Oracle Utilities Analytics

Quick Installation Guide

Release 2.7.0.2.0

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Oracle Utilities Analytics Quick Installation Guide, Release 2.7.0.2.0

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Preface

Welcome to the Oracle Utilities Analytics Quick Install Guide.

This guide provides a high-level overview about installing and configuring Oracle Utilities Analytics.

Important! Going forward Oracle Utilities Analytics will be known as **Oracle Utilities Analytics Warehouse**.

The preface includes the following:

- Audience
- Prerequisite Knowledge
- Related Documents
- Conventions
- Acronyms
- Documentation Accessibility

Audience

This guide is intended for anyone interested in the process of installing or upgrading Oracle Utilities Analytics.

Prerequisite Knowledge

Oracle Utilities Analytics uses several technologies. It is assumed that you have a working knowledge of the following to install and configure Oracle Utilities Analytics.

- Oracle Data Warehouse

  https://docs.oracle.com/en/database/oracle/oracle-database/18/dwhsg/index.html

- Oracle GoldenGate

  https://docs.oracle.com/en/middleware/goldengate/core/19.1/index.html

- Oracle Data Integrator

  https://docs.oracle.com/en/middleware/fusion-middleware/data-integrator/12.2.1.4/index.html

- Oracle GoldenGate Monitor

  https://docs.oracle.com/goldengate/m12212/gg-monitor/index.html

- Oracle WebLogic Server

  https://docs.oracle.com/en/middleware/fusion-middleware/weblogic-server/12.2.1.4/index.html

- Oracle Analytics Server

  https://www.oracle.com/in/business-analytics/analytics-server.html

Related Documents

Refer to the Oracle Utilities Analytics Warehouse Installation and Configuration Checklist for high-level steps to install and configure the Oracle Utilities Analytics product.

The following documentation is included in this release.

Installation, Administration, and Release Notes

- *Oracle Utilities Analytics Release Notes*
- *Oracle Utilities Analytics Getting Started Guide*
- *Oracle Utilities Analytics License Information User Manual*
- *Oracle Utilities Analytics Installation Guide*
- *Oracle Utilities Analytics Quick Install Guide*
- *Oracle Utilities Analytics Administration Guide*
- *Oracle Utilities Analytics Developer's Guide*

Metric Reference Guides

- *Oracle Utilities Analytics Dashboards for Oracle Utilities Meter Data Analytics Metric Reference Guide*
- *Oracle Utilities Analytics Dashboards for Oracle Utilities Customer Analytics, Revenue Analytics and Credit & Collections Analytics Metric Reference Guide*
- *Oracle Utilities Analytics Dashboards for Oracle Utilities Exception Analytics Metric Reference Guide*

- *Oracle Utilities Analytics Dashboards for Oracle Utilities Mobile Workforce Analytics Metric Reference Guide*
- *Oracle Utilities Analytics Dashboards for Oracle Utilities Distribution Analytics and Outage Analytics Metric Reference Guide*
- *Oracle Utilities Analytics Dashboards for Oracle Utilities Work and Asset Analytics Metric Reference Guide*
- *Oracle Utilities Analytics Dashboards for Oracle Utilities Operational Device Analytics Metric Reference Guide*

Data Mapping Guides

- *Oracle Utilities Extractors and Schema for Oracle Utilities Customer Care and Billing Data Mapping Guide*
- *Oracle Utilities Extractors and Schema for Oracle Utilities Meter Data Management Data Mapping Guide*
- *Oracle Utilities Extractors and Schema for Oracle Utilities Mobile Workforce Management Data Mapping Guide*
- *Oracle Utilities Extractors and Schema for Oracle Utilities Network Management System Data Mapping Guide*
- *Oracle Utilities Extractors and Schema for Oracle Utilities Work and Asset Management Data Mapping Guide*
- *Oracle Utilities Extractors and Schema Data Mapping Guide for Operational Device Management Data Mapping Guide*

You can view the latest documentation at:
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 terms are used in this document:

Convention	Meaning
APEX	Oracle Application Express
CDC	Changed Data Capture
ELT	Extraction, Loading and Transformation
ETL	Extraction, Transformation, and Loading

Convention	Meaning
OAS	Oracle Analytics Server
ODI	Oracle Data Integrator
OGG	Oracle GoldenGate
OUA	Oracle Utilities Analytics
WAM	Oracle Utilities Work and Asset Management
CCB	Oracle Utilities Customer Care and Billing
MDM	Oracle Utilities Meter Data Management
MWM	Oracle Utilities Mobile Workforce Management
NMS	Oracle Utilities Network Management System
ODM	Oracle Utilities Operational Device Management
OSDC	Oracle Software Delivery Cloud

Documentation Accessibility

For information about configuring and using accessibility features for Oracle Utilities Analytics, see the documentation at http://docs.oracle.com/cd/E23943_01/bi.1111/e10544/appaccess.htm#BIEUG2756.

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/us/corporate/accessibility/index.html.

Access to Oracle Support

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

Chapter 1

Introduction

This chapter provides an overview of the Oracle Utilities Analytics product and installation process. It focuses on the following:

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

Note that the information in this document is applicable to Oracle Utilities Analytics v2.7.0.2.0 and v2.7.0.2.1.

Installation Overview

Oracle Utilities Analytics v2.7.0.2 is a complete installation and does not need to install any of the previous versions.

Installation Components

The Oracle Utilities Analytics installation includes installing the following components. For a successful installation, it is required to install ALL of these components:

- Oracle Utilities Analytics Database - Contains star schemas and product metadata.
- Oracle Utilities Analytics ELT - Based on Oracle Data Integrator (ODI), it includes pre-built ODI objects necessary for ELT processes.

  Note: Oracle GoldenGate (OGG) is used to capture the data and is required for ODI-based ELT.
- Oracle Utilities Analytics Administration - An Oracle Application Express (APEX) application used to maintain several Oracle Utilities Analytics configuration parameters.
- Oracle Utilities Analytics Dashboard - Includes the pre-built Oracle Analytics Server Web Catalog, RPD file, and answers, based on Oracle Analytics Server.

Installation Types

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

- Initial Installation - A base installation, typically used for a production environment.
- Upgrade - An upgrade installation from:
  - v2.7.0.0.13 to v2.7.0.2.0
  - v2.7.0.1.3 to v2.7.0.2.0
  - v2.6.0.0.10 to v2.7.0.2.0
- Demo Installation - A base installation with pre-populated demo data, typically used for demonstration or training purposes.

The following sections describe these installation types in detail.

Initial Installation

This type is applicable for a new Oracle Utilities Analytics installation. For an initial installation, you must install all of the following components:

- Oracle Utilities Analytics Database
- Oracle Utilities Analytics ELT
- Oracle Utilities Analytics Administration
- Oracle Utilities Analytics Dashboard

Following is a high-level workflow of the installation process:

- **Step 1**: Install the database components.
  - Oracle Database
  - WebLogic
  - Oracle Data Integrator with JavaEE

    - Oracle Utilities Analytics Database
    - Oracle Utilities Analytics Administration
    - Oracle Utilities Analytics ODI-Based ELT
- **Step 2**: Install the dashboard components.
    - Oracle Client
    - Oracle Analytics Server
    - Oracle Utilities Analytics Dashboard

Refer to the *Oracle Utilities Analytics Installation Guide* for the prerequisite software required to install each of the components and the respective component installation steps.

Upgrade

This installation type is applicable while upgrading Oracle Utilities Analytics from the following upgrade paths:

- v2.7.0.0.13 to v2.7.0.2.0
- v2.7.0.1.3 to v2.7.0.2.0
- v2.6.0.0.10 to v2.7.0.2.0

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

- Oracle Utilities Analytics Database
- Oracle Utilities Analytics ELT
- Oracle Utilities Analytics Administration
- Oracle Utilities Analytics Dashboard

Following is a high-level workflow of the upgrade process:

- **Step 1**: Upgrade the database components in the order below:
    - Oracle Database
    - Oracle Utilities Analytics Database
    - Oracle Utilities Analytics Administration
    - Oracle Utilities Analytics ODI-Based ELT
- **Step 2**: Install/upgrade the dashboard components as below:
    - Oracle Client
    - Oracle Analytics Server
    - Oracle Utilities Analytics Dashboard

Refer to the *Oracle Utilities Analytics Installation Guide* for the prerequisite software required to install each of the components and the respective installation steps.

Demo Installation

This installation type is applicable when installing a database component for Oracle Utilities Analytics Dashboards for demonstration or training purposes. For a demo installation, install the following components:

- Oracle Utilities Analytics Demo Database
- Oracle Utilities Analytics Dashboard

Following is a high-level workflow of the demo installation process:

- **Step 1**: Install the database components in the order below:
  - Oracle Database
  - Import demo data
- **Step 2**: Install the dashboard components as below:
  - Oracle Client
  - Oracle Analytics Server
  - Oracle Utilities Analytics Dashboard

Refer to the *Oracle Utilities Analytics Installation Guide* for the prerequisite software required to install each of the components and the respective component installation steps.

Media Pack Components

The Oracle Utilities Analytics Media Pack consists of the following packages:

Documentation Package

- Oracle Utilities Analytics Release Notes
- Oracle Utilities Analytics Quick Install Guide
- Oracle Utilities Analytics Installation Guide
- Oracle Utilities Analytics Administration Guide
- Oracle Utilities Analytics Developer's Guide
- Oracle Utilities Analytics License Information User Manual
- Oracle Utilities Analytics Dashboards for Customer Analytics, Revenue Analytics, and Credit & Collections Analytics Metric Reference Guide
- Oracle Utilities Analytics Dashboards for Exception Analytics Metric Reference Guide
- Oracle Utilities Analytics Dashboards for Mobile Workforce Analytics Metric Reference Guide
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- Oracle Utilities Extractors and Schema for Oracle Utilities Operational Device Management Data Mapping Guide
- Oracle Utilities Extractors and Schema for Oracle Utilities Work & Asset Management Data Mapping Guide

Installation Package

- Oracle Utilities Analytics v2.7.0.2.0 Dashboard Component Multiplatform
- Oracle Utilities Analytics v2.7.0.2.0 ELT Component Based on ODI Multiplatform
- Oracle Utilities Analytics v2.7.0.2.0 Oracle Database Multiplatform
- Oracle Utilities Analytics v2.7.0.2.0 Demo Data

Chapter 2

Supported Platforms and Hardware Requirements

This chapter includes the following details:

- Operating Systems and Application Servers
- Support for Software Patches and Upgrades
- Additional Notes on the Supported Platforms

Operating Systems and Application Servers

An Oracle Utilities Analytics installation is tested and supported on a wide variety of operating system, application server, and database server combinations. The following table provides the details of the minimum versions supported.

On the server side:

Operating System (Server)	FMW Application Server	JDK	Oracle Database	Oracle Analytics Server	Oracle Data Integrator (ODI)	Apex	Oracle Golden Gate	Oracle GoldenGate Monitor Agent	Oracle REST Data Service
Oracle Linux 7.x (64-bit)	WebLogic 12.2.1.4	1.8.0_251+	19.7	5.5	12.2.1.4 Patch 31510501	20.1	19.1	12.2.1.2 Patch 26982776.	19.2

On the client side:

Client Operating System	Browser
Windows 10 (64-bit)	Microsoft Edge 87.0.664.47
	Firefox 78.5.0
	Google Chrome 87.0.4280.66

Important: For the latest system requirements and supported platforms details, refer to the knowledge article **Certification Matrix for Oracle Utilities Products (Doc ID 1454143.1)** available on My Oracle Support (https://support.oracle.com/).

Note that it is possible to install multiple Fusion Middleware products (ODI, OAS, etc.) in the same Home. In this scenario, Fusion Middleware Infrastructure is installed only once, and the Home is reused while installing other Fusion Middleware products.

Support for Software Patches and Upgrades

Due to the ongoing nature of software improvement, vendors 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, it is recommended to do so in a test environment that is running on the same platform as your production environment prior to updating the production environment itself.

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

Additional Notes on the Supported Platforms

Oracle Unbreakable Enterprise Kernel - This Oracle Utilities Analytics release is supported on Oracle Unbreakable Enterprise Kernel.

Oracle VM Support - This Oracle Utilities Analytics release is supported on Oracle VM Server for x86 3.3 for the supported releases of Oracle Linux operating system.

Oracle Support Policy on VMWare - Refer to My Oracle Support knowledge base article 249212.1 for Oracle's support policy on VMWare (https://support.oracle.com).

Chapter 3

Planning the Installation

This chapter provides information to plan an Oracle Utilities Analytics installation, including:

- Prerequisite Software
- Supported Source Application Versions
- Deployment
- Installation Checklist

Prerequisite Software

Before you install Oracle Utilities Analytics, you are required to install the prerequisite software.

Refer to the respective installation documentation of the software for download and installation instructions.

Supported Source Application Versions

The following source application versions are supported in this Oracle Utilities Analytics release:

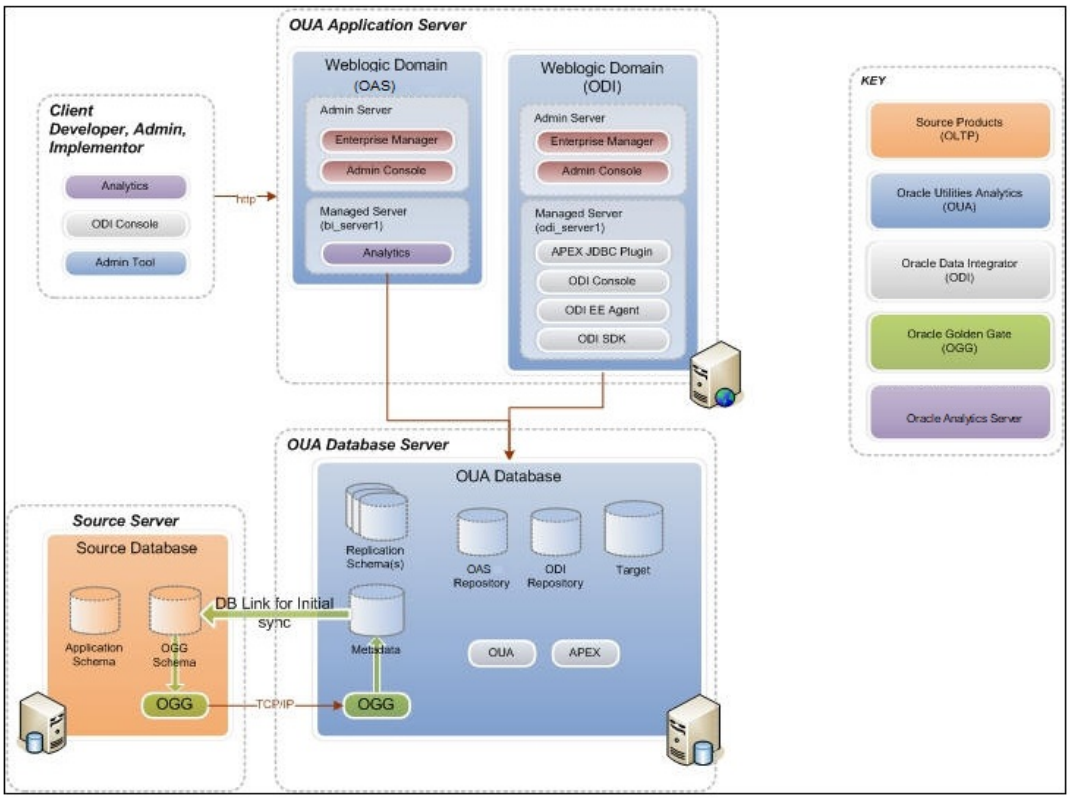
Source Application	Version
Oracle Utilities Customer Care and Billing	2.5.0.2 2.6.0.0 2.7.0.0 2.7.0.1 2.7.0.3 2.8.0.0
Oracle Utilities Customer To Meter	2.6.0.0 2.7.0.0 2.7.0.1 2.7.0.3 2.8.0.0
Oracle Utilities Meter Data Management	2.2.0.0 2.2.0.1 2.2.0.2 2.2.0.3 2.3.0.2 2.4.0.0
Oracle Utilities Mobile Workforce Management	2.2.0.x 2.3.0.3
Oracle Utilities Work and Asset Management	2.1.1.0 2.2.0.0 2.2.0.2 2.2.0.6 2.3.0.0
Oracle Utilities Operational Device Management	2.1.1.0 2.2.0.0 2.2.0.2 2.2.0.6 2.3.0.0
Oracle Utilities Network Management System	2.4.0.0 2.4.0.1 2.5.0.0 2.5.0.1

Note: For latest edge application version details, refer to the knowledge article **Certification Matrix for Oracle Utilities Products (Doc ID 1454143.1)** available on My Oracle Support (https://support.oracle.com/).

Deployment

A standard Oracle Utilities Analytics deployment consists of a database and an application server. ODI, OAS and WebLogic installation for Oracle Utilities Analytics Administration are performed on the application server. Oracle GoldenGate is installed on both source, as well as target database servers.

The following figure shows a standard Oracle Utilities Analytics deployment.



Installation Checklist

The following checklist guides you through the Oracle Utilities Analytics installation process. The details for each step are provided in respective subsequent chapters.

1. Confirm that the recommended hardware is ready. Refer to Chapter 2: Supported Platforms and Hardware Requirements for details.
2. Install prerequisite software. Refer to the Chapter 3: Prerequisite Software for more details.
3. Determine the installation type. Refer to the Installation Types section in Chapter 1: Introduction to determine the installation type for your scenario.
4. Make sure that you have downloaded the Oracle Utilities Analytics v2.7.0.2.0 components.
5. Perform the installation steps as applicable to the installation type.
6. Configure Oracle Utilities Analytics.

   Note: Oracle Warehouse Builder based ETL is used for Oracle Utilities Work and Asset Management source application. If you are planning to use Oracle Utilities Work and Asset Management as a source application, contact Oracle Support personnel for detailed instructions on the installation process.

Chapter 4

Installing Oracle Utilities Analytics - Initial Installation

This chapter provides instructions for a new Oracle Utilities Analytics installation. It includes:

- Before You Install
- Initial Installation Procedure

Before You Install

Refer to My Oracle Support for up-to-date information about this Oracle Utilities Analytics release.

Initial Installation Procedure

The initial installation procedure consists of installing the following:

- Oracle Utilities Analytics Database
- Oracle Data Integrator Based ELT Component
- Oracle Utilities Analytics Administration Component
- Oracle Utilities Analytics Dashboards Component

For detailed installation instructions, refer to the *Oracle Utilities Analytics Installation Guide*.

Chapter 5

Upgrading Oracle Utilities Analytics

Oracle Utilities Analytics v2.7.0.2.0 release supports the following upgrade paths:

- v2.7.0.0.13 to v2.7.0.2.0
- v2.7.0.1.3 to v2.7.0.2.0
- v2.6.0.0.10 to v2.7.0.2.0

To upgrade to Oracle Utilities Analytics v2.7.0.2.0, you must first upgrade to Oracle Utilities Analytics v2.7.0.0.13 if on an earlier version. Make sure all pre-requisites (JDK and ODI) are met before beginning the upgrade process.

For detailed instructions refer to the *Oracle Utilities Analytics Installation Guide*.

Chapter 6

Installing Demo Database

This chapter provides instructions to install the demo database, including installing the following components:

- Oracle Utilities Analytics Demo Database
- Oracle Utilities Analytics Dashboards

Oracle Utilities Analytics Demo Database Component

A fresh Oracle database needs to be created, followed by a demo dump import.

For instructions to install the demo database, refer to the *Oracle Utilities Analytics Installation Guide.*

Oracle Utilities Analytics Dashboard Component

After installing the Oracle Utilities Analytics demo database component, install the Oracle Utilities Analytics dashboard component. It is assumed that Oracle Analytics Server is installed and available before proceeding with this installation step. The installation steps for the dashboard component are the same as that for an initial install.

For instructions to install the demo database, refer to the *Oracle Utilities Analytics Installation Guide.*