

# **Oracle Utilities Advanced Spatial and Operational Analytics**

Release Notes

Release 2.4.1

**E39945-01**

May 2013

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# Preface

This release notes provides an overview of the new functionality and known issues in Oracle Utilities Advanced Spatial and Operational Analytics, Release 2.4.1.

This preface contains the following topics:

- **Audience**
- **Related Documents**
- **Notational Conventions**

## Audience

Oracle Utilities Advanced Spatial and Operational Analytics Release Notes is intended for anyone installing or using Oracle Utilities Advanced Spatial and Operational Analytics version 2.4.1 (OUASA v2.4.1).

## Related Documents

For more information, see the following documents:

- *Oracle Utilities Advanced Spatial and Operational Analytics Quick Install Guide*
- *Oracle Utilities Advanced Spatial and Operational Analytics Installation Guide*
- *Oracle Utilities Advanced Spatial and Operational Analytics Administration Guide*

Oracle Business Intelligence Suite Enterprise Edition Documentation Library, End User Documentation:

- *Oracle Business Intelligence Answers, Delivers, and Interactive Dashboards User Guide*
- *Oracle Business Intelligence Publisher Report Designer's Guide*

## Notational Conventions

The following text conventions are used in this document:

Notation	Indicates
<b>boldface</b>	Graphical user interface elements associated with an action, terms defined in text, or terms defines in the glossary
<i>italic</i>	Book titles, emphasis, or placeholder variables for which you supply particular values

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Notation	Indicates
monospace	Commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter

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# Release Notes

This release notes contains the following sections:

- **What's New in this Release**
- **Known Issues**
- **Supported Upgrades**
- **Supported Upgrades**
- **Supported Source Applications**

# What's New in this Release

This section contains general information about Oracle Utilities Advanced Spatial and Operational Analytics version 2.4.1, including:

- **New Products**
- **New Functionality**
- **Enhancements**

Refer to the *Oracle Utilities Advanced Spatial and Operational Analytics Quick Install Guide* and *Oracle Utilities Advanced Spatial and Operational Analytics Installation Guide* for information about the supported platforms and installation steps.

Please visit My Oracle Support (<http://support.oracle.com>) for the most recent service packs and patches for this release to ensure you have the most current version of this product.

## New Products

This section describes new products in this release of Oracle Utilities Advanced Spatial and Operational Analytics, including:

- **Oracle Utilities Operational Device Analytics Extractors and Schema**
- **Oracle Utilities Operational Device Analytics Dashboards**

### Oracle Utilities Operational Device Analytics Extractors and Schema

Oracle Utilities Operational Device Analytics Extractors and Schema is a collection of pre-built transformation views, schema components, and load packages that can be used to extract, load, and transform data from Oracle Utilities Operational Device Management. This collection comprises pre-configured ELT components, such as ODI objects and transformation views to enable smooth transfer of data from Oracle Utilities Operational Device Management to the data warehouse in Oracle Utilities Advanced Spatial and Operational Analytics.

### Oracle Utilities Operational Device Analytics Dashboards

Oracle Utilities Operational Device Analytics is a comprehensive collection of pre-built OBIEE-based dashboards and answers that help to measure and monitor critical metrics that are related to Oracle Utilities Operational Device Management. This pre-built analytics collection covers critical business areas, such as Warranty Compliance, Inventory Status, Asset Aging, Repair Status, Rejection Rates, etc.

This section describes the dashboards that are included in Oracle Utilities Operational Device Analytics.

#### Overview

The Overview dashboard consists of a collection of answers that provide a high-level view of key metrics related to the operational devices. Users can monitor warranty status, service history type distribution, disposition distribution, and device rejection volumes. Users can also identify the types of devices high on stock, device types installed in the field for longer periods, and type of devices in repair for longer period.

#### Device Attributes

The Device Attributes dashboard helps users to analyze key metrics related to device warranties and the inspections carried out on them. The answers included in this dashboard help users to understand the warranty expiration trend over the next 15 months, inspection history trends, and the top device types and manufacturers with high success rates. A spatial answer has also been included to show the geographical distribution of the various firmware versions. Users also have the option of drilling back to the source Oracle Utilities Operational Device Management application for further details about a specific device or location.

## Installed Devices

The Installed Devices dashboard helps users to analyze key metrics related to the devices installed on the field, such as the average installed age of the devices and the replacement capability for the installed devices. Users can also drill back to the source Oracle Utilities Operational Device Management application for further details about a specific device or location.

## Storeroom Inventory

The Storeroom Inventory dashboard helps users to analyze key metrics related to the devices available in the storerooms. Answers included in this dashboard help users to understand the trends about the inventory stocks, device receipt volume, and the device usage volume. There are answers to provide a detailed insight into the aging of the inventory by looking into their age distribution, 15 month trend, and the top storerooms with aging inventory. Users can also drill back to the source Oracle Utilities Operational Device Management application for further details about a specific device or location.

## Repair and Testing

The Repair and Testing dashboard helps users to analyze key metrics related to the acceptance and the failure of devices. Answers included in this dashboard help users to understand the trend in the rejection of devices and the top device types and manufacturers with high device rejections. The answers provide insight into the average duration before failure and the device repair time trends.

# New Functionality

This section describes the new functionality introduced in this Oracle Utilities Advanced Spatial and Operational Analytics release.

## ODI ELT Framework

Until Release 2.4.0, Oracle Utilities Advanced Spatial and Operational Analytics used Oracle Warehouse Builder (OWB), along with the source application programs, to Extract-Transform-Load (ETL) data from the source application to the data warehouse. With Release 2.4.1, the product began to migrate from Oracle Warehouse Builder based ETL to Oracle Data Integrator (ODI) based ETL. This migration is planned in a phased manner, spanning across a few releases. During this migration cycle, ETL for some of the source applications would continue using OWB, while some would start using ODI.

In Release 2.4.1, the data extraction and loading activities for the Oracle Utilities Operational Device Management source application will be carried out by the Oracle Data Integrator ELT processes. Some of the key features of the new ODI ELT framework are as follows:

- A completely automated framework for pulling in data from source to the BI data warehouse.
- A robust and configurable replication layer that can be used for data lineage and cleansing purposes.
- Near real-time replication utilizing Oracle Golden Gate.
- Automatic foreign key reprocessing for the late arriving dimensions.

For more details, see the “ODI based ELT” section in *Oracle Utilities Advanced Spatial and Operational Analytics Administration Guide*.

# Enhancements

This section describes the enhanced features in Oracle Utilities Advanced Spatial and Operational Analytics in Release 2.4.1 compared to Release 2.4.0 Service Pack 1.



## Enhancements in 2.4.0 Service Pack 2

The following enhancements were introduced as part of the Release 2.4.0 Service Pack 2:

- **Oracle Utilities Customer Care and Billing Analytics**
- **Oracle Utilities Work & Assets Analytics**
- **Oracle Utilities Outage Analytics and Oracle Utilities Distribution Analytics**
- **Oracle Utilities Meter Data Analytics**
- **Improved ETL Fact Load Exception Management**

**Note:** See the metric reference guides for respective analytics for detailed description of the new and enhanced dashboards.

### Oracle Utilities Customer Care and Billing Analytics

This section describes the enhancements to Oracle Utilities Customer Analytics, Oracle Utilities Credit & Collections Analytics, and Oracle Utilities Revenue Analytics. It includes the following:

- New dashboard enhancements, including new **Overview** pages, additional drill down to other pages, and **Detail** pages.
- Drill back into the Oracle Utilities Customer Care and Billing application from within the BI dashboard.

### Oracle Utilities Work & Assets Analytics

The enhancements to Oracle Utilities Work & Asset Analytics include:

- Reorganized dashboards with improved visual metaphors.
- Additional drill down points providing more analytical workflow support.

### Oracle Utilities Outage Analytics and Oracle Utilities Distribution Analytics

The enhancements to Oracle Utilities Outage Analytics and Oracle Utilities Distribution Analytics include:

- Reorganized dashboards and additional drill down points providing more analytical workflow support.

### Oracle Utilities Meter Data Analytics

The enhancements to Oracle Utilities Meter Data Analytics include the following:

- Additional drill down points for improved analytical workflow support.
- New answer enabling comparative analysis of events, activities, and exceptions between various entities, such as head end systems, service providers, and device manufacturers.

### Improved ETL Fact Load Exception Management

The enhancements to ETL fact load exception management include the following:

- Capturing invalid dimension reference while loading fact, identifying specific records in error, and facilitating easy error correction.
- Allowing customers to associate custom exception handling procedure to fact loads to manage other types of exceptions besides invalid dimension reference.

## Enhancements in 2.4.0 Service Pack 3

The following enhancements were introduced as part of the Release 2.4.0 Service Pack 3.

### Oracle Utilities Exception Analytics

New dashboards are included in Oracle Utilities Exception Analytics for Oracle Utilities Customer Care and Billing To-Do entries.

The new dashboards are:

- Overview
- Incomplete To-Do Entries
- To-Do Entries

**Note:** See the *Oracle Utilities Exception Analytics Metric Reference Guide* for detailed description of the new dashboards and analyses.

## Enhancements in 2.4.0 Service Pack 4

The following enhancements were introduced as part of the Release 2.4.0 Service Pack 4.

### Multiple Data Source Indicator (DSI) Approach for ETL

Oracle Utilities Advanced Spatial and Operational Analytics v2.4.0 SP4 supports the multiple data source indicator approach for customers who implemented the multiple utilities application and leverage the integration supported by these systems.

For example: Oracle Utilities Meter Data Management (MDM) and Oracle Utilities Customer Care and Billing (CCB) joint implementations can leverage the Oracle Utilities Meter Data Management - Oracle Utilities Customer Care and Billing integration, and thus, customers can use Oracle Utilities Customer Care and Billing as the master repository for customer related data (account, premise, address, etc). So, the Oracle Utilities Meter Data Management instance does not store any customer-related information, but refers to the information in Oracle Utilities Customer Care and Billing. Similarly, Oracle Utilities Mobile Workforce Management (MWM) is the master repository for all meter related data.

The latest Oracle Utilities Meter Data Management and Oracle Utilities Mobile Workforce Management patches include additional parameter options for Customer DSI and Meter DSI, when running the extractor batch programs. This additional Customer DSI and Meter DSI are added into the control file. With this enhancement in this release, during the file load the load process uses the Customer DSI or Meter DSI to join to a Oracle Utilities Customer Care and Billing or Oracle Utilities Meter Data Management dimension respectively.

Refer to the respective release notes for the required Oracle Utilities Meter Data Management and Oracle Utilities Mobile Workforce Management patches. See *Oracle Utilities Advanced Spatial and Operational Analytics Administration Guide* for detailed description of multiple data source indicator approach for ETL.

## Known Issues

There are no known issues in Oracle Utilities Advanced Spatial and Operational Analytics version 2.4.1 at the time of this release. For any issue discovered at a later point of time, single fixes will be released accordingly.

## Supported Upgrades

Oracle Utilities Advanced Spatial and Operational Analytics version 2.4.1 is based on OBIEE 11g. Some of the older versions of this product will require a two-step upgrade process to reach version 2.4.1.

Current Release Version	First Upgrade To	Target Release Version
2.3.x	2.3.2.1	2.4.1
2.4.0.1		2.4.1
2.4.0.2		2.4.1
2.4.0.3		2.4.1
2.4.0.4		2.4.1

## Supported Source Applications

Oracle Utilities Advanced Spatial and Operational Analytics v2.4.1 supports the following versions of source applications:

Current Release Version	First Upgrade To
Oracle Utilities Customer Care and Billing	2.2.1, 2.3.0, 2.4.0
Oracle Utilities Meter Data Management	2.0.1 SP8 + Single fix patches 14741869, 15983267 + Framework patch 14741833
Oracle Utilities Mobile Workforce Management	2.1.0 SP 4 + Single Fix patch 14791886 + Framework patch 14741833
Oracle Utilities Network Management System	1.9.0.3, 1.10.0.3.1, 1.11.0.1
Oracle Utilities Work and Asset Management	1.9.0.4
Oracle Utilities Operational Device Management	2.0.1.1

## Demo Data Information

The Oracle Utilities Advanced Spatial and Operational Analytics, Release 2.4.1, demo database contains sample data based on the application versions provided with this release, including:

- Oracle Utilities Advanced Spatial and Operational Analytics 2.4.1
- Oracle Utilities Application Framework 4.1.0