Oracle Utilities Meter Data Management

Quick Install Guide

Release 2.5.0.1.1

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Oracle Utilities Meter Data Management Quick Install Guide

Contents

Chapter 6

Preface

Welcome to the Oracle Utilities Meter Data Management Quick Install Guide for release 2.5.0.1.1.

The preface includes:

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

Audience

This guide is intended for system administrators installing Oracle Utilities Meter Data Management.

To complete the 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

For more information, see these Oracle documents.

Installation, Configuration, and Release Notes
- *Oracle Utilities Meter Data Management Release Notes*

- *Oracle Utilities Meter Data Management Quick Install Guide*

- *Oracle Utilities Meter Data Management Installation Guide*

- *Oracle Utilities Meter Data Management Database Administrator's Guide*

- *Oracle Utilities Meter Data 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 Meter Data Management documentation set is available from Oracle Help Center at https://docs.oracle.com/en/industries/energy-water/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.

Convention	Meaning
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.
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

Acronym	Definition
XAIApp	XML Application Integration

Additional Resources

For more information and support, visit the Oracle Support website.

Chapter 1

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 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 Meter Data 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+ (Solaris and Linux platforms)

- 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: For implementations involving large volumes of meter data, Oracle recommends using Oracle Exadata. Oracle Exadata is a database machine and storage server designed to optimize enterprise-class databases and their workloads, comprising prepackaged database servers, storage servers, and storage networking.

Oracle VM Support

This version of Oracle Utilities Meter Data 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 Meter Data 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
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 ("$SPLEBASE") Location	10 GB recommended 5 GB minimum	Location where the application and Framework get installed. Startup, shutdown and other online log files are stored here. The size and space that is used should be monitored because various debugging options can significantly affect the size of log files. **Note**: This does not include the size of the edge product.
Log Dir ("$SPLOUTPUT") Location	10 GB recommended 2 GB minimum	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	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	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 issue patches and service packs for the operating systems, application servers and database servers on top of specific versions that Oracle Utilities Meter Data Management has been tested with.

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 Oracle Utilities Meter Data Management production environment.

Note that Oracle 19c is an exception from this rule. Do not upgrade it.

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

Chapter 2

Installation Overview

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

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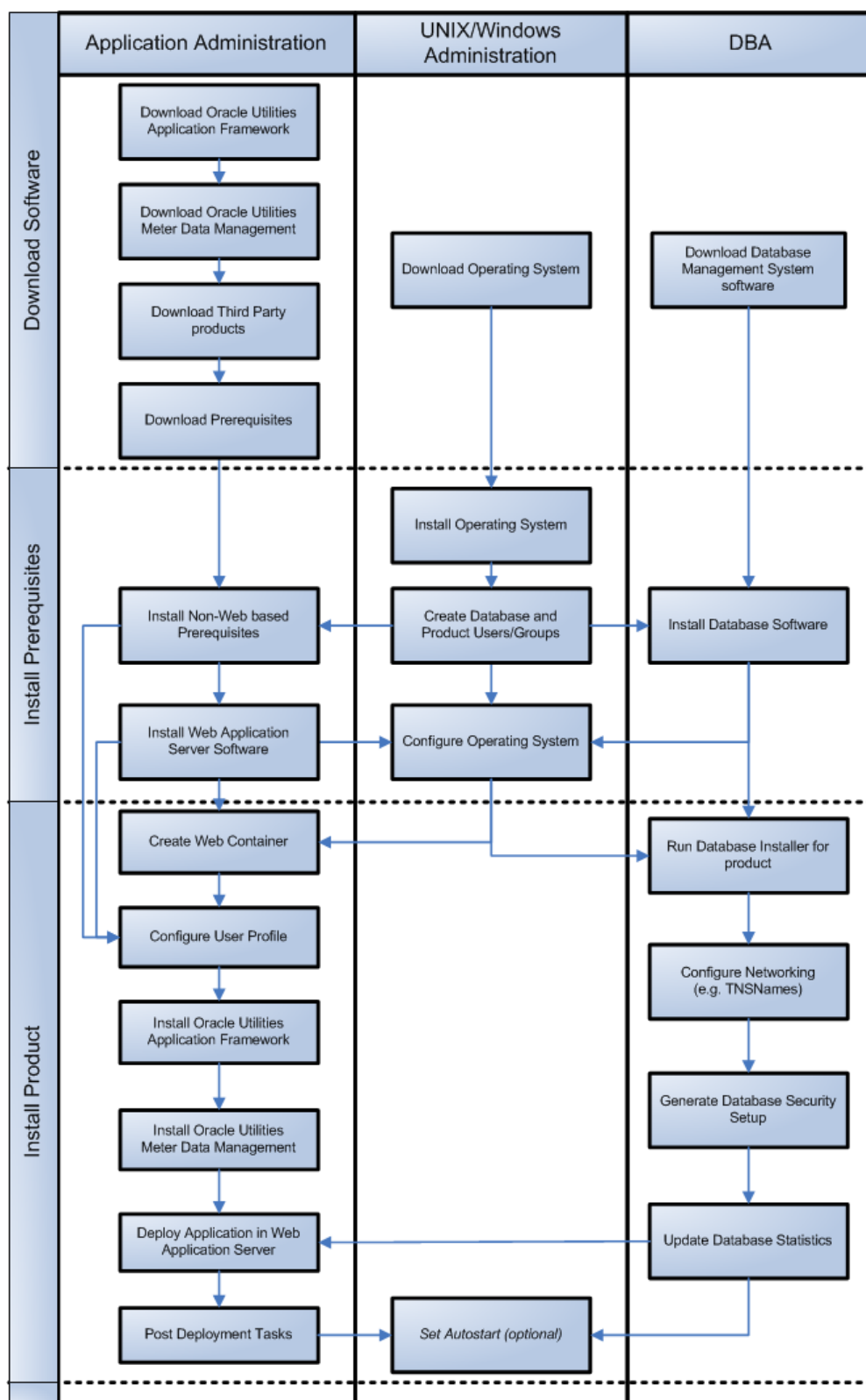- Installation Types
- Media Pack Components

Installation Overview

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

Installing Oracle Utilities Meter Data Management involves the following steps:

1. Review the different tiers of the application architecture as described in the **Application Architecture** section in the *Oracle Utilities Meter Data Management Installation Guide*.

2. Understand the hardware requirements for installing the application and supported platforms as described in the **Supported Platforms and Hardware Requirements** section in the *Oracle Utilities Meter Data Management Installation Guide*.

3. Plan your installation as described in the **Planning the Installation** section in the *Oracle Utilities Meter Data Management Installation Guide*.

4. Install all required third-party software as described in the **Installing Prerequisite Software** section in the *Oracle Utilities Meter Data Management Installation Guide*.

5. Install the database as described in the *Oracle Utilities Meter Data Management Database Administrator's Guide*.

6. Install the framework for the application.

7. Install the Oracle Utilities Service and Measurement Data Foundation for the application.

8. Install Oracle Utilities Meter Data Management.

9. Complete post installation tasks as described in the **Additional Tasks** section in the *Oracle Utilities Meter Data Management Installation Guide*.

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

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

Installation Components

The Oracle Utilities Meter Data 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 v2.2.0.3.0, v2.3.0.2.0, v2.4.0.0.0, v2.5.0.0.0, and 2.5.0.1.0 to v2.5.0.1.1.

The following sections describe these installation types in detail.

Initial Installation

This installation type is applicable when installing Oracle Utilities Meter Data 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 Meter Data Management Database Administrator's Guide* for more information.

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

Refer to the **Installing Oracle Utilities Meter Data Management - Initial Installation** chapter in the *Oracle Utilities Meter Data 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 Meter Data Management Database Administrator's Guide* for more information.

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

Refer to the **Installing Oracle Utilities Meter Data Management - Demo Installation** chapter in the *Oracle Utilities Meter Data 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 Meter Data Management from v2.2.0.3.0, v2.3.0.2.0, 2.4.0.0.0, v2.5.0.0.0, and v2.5.0.1.0 to v2.5.0.1.1.

> **Note**: If you have a version prior to 2.2.0.3.0, you must install 2.2.0.3.0 before upgrading to v2.5.0.1.1.
>
> If you have v2.3.0.0.0 installed, you must install v2.3.0.2.0 before upgrading to v2.5.0.1.1.

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

- Database components

  Refer to the **Upgrade Install** section in the *Oracle Utilities Meter Data 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 Oracle Utilities Meter Data Management** chapter in the *Oracle Utilities Meter Data 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 Meter Data Management Media Pack consists of the following packages:

Documentation Packages

- Oracle Utilities Meter Data Management V2.5.0.1.1 Quick Install Guide

- Oracle Utilities Meter Data Management V2.5.0.1.1 Release Notes

- Oracle Utilities Meter Data Management V2.5.0.1.1 Supplemental Documentation

- Oracle Utilities Meter Data Management V2.5.0.1.1 User Documentation

- Oracle Utilities Meter Data Management V2.5.0.1.1 Install Documentation

Installation Packages

- Oracle Utilities Meter Data Management V2.5.0.1.1 Reports

- Oracle Utilities Meter Data Management V2.5.0.1.1 Demo

- Oracle Utilities Application Framework V4.5.0.1.1 Multiplatform

- Oracle Utilities Application Framework V4.5.0.1.1 Oracle Database

- Oracle Utilities Meter Data Management V2.5.0.1.1 Multiplatform

Chapter 3

Planning the Installation

This chapter provides information for planning an Oracle Utilities Meter Data 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 Meter Data Management.

WebLogic Native Installation

With Oracle Utilities Application Framework 4.5.0.1.1, 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 Meter Data Management, you must install prerequisite software. Refer to the respective installation documentation for instructions to download and install the software.

Prerequisite Software for Database Server

The prerequisite software for the Oracle Utilities Meter Data Management database component is as follows:

- **Oracle Database Server 19c** - This is required for installing the database component of the Oracle Utilities Meter Data 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 Oracle Utilities Meter Data Management application component is as follows:

- Oracle Database Client 19c
- JDK 1.8.0_261+ (Windows, Solaris and Linux platforms only) 64-bit
- IBM 64-bit SDK for AIX 8.0.0.x (IBM platforms only)
- Oracle WebLogic 12c (12.2.1.4)
- Select jars from Hibernate ORM 4.1.0

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

Refer to the **Installing Prerequisite Software** section in *Oracle Utilities Meter Data Management Installation Guide* for detailed instructions to install the prerequisite software.

Readiness Checklist

The following checklist will guide you through the Oracle Utilities Meter Data Management installation process. The details for each step are provided in the *Oracle Utilities Meter Data 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 Meter Data Management components.

4. Go through the installation and configuration worksheets to understand the configuration menu.

5. Determine type of the installation. For specific instructions refer to the *Oracle Utilities Meter Data Management Installation Guide.*

   - Initial Installation

   - Demo Installation

   - Upgrade Installation

6. Perform post-installation tasks.

Chapter 4

Installing Oracle Utilities Meter Data Management - Initial Installation

This chapter provides an overview of installing Oracle Utilities Meter Data Management from scratch. It includes the following sections:

- Before You Install
- Initial Installation Procedure

Before You Install

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

Initial Installation Procedure

The initial installation procedure consists of:

- Installing the Database Component
- Installing the Application Components

Installing the Database Component

Make sure that the Oracle Utilities Meter Data Management database component is installed before installing the application components.

Refer to the **Initial Install** section in *Oracle Utilities Meter Data Management Database Administrator's Guide* for instructions to install the database component.

Installing the Application Components

Refer to the **Installing Oracle Utilities Meter Data Management - Initial Installation** section in *Oracle Utilities Meter Data Management Installation Guide* for instructions to install the application components.

Chapter 5

Installing Oracle Utilities Meter Data Management - Demo Installation

This chapter provides an overview of the instructions for setting up a demo application of Oracle Utilities Meter Data Management useful for demonstration or training purposes. It includes the following sections:

- Before You Install
- Demo Installation Procedure

Before You Install

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

Demo Installation Procedure

The demo installation procedure consists of:

- Database Component Installation
- Application Components Installation

Database Component Installation

Make sure that the Oracle Utilities Meter Data Management database component is installed before installing the application components.

Refer to the **Demo Install** section in *Oracle Utilities Meter Data Management Database Administrator's Guide* for instructions to install the database component with pre-populated demo data.

Application Components Installation

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

Chapter 6

Upgrading Oracle Utilities Meter Data Management

Oracle Utilities Meter Data Management 2.5.0.1.1 supports the upgrade from v2.2.0.3.0, v2.3.0.2.0, v2.4.0.0.0, v2.5.0.0.0, and v2.5.0.1.0 to v2.5.0.1.1.

> **Note**: If you have a version prior to 2.2.0.3.0, you must install 2.2.0.3.0 before upgrading to 2.5.0.1.1.
>
> If you have v2.3.0.0.0 installed, you must install v2.3.0.2.0 before upgrading to v2.5.0.1.1.

This chapter includes:

- Before You Upgrade
- Upgrade Procedure

Before You Upgrade

Review the list of operating system, application server and database server combinations that Oracle Utilities Meter Data Management is certified to operate on. These details are provided 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:

- Upgrading the Database Component
- Upgrading the Application Components

Upgrading the Database Component

Make sure that the Oracle Utilities Meter Data Management database component is upgraded before upgrading the application components.

Refer to the **Upgrade Install** chapter in *Oracle Utilities Meter Data Management Database Administrator's Guide* for instructions to upgrade the database component.

Upgrading the Application Components

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