---|---|
| Microsoft Edge for Business 81+ (Edge Chromium) | Microsoft Windows 10 Version x 64-bit |
| Mozilla Firefox ESR 91.x | Microsoft Windows 10 Version x 64-bit |
| Google Chrome Enterprise 81+ | Microsoft Windows 10 Version x 64-bit |

| Browser | Windows Operating System |
|---|---|
| Apple Mobile Safari | Apple iPad iOS 15.x |

# 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 | 10 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 | 10 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 | 10 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 4.5.0.0.0, 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)* document on My Oracle Support for more information.

## 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)* document on My Oracle Support.

Additional information about WebLogic clustering, refer to the Fusion Middleware Using Clusters for Oracle WebLogic Server documentation.

## 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 19c** - 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_291+ (64-bit)

- Oracle WebLogic 12c (12.2.1.4)

- 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 |
|---|---|
| Microsoft Edge for Business 81+ (Edge Chromium) | Microsoft Windows 10 Version x 64-bit |
| Mozilla Firefox ESR 91.x | Microsoft Windows 10 Version x 64-bit |
| Google Chrome Enterprise 81+ | Microsoft Windows 10 Version x 64-bit |
| Apple Mobile Safari | Apple iPad iOS 15.x |

# Installing Prerequisite Software

For detailed instructions about installing the prerequisite software, refer to the **Installing Prerequisite Software** section in *Oracle Utilities Market Settlements Management Installation Guide.*

# 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 *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. Make sure 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 the type of installation - initial, demo or upgrade.

6. Perform the 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. It includes the following sections:

- 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:

- Installing the Database Component
- Installing the Application Components

## Installing the Database Component

Install the Oracle Utilities Market Settlements Management database component before installing the other components.

For instructions to install the database component, refer to the **Initial Install** section in *Oracle Utilities Market Settlements Management Database Administrator's Guide*.

## Installing the Application Components

Refer to the **Installing Oracle Utilities Meter Data Management - Initial Installation** section in *Oracle Utilities Market Settlements Management Installation Guide* for instructions to install 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:

- Installing the Database Component
- Installing the Application Components

## Installing the Database Component

The Oracle Utilities Market Settlements Management database component must be installed before installing the other components.

For instructions to install the database component with pre-populated demo data, refer to the **Demo Install** section in the *Oracle Utilities Market Settlements Management Database Administrator's Guide.*

## Installing the Application Components

Refer to the **Installing** Oracle Utilities Market Settlements Management **- Demo Installation** chapter in the *Oracle Utilities Market Settlements Management Installation Guide* for instructions to install the application components.

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# Chapter 6

## Upgrading Oracle Utilities Market Settlements Management

Oracle Utilities Market Settlements Management V2.5.0.0.0 supports the upgrade from V2.2.0.2.0, V2.2.0.3.0, V2.3.0.2.0 and V2.4.0.0.0 to V2.5.0.0.0.

> **Note**: If you have a version prior to 2.2.0.2.0, you must install 2.2.0.2.0 before upgrading to 2.5.0.0.0.
>
> If you have V2.3.0.0.0 installed, you must install V2.3.0.2.0 before upgrading to V2.5.0.0.0.

This chapter focuses on the following:

- 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. The list is provided in Supported Platforms and Hardware Requirements.

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

# Upgrade Procedure

The initial installation procedure consists of:

- Upgrading the Database Component
- Upgrading the Application Components

## Upgrading the Database Component

Upgrade the Oracle Utilities Market Settlements Management database component before upgrading the other components.

For instructions to upgrade the database component, refer to the **Upgrade Install** section in the *Oracle Utilities Market Settlements Management Database Administrator's Guide.*

## Upgrading the Application Components

Refer to the **Upgrading** Oracle Utilities Market Settlements Management chapter in the *Oracle Utilities Market Settlements Management Installation Guide* for instructions to install the application components.