Oracle Utilities Advanced Spatial and Operational Analytics

Release Notes

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Preface

These release notes provide an overview of new features and known issues in Oracle Utilities Advanced Spatial and Operational Analytics Version 2.4.0.

This preface contains these topics:

- **Audience**
- **Related Documents**
- **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 2.4.0.

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 Utilities Business Intelligence Documentation Library:

- *Oracle Utilities Business Intelligence Installation Guide*
- *Oracle Utilities Business Intelligence DBA Guide*
- *Oracle Utilities Business Intelligence User Guide*
- *Oracle Utilities Business Intelligence Server 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*

See Also:

- *Oracle Utilities Application Framework Business Process Guide*
- *Oracle Utilities Application Framework Administration Guide*

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.

Release Notes

These release notes contain the following sections:

- **About This Release**
- **Known Issues**
- **End of Support Notice**
- **Demo Data Information**
- **Supported Upgrades**

About This Release

This section contains general information about this release of Oracle Utilities Advanced Spatial and Operational Analytics, including:

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

Refer to the quick install guide and installation guide for information regarding 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 features in Oracle Utilities Advanced Spatial and Operational Analytics 2.4.0, including:

- **Oracle Utilities Meter Data Analytics Extractors and Schema**
- **Oracle Mobile Workforce Analytics Extractors and Schema**
- **Oracle Mobile Workforce Analytics**

Oracle Utilities Meter Data Analytics Extractors and Schema

Oracle Utilities Meter Data Analytics Extractors and Schema is a collection of prebuilt extractor programs, schema components, and load routines that customers can use to extract, transform, and load data from Oracle Utilities Meter Data Management. This collection includes preconfigured ETL components such as OWB objects and field level mappings to enable smooth transfer of data from Oracle Utilities Meter Data Management to Oracle Business Intelligence for Utilities schema.

Oracle Mobile Workforce Analytics Extractors and Schema

Oracle Mobile Workforce Analytics Extractors and Schema is a collection of prebuilt extractor programs, schema components, and load routines that you can use to extract, transform, and load data from Oracle Utilities Mobile Workforce Management. This collection includes preconfigured ETL components such as OWB objects and field level mappings to enable smooth transfer of data from Oracle Utilities Mobile Workforce Management application to Oracle Business Intelligence for Utilities schema.

Oracle Mobile Workforce Analytics

Oracle Mobile Workforce Analytics is a comprehensive collection of prebuilt OBIEE based dashboards and answers that help measure and monitor critical metrics related to Mobile Workforce Management. This prebuilt analytics collection covers critical business areas such as Crew Productivity, Overtime, Shift Timeliness, Crew Travel, Appointments and Emergencies.

This section describes the dashboards that are included with Oracle Mobile Workforce Analytics.

Overview

The Overview dashboard consists of a collection of answers that provide a high level view into key metrics related to the mobile workforce. Users can monitor crew and field worker productive time, overtime, comparison between estimated and actual travel mileage, emergency response time, and crew shift timeliness.

Crew

The Crew dashboard helps users analyze key metrics related to crew and field worker performance, timeliness, and overtime. Answers included in this dashboard help you understand

productivity trends, overtime trends, and compare crew and field worker tasks time and how different crews and field workers compare with each other and the overall average.

Emergencies

The Emergencies dashboard consists of various answers that help analyze how emergencies are handled, whether response time expectations are met at an acceptable rate, and how they are distributed across activity types, days of the week, and geographic regions.

Appointments

The Appointments dashboard provides details about how appointments are managed. Customers can use these answers to understand trends in meeting appointment schedules. These answers can also help identify specific crew and field worker and geographic regions having the most difficulty in meeting appointment time lines.

Travel

The Travel dashboard provides several answers that can help you understand how metrics related to crew and field worker travel are trending over a specific period of time. These answers can also help in ascertaining if estimations for travel mileage or duration are close to actual, or if they need to be reviewed for adjustments.

Activities

The Activities dashboard helps answer several key questions related to crew and field worker activities. These answers help analyze how often scheduled activities are successfully closed, understand the extent and reasons for activities taking more than one attempt to complete, and in the case of delayed activities, why they are delayed.

Enhancements

This section describes enhanced features in Oracle Utilities Advanced Spatial and Operational Analytics 2.4.0, including:

- **Meter Data Analytics**
- **Extract, Transform, and Load**
- **Drill Back Functionality**
- **Removal of OUAF Dependency**

Meter Data Analytics

This section describes new Meter Data Analytics dashboards released with this version of Oracle Utilities Advanced Spatial and Operational Analytics.

Devices and Installations

The Devices and Installations dashboard helps track the number of devices in production, and installation progress including number of AMI devices replacing scalar meters over a period of time. It also provides device status information such as installation status, on/off information and commissioning status, including answering critical questions such as how many meters are installed but not commissioned. Devices that never produce measurements and those that stopped producing measurements are listed in the dashboard.

The dashboard displays a geographical view of smart meter installations in each city or postal code along with the ratio of device types in each region.

Device Activities

The Device Activities dashboard provides statistics on commands such as connects, disconnects and on-demand reads, to help utilities monitor the effectiveness of AMI systems and identify anomalies. These statistics can also be used for regulatory purposes such as reporting on the number of disconnects in a particular region.

Device Events

The Device Events dashboard helps monitor device events sent from metering systems. Examples of these events include tamper alert, low battery and outage. This information can be used to identify problem devices, meter errors, and possible theft situations.

Validation, Estimation, and Editing (VEE) Exceptions

The VEE Exceptions dashboard helps keep track of VEE failures such as high-low errors and spike failures. The spatial view shows highest VEE Exception areas on the map. These errors help identify problem devices, head-end-system errors, and theft situations. Some of the questions answered in this dashboard are: Which customers have highest number of VEE exceptions? Is it a tampering situation? Which meters have highest missing measurements? Which VEE rule has the highest exceptions? How many measurements have Exceptions?

Usage Summary

The Usage Summary dashboard provides user consumption patterns that show trends in usage, consumption by TOU period, and estimated consumption quantities. It also helps track which industrial or commercial customers have the highest and lowest usage.

Utilities should make sure they are creating bill determinants for all of their measurements and that these usage transactions are being sent to the billing system. Usage Transactions dashboard provides statistics on the number of successful and error transactions. In addition, the usage and measurement quantities associated with these usage transactions.

Extract, Transform, and Load

The following enhancements in ETL processes are included with this version of Oracle Utilities Advanced Spatial and Operational Analytics:

- **Load Validation:** This enhancement helps ensure that the correct number of records have been loaded.
- **Workflow Purge:** This enhancement purges audit file records created by Workflow Manager and OWB to avoid congestion and slowdown in OWB performance.
- **Parallel Loading:** This enhancement enables OWB loads to be multi-threaded processes.
- **File Processor Daemon:** This enhancement supports a new background process to monitor if input flat files are ready to be loaded and to trigger the appropriate workflows.
- **Auto Cache Refresh Mechanism:** This enhancement utilizes OBIEE features to detect and refresh cache automatically to ensure that new updates to the schema are made available to the users.
- **Automated OWB Deployment:** This enhancement supports a new automated deployment mechanism that reduces complexity and improves efficiency in deploying OWB objects.

Drill Back Functionality

This enhancement allows Business Intelligence users to navigate directly to either the Oracle Utilities Mobile Workforce Management application or the Oracle Utilities Meter Data Management application from selected dashboards and answers in the Oracle Utilities Advanced Operational & Spatial Analytics Release 2.4.

Removal of OUAF Dependency

The Oracle Utilities Application Framework (OUAF) is an optional component in this release of Oracle Utilities Advanced Spatial and Operational Analytics. All dependencies on the OUAF are removed with respect to the presentation layer, including:

ETL Job Control: ETL job control, which used to be based on OUAF components, has been migrated to OBIEE.

Field Metadata Maintenance: The field label metadata maintenance pages, which used to be completely handled by the Oracle Utilities Application Framework, have been transferred to OBIEE. New screens within OBIEE allow users to maintain field label metadata.

Known Issues

This section describes known issues in Oracle Utilities Advanced Spatial and Operational Analytics version 2.4.0 at the time of this release. Single fixes for these issues will be released at a later date.

- **13523150** - File Processor is unable to read the Error Folder while scheduling the fact and dimension loads.
- **13535880** - Map range does not contain all the values. Some values outside the range boundary are displayed as grey on the map.
- **13441401** - Drill down does not carry all the filter values to the target page.
- **13440220** - Incorrect page subtitle @{Pv_Month} @{Pv_Year} after drill down.
- **13512777** - Device Status Detail Page showing incorrect data. The drill down page of Device Status Detail from Device Status tab (in Meter Data Management), seems to result in incorrect data being displayed.

End of Support Notice

The following platforms are not supported by this version of Oracle Utilities Advanced Spatial and Operational Analytics:

- HP-UX Itanium2

Demo Data Information

The Oracle Utilities Advanced Spatial and Operational Analytics 2.4.0 demo database contains sample data based on the application versions provided with this release.

Supported Upgrades

Oracle Utilities Advanced Spatial and Operational Analytics 2.4 is based on OBIEE 11g. Oracle Utilities Advanced Spatial and Operational Analytics Version 2.3.2.1 is the only prior version which is supported for direct upgrade to version 2.4. Some of the older versions of this product will require a two-step upgrade process to reach version 2.4.

Current Version	First Upgrade To	Target
2.2.1	2.3.2.1	2.4
2.3.2	2.3.2.1	2.4
2.3.1.1	2.3.2.1	2.4
2.3.2.1		2.4

Please note that upgrading from versions prior to 2.2.1 will likely involve multiple steps to upgrade to the current release 2.4. It is recommended that customers looking to upgrade from versions prior to 2.2.1 contact Oracle Technical Support for specific assistance and further information.