Oracle Utilities Advanced Spatial and Operational Analytics

Quick Install Guide

Release 2.4.1

E40762-01

May 2013

ORACLE

Oracle Utilities Advanced Spatial and Operational Analytics Quick Install Guide, Release 2.4.1

E40762-01

Contents

Chapter 6

Chapter 7

Appendix A

Preface

This guide provides an overview for installing Oracle Utilities Advanced Spatial and Operational Analytics version 2.4.1. The following topics are included:

- **Audience**
- **Related Documents**
- **Typographical Conventions**
- **Acronyms**

Audience

This guide is intended for anyone interested in understanding or performing the process of installing or configuring Oracle Utilities Advanced Spatial and Operational Analytics v2.4.1.

Prerequisite Knowledge

OUASA requires a few other software products for it to function. The person using this guide should have some experience of working on or installing the following products:

- Oracle Database Server
- Oracle Business Intelligence Enterprise Edition
- Oracle Warehouse Builder
- Oracle Data Integrator

Related Documents

For details, refer to the following documents in the Oracle Utilities Advanced Spatial and Operational Analytics Documentation Library:

- *Oracle Utilities Advanced Spatial and Operational Analytics Release Notes*
- *Oracle Utilities Advanced Spatial and Operational Analytics Quick Install Guide*
- *Oracle Utilities Advanced Spatial and Operational Analytics Administration Guide*
- *Oracle Utilities Advanced Spatial and Operational Analytics User's Guide*
- *Data Mapping Guide for Oracle Utilities Meter Data Management Extractors and Schema*
- *Data Mapping Guide for Oracle Utilities Mobile Workforce Management Extractors and Schema*
- *Data Mapping Guide for Oracle Utilities Work and Asset Management Extractors and Schema*

- *Data Mapping Guide for Oracle Utilities Network Management System Extractors and Schema*
- *Data Mapping Guide for Oracle Utilities Customer Care and Billing Extractors and Schema*
- *Data Mapping Guide for Oracle Utilities Operational Device Management Extractors and Schema*
- *Metrics Reference Guide for Oracle Utilities Meter Data Analytics*
- *Metrics Reference Guide for Oracle Utilities Work and Asset Analytics*
- *Metrics Reference Guide for Oracle Utilities Customer Analytics, Oracle Utilities Revenue Analytics, Oracle Utilities Credit & Collections Analytics*
- *Metrics Reference Guide for Oracle Utilities Mobile Workforce Analytics*
- *Metrics Reference Guide for Oracle Utilities Exception Analytics*
- *Metrics Reference Guide for Oracle Utilities Distribution Analytics, Oracle Utilities Outage Analytics*
- *Metrics Reference Guide for Oracle Utilities Operational Device Analytics*

Typographical 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 list of Acronyms used in this guide are as explained below:

- **OUASA**: Oracle Utilities Advanced Spatial and Operational Analytics
- **OBIEE**: Oracle Business Intelligence Enterprise Edition
- **ODI**: Oracle Data Integrator
- **OWB**: Oracle Warehouse Builder
- **CC&B**: Oracle Utilities Customer Care and Billing
- **NMS**: Oracle Utilities Network Management System
- **ODM**: Oracle Utilities Operational Device Management
- **WAM**: Oracle Utilities Work and Asset Management
- **MWM**: Oracle Utilities Mobile Workforce Management
- **MDM**: Oracle Utilities Meter Data Management
- **ETL**: Extraction, Transformation, and Loading
- **GG**: Oracle Golden Gate

Chapter 1

About Oracle Utilities Advanced Spatial and Operational Analytics

Oracle Utilities Advanced Spatial and Operational Analytics (OUASA) version 2.4.1 Installation consists of the following components:

- Star schema definitions
- ETL process built on Oracle Data Integrator (ODI).
  Note that in this release of OUASA v2.4.1, ODI is only supported for Oracle Utilities Operational Device Management (ODM) source Application.
- ETL process built on Oracle Warehouse Builder (OWB)
- Pre-built analytics' dashboards based on Oracle Business Intelligence Enterprise Edition (OBIEE)
- Admin Tool Installation (only for ODI configuration')

Note that the term OUASA would typically refer to the five components mentioned in the above list. Only these five components are required for a typical installation. This document provides information about these components which are commonly required by most of the customers.

What's New in Oracle Utilities Advanced Spatial and Operational Analytics v2.4.1

Oracle Utilities Advanced Spatial and Operational Analytics v2.4.1 has the following new features:

- Oracle Utilities Operational Device Extractor and Schema
- Oracle Utilities Operational Device Analytics
- ETL component based on Oracle Data Integrator (ODI)

Architectural Changes

The architectural changes are as follows:

- A new Administration Tool based on Application Express feature of the Oracle Database is introduced to configure ODI and Golden Gate.
- New Oracle Data Integrator (ODI) based ELT has been added for Oracle Utilities Operational Device Management (ODM) source application.

Schema Changes

The schema changes are as follows:

- A new group of dashboards grouped under Oracle Utilities Operational Device Analytics has been added. This group provides reporting metrics on the Oracle Utilities Operational Device Management (ODM) application.

Extract-Transform-Load Changes

OUASA v2.4.1 marks the beginning of transition from Oracle Warehouse Builder (OWB) based ETL to Oracle Data Integrator (ODI) based ELT. This release introduces new ODI based ELT for Oracle Utilities Operational Device Management (ODM). Most of the existing ETLs will be moved out to ODI in a phased manner in upcoming OUASA releases.

Installation Changes

The modifications during the installation process are listed as follows:

- Automated Deployments for ETL Component based on ODI is done using ODI - SDK code, which is written in java and scripts developed around them.

Chapter 2

Oracle Utilities Advanced Spatial and Operational Analytics Installation Overview

Installation of Oracle Utilities Advanced Spatial and Operational Analytics (OUASA) version 2.4.1 consists of several components, each of which needs to be installed for a successful installation. See **Installation Components** for the list of components comprising the Oracle Utilities Advanced Spatial and Operational Analytics product.

Certain prerequisite softwares may need to be installed for installing each of these components. See **Prerequisite Software** for the list of prerequisite software necessary for installing each component.

Oracle Utilities Advanced Spatial and Operational Analytics product supports the following source applications:

- Oracle Utilities Customer Care and Billing version 2.2.0 or 2.3.1 or 2.4.0
- Oracle Utilities Meter Data Management version 2.0.1, Service Pack 8 (2.0.1.8) + Single fix patch # 14741869 + Single fix patch # 15983267 + Framework patch 14741833
- Oracle Utilities Mobile Workforce Management version 2.1.0 Service Pack 4 (2.1.0.4) +Single Fix patch # 14791886 + Framework patch 14741833
- Oracle Utilities Network Management System version 1.9.0.3, 1.10.0.3.1, or 1.11.0.1
- Oracle Utilities Work and Asset Management version 1.9.0.4
- Oracle Utilities Operational Device Management 2.0.1.1

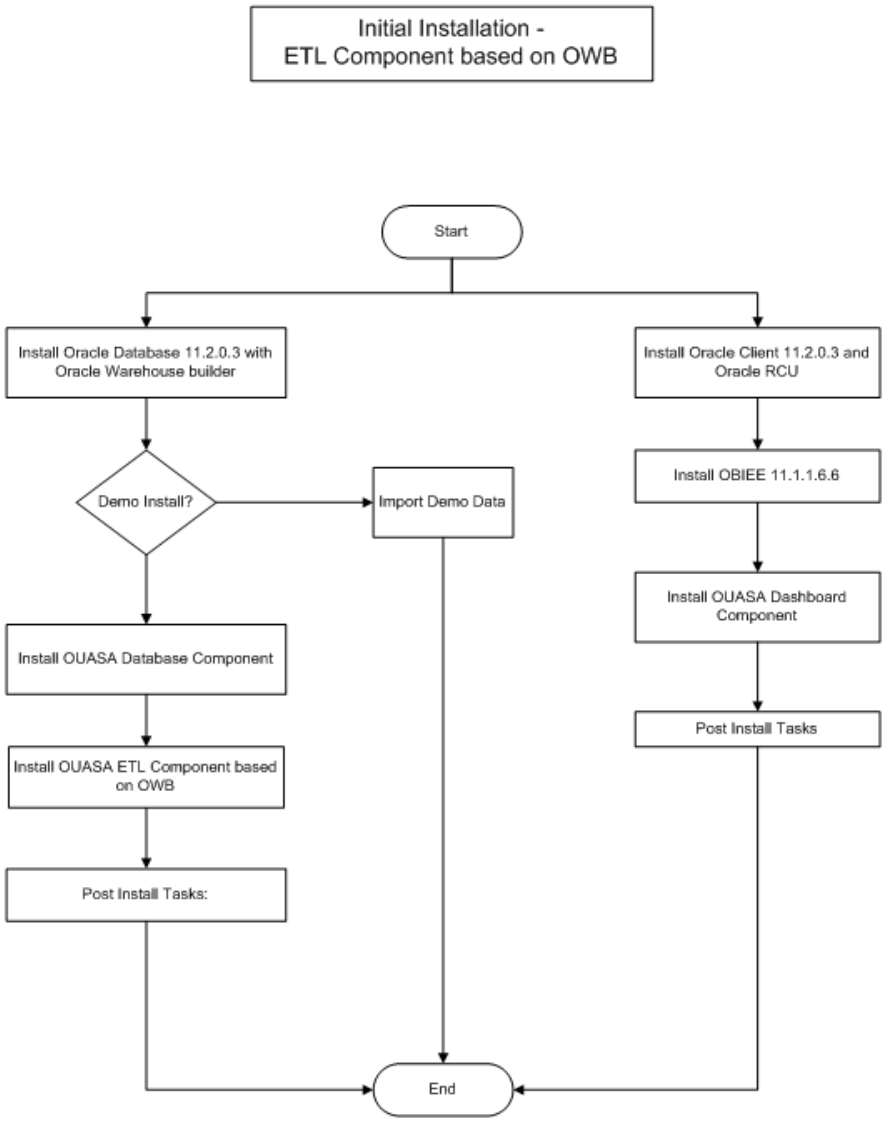
The following Installation Scenarios are discussed with respective Flow Chart diagrams:

- **Installation Scenario 1**, where Oracle Utilities Operational Device Management (ODM) is not one of the Source Applications and initial installation is for ETL Component based on OWB. and initial installation is for ETL Component based on OWB. Refer to **Installation Scenario 1** flow chart for details.
- **Installation Scenario 2**, where the Source Application is Oracle Utilities Operational Device Management. Refer to **Installation Scenario 2** flow chart for details.
- **Installation Scenario 3**, where Oracle Utilities Operational Device Management is one of the source applications and customer along with this also has one or more other edge applications like MDM, MWM etc. installed as sources. Refer to **Installation Scenario 3** for details.
- **Installation Scenario 4** for Upgrade Customers who are upgrading to Oracle Utilities Advanced Spatial and Operational Analytics version 2.4.1 from an earlier released version. Refer to the **Installation Scenario 4** flow chart for details.

Installation Scenario 1

Installation Scenario 1, where Oracle Utilities Operational Device Management (ODM) is not one of the Source Applications and initial installation is for ETL Component based on OWB.

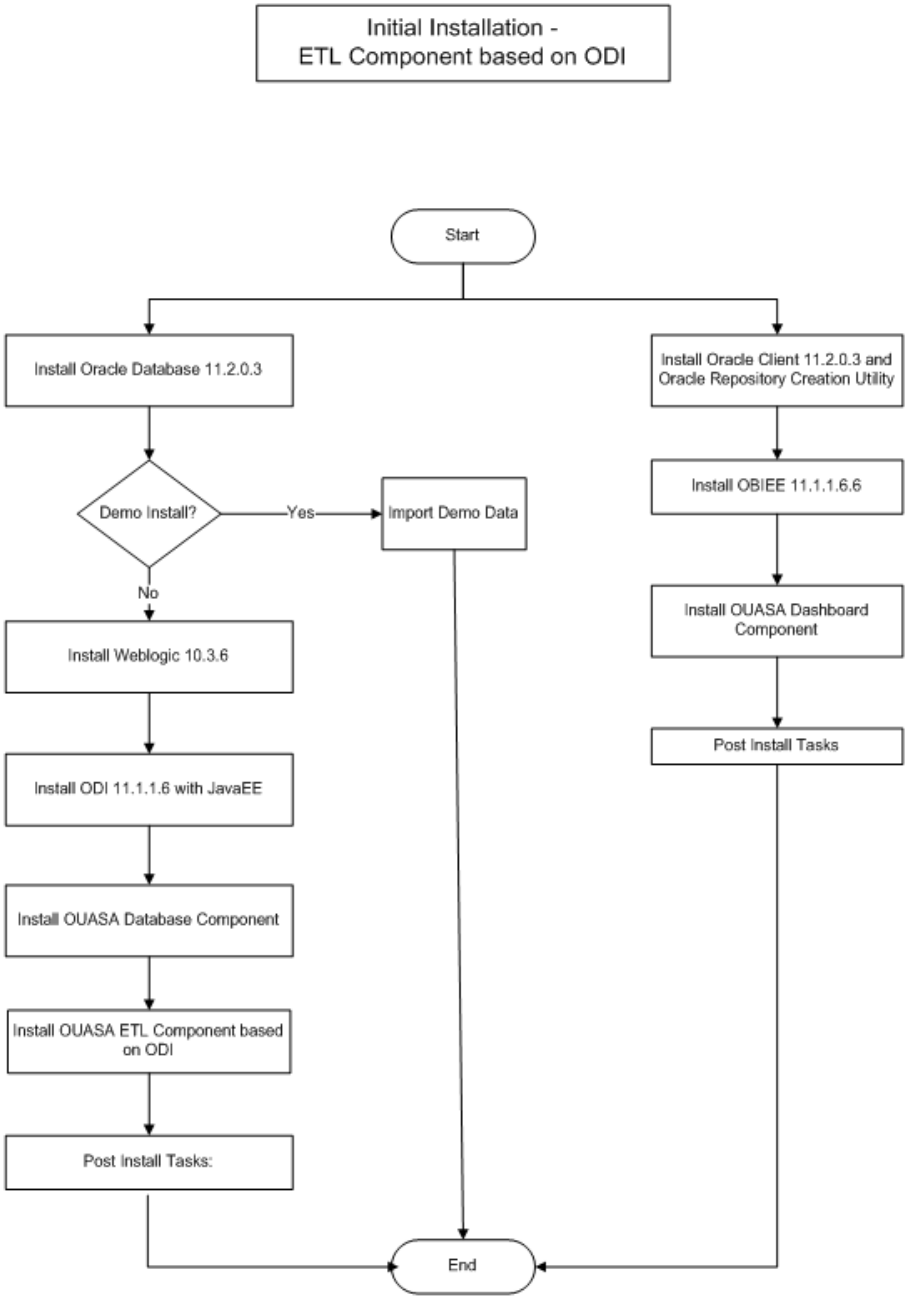
The following figure shows the workflow for the initial installation for ETL Componente based on OWB (applicable when the customer is installing extractor and schema for products other than ODM):



Installation Scenario 2

Source Application is Oracle Utilities Operational Device Management (ODM) for ETL Component based on ODI. This installation is applicable only if customer is installing Oracle Utilities Operational Device Extractor and Schema.

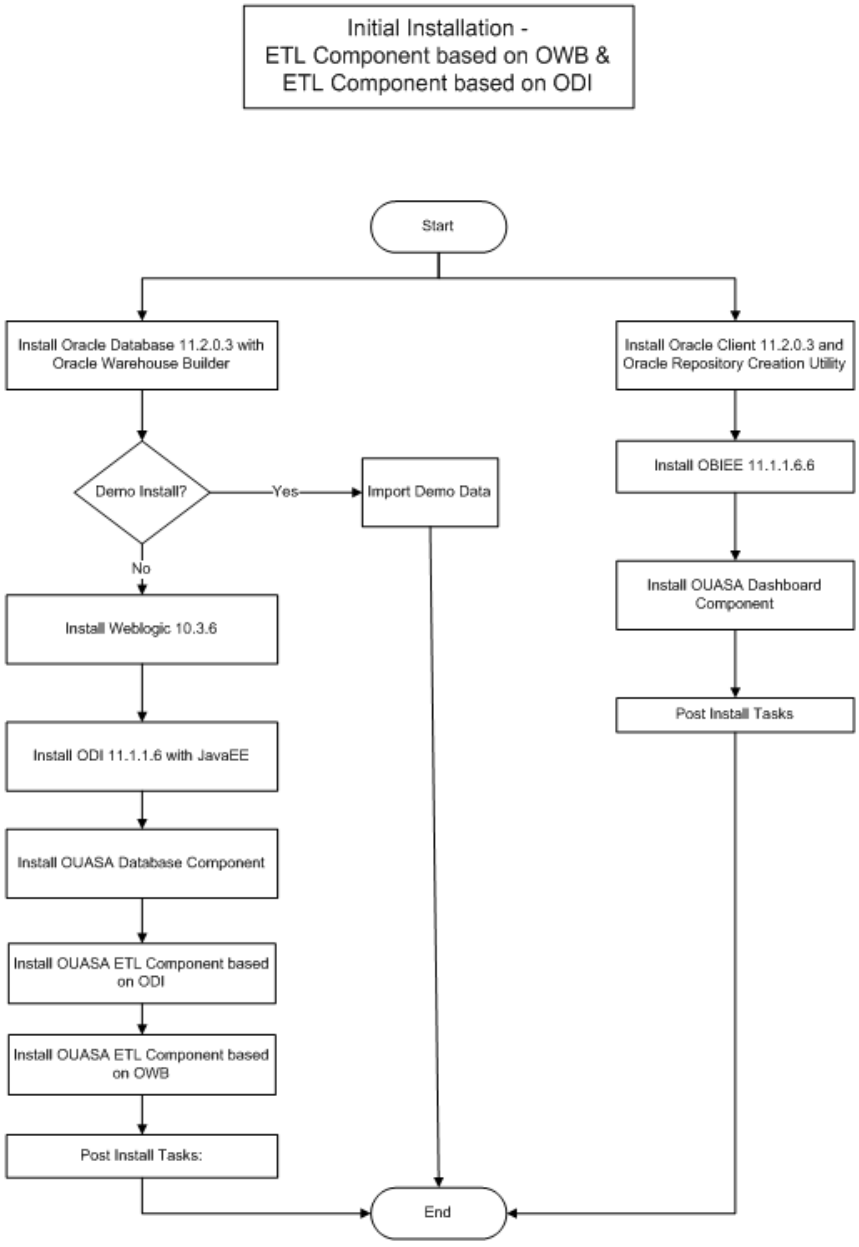
The following figure shows the workflow for the initial installation process:



Installation Scenario 3

Oracle Utilities Operational Device Management (ODM) is one of the source applications and customer also has one or more other edge applications (like MDM, MWM etc.) as sources. This initial installation is for customers who are using both ETL component based on OWB and ETL component based on ODI.

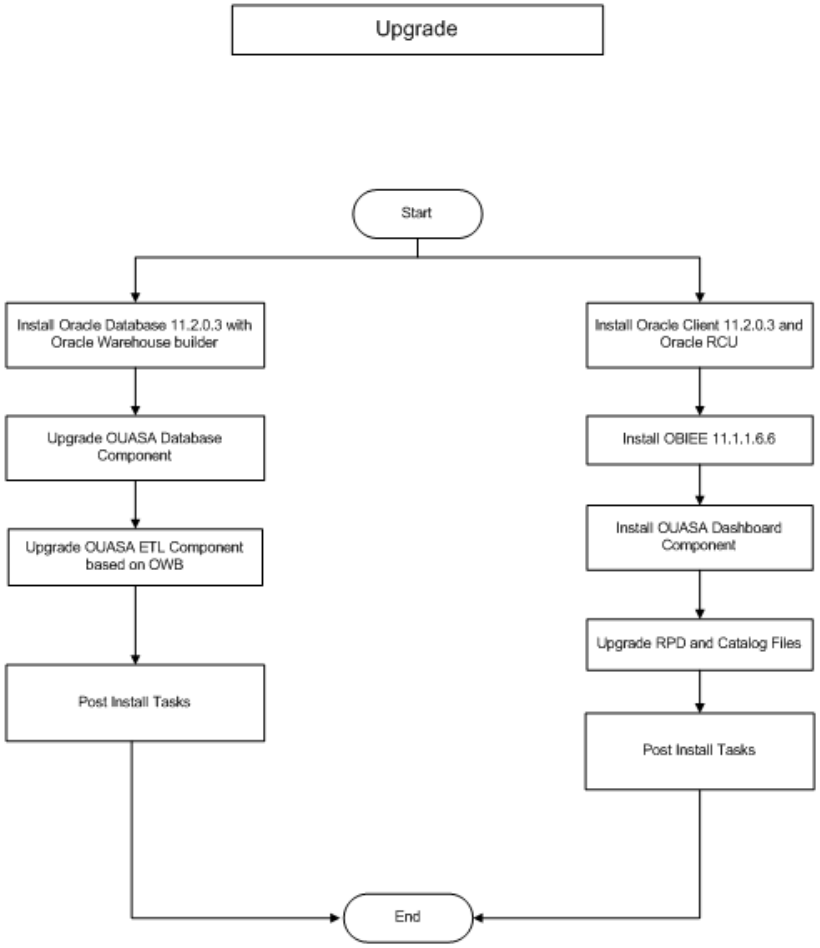
The following figure shows the workflow for the initial installation:



Installation Scenario 4

This installation type is for upgrade customers who are upgrading from an earlier version of OUASA to OUASA v2.4.1.

The following figure shows the workflow for the Upgrade Process



Installation Components

The Oracle Utilities Advanced Spatial and Operational Analytics version 2.4.1 product installation consists of the following installable components.

Note that each of the components listed below has to be installed to complete the Oracle Utilities Advanced Spatial and Operational Analytics installation.

- OUASA Database component containing star schemas and product metadata
- OUASA ETL Component based on Oracle Data Integrator (ODI).
  Note that the OUASA ETL component based on ODI should be installed on a database server. This installation is required only if you are installing Oracle Utilities Operational Device Extractor and Schema
- OUASA ETL workflows based on Oracle Warehouse Builder (OWB)
  Note that the OUASA ETL component should be installed on a database server. This is optional if you are installing only the Oracle Utilities Operational Device Extractor and Schema.
- OUASA Dashboards components and answers based on Oracle Business Intelligence Enterprise Edition (OBIEE)

  Note that the OUASA Dashboard components should be installed where OBIEE is installed on the server.
- OUASA Admin Tool Component Installation

Oracle Utilities Advanced Spatial and Operational Analytics also includes the demo database with pre-populated data that can be used for training or demonstration purposes. Refer to **Installing Demo Database** for details.

Installation Types

The first step in the installation procedure is to determine the installation type based on the customer installation scenario. The following are the possible installation types:

- **Initial Installation**, an installation from scratch
- **Upgrade**, an upgrade from an earlier version to Oracle Utilities Advanced Spatial and Operational Analytics (OUASA) v2.4.1
- **Demo Installation**, an installation with pre-populated demo data

The following describe each of these installations in detail

Initial Installation

This installation type is applicable when installing Oracle Utilities Advanced Spatial and Operational Analytics for the first time or from scratch. Each of the following components should be installed during an initial installation:

- OUASA Database component
- OUASA ETL component based on ODI
  (applicable only if customer is installing Oracle Utilities Operational Device Extractor and Schema)
- OUASA ETL component based on OWB
  (applicable if the customer is installing extractor and schema for products other than ODM)

  Note: If the customer has installed edge applications, say for example, CC&B, NMS, WAM, MWM, or MDM, then, ETL component based on OWB must be installed.

- OUASA Dashboard component
- OUASA Admin Tool Component
  (applicable only if customer is installing Oracle Utilities Operational Device Extractor and Schema)

See chapter **Oracle Utilities Advanced Spatial and Operational Analytics Initial Installation** for the steps involved in installing each of the above components.

Upgrade

This installation type is applicable when upgrading to Oracle Utilities Advanced Spatial and Operational Analytics v2.4.1 from an earlier version.

Refer to the *Oracle Utilities Advanced Spatial and Operational Analytics Guide* to find out whether upgrade of your particular version is supported.

Each of the following components should be installed during an upgrade installation.

- OUASA Database component
- OUASA ETL component based on ODI
  (applicable only if customer is installing Oracle Utilities Operational Device Extractor and Schema)
- OUASA ETL component based on OWB
  (applicable if customer is installing extractor and schema for products other than ODM)
- OUASA Dashboard component
- OUASA Admin Tool Component
  (applicable only if customer is installing Oracle Utilities Operational Device Extractor and Schema)

Refer to chapter **Upgrading Oracle Utilities Advanced Spatial and Operational Analytics** for the steps involved in upgrading each of the above components.

Demo Installation

This installation type is applicable when installing the demo database component of Oracle Utilities Advanced Spatial and Operational Analytics for demonstration or training purposes. The following components should be installed for a demo installation:

- OUASA Demo database component
- OUASA Dashboard components

Refer to chapter **Demo Installation Procedure** for the steps involved in installing each of the above components.

Media Pack Contents

Oracle Utilities Advanced Spatial and Operational Analytics version 2.4.1 Media Pack consists of the following documentation and installation packages:

Documentation

- Oracle Utilities Advanced Spatial and Operational Analytics v2.4.1 Release Notes
- Oracle Utilities Advanced Spatial and Operational Analytics v2.4.1 Quick Install Guide
- Oracle Utilities Advanced Spatial and Operational Analytics v2.4.1 Installation and Configuration Documentation

- Oracle Utilities Advanced Spatial and Operational Analytics v2.4.1 User Documentation
- Oracle Utilities Advanced Spatial and Operational Analytics v2.4.1 Supplemental Documentation

Installation Packages

- Oracle Utilities Advanced Spatial and Operational Analytics V2.4.1 Dashboard Component Multiplatform
- Oracle Utilities Advanced Spatial and Operational Analytics V2.4.1 ETL Component Based on OWB Multiplatform
- Oracle Utilities Advanced Spatial and Operational Analytics V2.4.1 ETL Component Based on ODI Multiplatform
- Oracle Utilities Advanced Spatial and Operational Analytics V2.4.1 Oracle Database Multiplatform
- Oracle Utilities Advanced Spatial and Operational Analytics V2.4.1 Demo Data

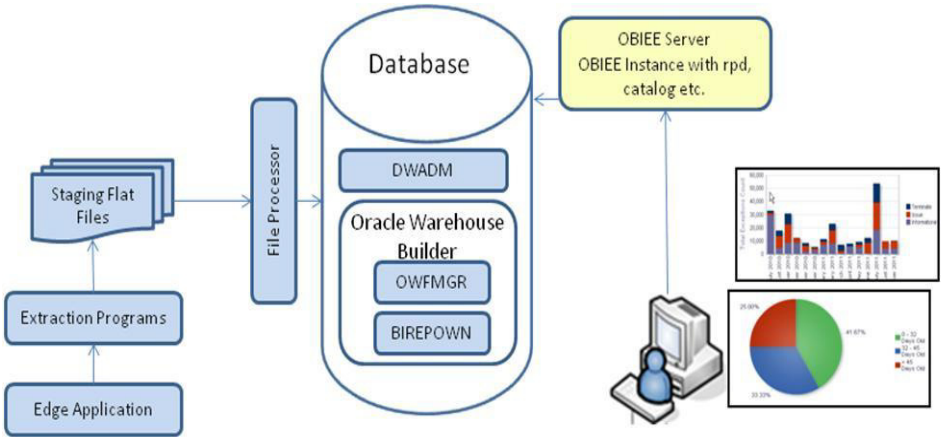
Supported Source Application Versions

The following are the supported source application versions:

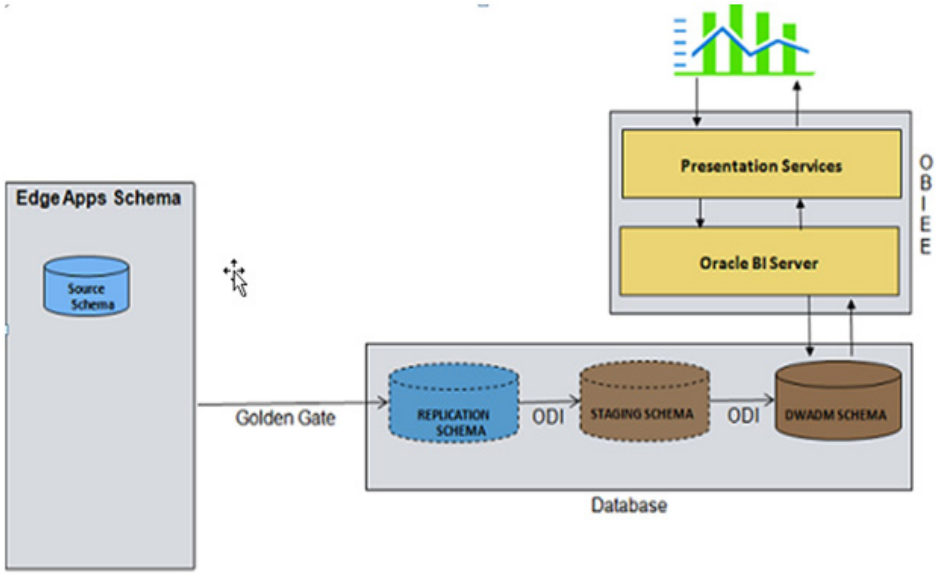
Source Application	Version
Oracle Utilities Customer Care & Billing	2.2.0 2.3.1 2.4.0
Oracle Utilities Network Management System	1.9.0.3 1.10.0.3.1 1.11.0.1
Oracle Utilities Work & Asset Management	1.9.0.4
Oracle Utilities Meter Data Management	MDM 2.0.1 Service Pack 8 (2.0.1.8) + Single fix patch # 14741869 + Single fix patch # 15983267 + Framework patch 14741833
Oracle Utilities Mobile Workforce Management	MWM - 2.1.0 Service Pack 4 (2.1.0.4) +Single Fix patch # 14791886 + Framework patch 14741833
Oracle Utilities Operational Device Management (ODM)	2.0.1.1

Architecture

The following figure shows the architecture of the Oracle Utilities Advanced Spatial and Operational Analytics (OUASA) product when using ETL based on Oracle Warehouse Builder (OWB):



The following figure shows the architecture of the Oracle Utilities Advanced Spatial and Operational Analytics (OUASA) product when using ETL based on Oracle Data Integrator (ODI):



Chapter 3

System Requirement and Supported Platforms for OUASA version 2.4.1

Operating Systems and Application Servers

The Oracle Utilities Advanced Spatial and Operational Analytics installation version 2.4.1 is certified to operate on many operating systems, application servers, and database server combinations.

The following table details the browser, operating system, and application server combinations on which Oracle Utilities Advanced Spatial and Operational Analytics version 2.4.1 has been tested and certified:

Browser	Operating System (Client)	Operating System (Server)	Chipset	OBIEE	Oracle Data Integrator (ODI)	Golden Gate	Database
IE 7.x IE 8.x IE 9.x Firefox 10 (ESR)	Windows XP SP3 Windows 7 (64 bit)	AIX 7.1 (64-bit)	Power 64-bit	11.1.1.6.6	11.1.1.6	11.2.1.0.5_2	Oracle 11.2.0.3
		Oracle Linux 6.2 (64-bit) / Red Hat Enterprise Linux 6.2 (64-bit)	x86_64	11.1.1.6.6	11.1.1.6	11.2.1.0.5_2	Oracle 11.2.0.3
		Oracle Solaris 10 Update 9 (64-bit)	SPARC	11.1.1.6.6	11.1.1.6	11.2.1.0.5_2	Oracle 11.2.0.3
		Windows 2008 Server R2	x86_64	11.1.1.6.6	11.1.1.6	11.2.1.0.5_2	Oracle 11.2.0.3

- OBIEE is required for the OUASA dashboard component
- ODI is required for OUASA ETL component based on ODI
- Oracle Golden Gate is required for ODI based ETL component

Note: Oracle Warehouse Builder is installed as part of the Oracle Database Enterprise Edition Server 11.2.0.3.

Additional Notes on Supported Platforms

Following topics are discussed in this section:

- **Oracle's Unbreakable Enterprise Kernel**
- **Oracle Database Server**
- **Oracle VM Support**
- **Oracle Support Policy on VMWare**

Oracle's Unbreakable Enterprise Kernel

Oracle Utilities Advanced Spatial and Operational Analytics version 2.4.1 is supported on Oracle's Unbreakable Enterprise Kernel.

Oracle Database Server

Oracle Utilities Advanced Spatial and Operational Analytics version 2.4.1 is supported on Oracle Database Enterprise Edition Server 11.2.0.3 on any of the operating systems listed above.

Oracle VM Support

Oracle Utilities Advanced Spatial and Operational Analytics version 2.4.1 is supported on Oracle VM 2.2.2 for supported releases of Oracle Linux and Microsoft Windows operating systems.

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 4

Planning the Oracle Utilities Advanced Spatial and Operational Analytics Installation

This chapter provides information for planning an Oracle Utilities Advanced Spatial and Operational Analytics (OUASA) installation version 2.4.1, including:

- **Prerequisite Software**
- **Installation Checklist**

Prerequisite Software

For installing Oracle Utilities Advanced Spatial and Operational Analytics version 2.4.1 few prerequisite software needs to be downloaded and installed. Download and install these software as per the instructions in the respective installation documents.

The following sections list the prerequisite software for each of the product components of Oracle Utilities Advanced Spatial and Operational Analytics:

Ensure that the same Operating System (OS) user is used to installed all the Software components and also corresponding OUASA Components.

- **Prerequisite Software for OUASA Database Component**
- **Prerequisite Software for OUASA ETL Component based on Oracle Data Integrator**
- **Prerequisite Software for OUASA ETL Component based on Oracle Warehouse Builder**
- **Prerequisite Software for OUASA Dashboard Component**
- **Prerequisite Software for OUASA Admin Tool Component**

Prerequisite Software for OUASA Database Component

The prerequisite software for OUASA database component is as follows:

- **Oracle Database Server Enterprise Edition 11.2.0.3**: This is required for installing the database component of the Oracle Utilities Advanced Spatial and Operational Analytics product.

Prerequisite Software for OUASA ETL Component based on Oracle Data Integrator

The prerequisite softwares for OUASA ETL component based on Oracle Data Integrator (ODI) are as follows:

- JDK 1.6.0_20. or above
- Oracle Database Server Enterprise Edition 11.2.0.3
- Oracle Weblogic 10.3.6.
- Oracle Data Integrator 11.1.1.6 with Java EE.
- Oracle Golden Gate 11.2.1.0.5_2. On Source Application Database Server and Target Database Server
  This can be downloaded from My Oracle Support (https://support.oracle.com/)

Prerequisite Software for OUASA ETL Component based on Oracle Warehouse Builder

The prerequisite softwares for OUASA ETL based on Oracle Warehouse Builder (OWB) component are as follows:

- JDK 1.6.0_20 is required for running the File Processor Daemon.
- Oracle Database Server Enterprise Edition 11.2.0.3 with Oracle Warehouse Builder 11.2.0.3.

Prerequisite Software for OUASA Dashboard Component

The prerequisite softwares for OUASA dashboard component are as follows:

- Oracle Business Intelligence Enterprise Edition 11.1.1.6.6 with Enterprise Install Option

Prerequisite Software for OUASA Admin Tool Component

The prerequisite software's for OUASA Admin Tool Component are as follows:

- Oracle Database Server Enterprise Edition 11.2.0.3
- Oracle Apex 4.2

Installation Checklist

The following checklist will guide you through the installation process of Oracle Utilities Advanced Spatial and Operational Analytics version 2.4.1:

For details regarding the steps mentioned below, refer to the *Oracle Utilities Advanced Spatial and Operational Analytics Installation Guide*.

1. Determine the installation type. Refer to to determine the installation type for your scenario. Perform the installation steps as applicable to your installation type.
2. Install prerequisite software.
   See **Prerequisite Software** for more details.
3. Install the following Oracle Utilities Advanced Spatial and Operational Analytics components:
   - OUASA Database component
   - OUASA ETL Component based on ODI (applicable only if the customer has Oracle Utilities Operational Device Management (ODM) installed)
   - OUASA ETL component based on OWB
   - OUASA Dashboard component

Refer to the chapter **Oracle Utilities Advanced Spatial and Operational Analytics Initial Installation** for instructions about fresh or initial installation.

For upgrading from an earlier version of OUASA to OUASA v2.4.1, refer to chapter **Upgrading Oracle Utilities Advanced Spatial and Operational Analytics**.

For Demo Installation Procedure, refer to the **Installing Demo Database** chapter for instructions regarding demo installation.

Perform the post-installation tasks as described in the *Oracle Utilities Advanced Spatial and Operational Analytics Installation Guide* and configure the application.

Refer to the *Oracle Utilities Advanced Spatial and Operational Analytics Installation Guide* for complete details.

Chapter 5

Oracle Utilities Advanced Spatial and Operational Analytics Initial Installation

This chapter describes the components installed during an initial installation of the Oracle Utilities Advanced Spatial and Operational Analytics (OUASA) product version 2.4.1

For complete details, refer to the *Oracle Utilities Advanced Spatial and Operational Analytics Installation Guide*.

The following components are installed during an initial installation:

- OUASA Database component
- OUASA ETL component based on ODI
  (applicable only if customer is installing Oracle Utilities Operational Device Extractor and Schema)
- OUASA ETL component based on OWB
  (applicable if the customer is installing extractor and schema for edge application products other than ODM)

  Note: If the customer has installed edge applications, say for example, CC&B, NMS, WAM, MWM, or MDM, then, ETL component based on OWB must be installed.
- OUASA Dashboard component
- OUASA Admin Tool Component
  (applicable only if customer is installing Oracle Utilities Operational Device Extractor and Schema (ODM)

Refer to the *Oracle Utilities Advanced Spatial and Operational Analytics Installation Guide* for complete details and steps involved in installing each of the above components.

Chapter 6

Upgrading Oracle Utilities Advanced Spatial and Operational Analytics

This chapter provides an overview of upgrading Oracle Utilities Advanced Spatial and Operational Analytics v2.4.1 from an earlier version. For additional installation information, refer to the *Oracle Utilities Advanced Spatial and Operational Analytics Installation Guide.*

Refer to the "Supported Upgrade Paths" section in *Oracle Utilities Advanced Spatial and Operational Analytics Installation Guide* to find out whether the upgrade of your particular product version is supported.

This installation type is applicable when upgrading to Oracle Utilities Advanced Spatial and Operational Analytics v2.4.1 from an earlier version.

Each of the followng components should be upgraded for upgrading to Oracle Utilities Advanced Spatial and Operational Analytics Installation Version 2.4.1.

Each of the following components should be installed during an upgrade installation.

- OUASA Database component
- OUASA ETL component based on ODI
  This is Applicable only if customer is installing the Oracle Utilities Operational Device Extractor and Schema.
- OUASA ETL component based on OWB
  This is Applicable if customer is installing extractor and schema for edge application products other than Oracle Utilities Operational Device Management (ODM).
- OUASA Dashboard component
- OUASA Admin Tool Component
  Applicable only if customer is installing the Oracle Utilities Operational Device Extractor and Schema.

For complete details and upgrade steps, refer to the *Oracle Utilities Advanced Spatial and Operational Analytics Installation Gude.*

Chapter 7

Installing Demo Database

This chapter provides instructions for installing the demo database.

Note: Demo installation does not support ETL functionality. ETL Job control dashboard accesses the OWB tables and demo dump does not have OWB objects; hence, ETL dashboard is not supported in demo installation. This chapter provides an overview of the steps involved in installing a demo database.

- **OUASA Demo Database Component Installation**
- **OUASA Dashboard Component Installation**

OUASA Demo Database Component Installation

A fresh Oracle Database 11.2.0.3 should be created, followed by a demo dump import. Refer to the "Demo Installation Procedure" Chapter in *Oracle Utilities Advanced Spatial and Operational Analytics Installation Guide* that specifies database creation and demo dump import steps.

> **Note**: During demo database import, there may be some warnings related to external table creation if OUASA ETL component setup is not done. These can be ignored since OUASA ETL component setup is not a required step for OUASA demo database component installation.

OUASA Dashboard Component Installation

After installing the OUASA demo database component, install the OUASA dashboard component. It is assumed that Oracle Business Intelligence Enterprise Edition is installed and available before proceeding with this installation step.

Refer to the "Prerequisite Software" section in *Oracle Utilities Advanced Spatial and Operational Analytics Installation Guide* for the list of pre-requisite software necessary for installing the OUASA dashboard component.

The installation steps for the dashboard component are same as that for an initial install. Refer to the "OUASA Dashboard Component Installation" section in *Oracle Utilities Advanced Spatial and Operational Analytics Installation Guide* for the steps to install and deploy the OUASA dashboard component on Oracle Business Intelligence Enterprise Edition.

Appendix A

Additional Resources

Contacting Oracle Support

To contact Oracle support, visit the Oracle Support Web site at:

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

Supported Knowledge Articles

You can also search for product documentation, release notes, and white paper by using the OUBI/OUASA Service Packs Doc ID 1421341.1 number.