Oracle Utilities Analytics for Oracle Utilities Extractors and Schema and Oracle Utilities Analytics Dashboards

Release Notes

Release 2.5.0.0.1

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Oracle Utilities Analytics for Oracle Utilities Extractors and Schema and Oracle Utilities Analytics Dashboards Release Notes, Release 2.5.0.0.1

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Contents

Preface

This Release Notes provides an overview of new features and known issues in Oracle Utilities Analytics for Oracle Utilities Extractors and Schema and Oracle Utilities Analytics Dashboards, Release 2.5.0.0.1. Note that the product is referred to as Oracle Utilities Analytics v2.5.0.0.1 or OUA v2.5.0.0.1 in this document.

This preface contains the following topics:

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

Audience

This Oracle Utilities Analytics Release Notes is intended for anyone installing or using Oracle Utilities Analytics v2.5.0.0.1.

Related Documents

For more information, see the following documents:

- *Oracle Utilities Analytics for Oracle Utilities Extractors and Schema and Oracle Utilities Analytics Dashboards Installation Guide*

- *Oracle Utilities Analytics for Oracle Utilities Extractors and Schema and Oracle Utilities Analytics Dashboards Quick Install Guide*

- *Oracle Utilities Analytics for Oracle Utilities Extractors and Schema and Oracle Utilities Analytics Dashboards User's Guide*

- *Oracle Utilities Analytics for Oracle Utilities Extractors and Schema and Oracle Utilities Analytics Dashboards Administration Guide*

- *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*

- *Oracle Utilities Analytics Dashboards for Distribution Analytics and Outage Analytics*

- *Oracle Utilities Analytics Dashboards for Work and Asset Analytics Metric Reference Guide*

- *Oracle Utilities Analytics Dashboards for Operational Device Analytics Metric Reference Guide*

- *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 Operational Device Management Data Mapping Guide*

- *Oracle Utilities Extractors and Schema for Oracle Utilities Work & Asset Management Data Mapping Guide*

Conventions

The following text conventions are used in this document:

Notation	Indicates
boldface	Graphical user interface elements associated with an action, terms defined in text, or terms defines in the glossary
italic	Book titles, emphasis, or placeholder variables for which you supply particular values
monospace	Commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter

Release Notes

This release notes contains the following sections:

- **What's New in Oracle Utilities Analytics v2.5.0.0.1**

- **Supported Upgrade Paths**

- **Known Issues**

- **Demo Data Information**

What's New in Oracle Utilities Analytics v2.5.0.0.1

Oracle Utilities Analytics is a set of star schemas, graphic templates, and data processing programs allowing you to build a Business Intelligence (BI) solution to meet your organization's analytic requirements.

This section contains general information about this release of Oracle Utilities Analytics, including:

- **New Products**
- **Enhanced Products**
- **New Functionality**

    Note: See the *Oracle Utilities Analytics for Oracle Utilities Extractors and Schema and Oracle Utilities Analytics Dashboards Installation Guide* for information about the supported platforms and installation steps.

    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 the new products introduced in Oracle Utilities Analytics v2.5.0.0.1.

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

Oracle Utilities Operational Device Management Extractors and Schema

Oracle Utilities Operational Device Management Extractors and Schema is a collection of prebuilt 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 Extract-Load-Transform (ELT) components, such as Oracle Data Integrator objects and transformation views to enable smooth transfer of the data from Oracle Utilities Operational Device Management to the data warehouse in Oracle Utilities Analytics.

Oracle Utilities Operational Device Analytics

Oracle Utilities Operational Device Analytics is a comprehensive collection of prebuilt Oracle Business Intelligence Enterprise Edition (OBIEE) based dashboards and answers that measure and monitor critical metrics related to Oracle Utilities Operational Device Management. This prebuilt analytics collection covers critical business areas, such as warranty compliance, inventory status, asset aging, repair status, rejection rates, etc.

Enhanced Products

This section describes the products enhanced in Oracle Utilities Analytics v2.5.0.0.1.

- **Oracle Utilities Customer Care and Billing Extractors and Schema**
- **Oracle Utilities Credit & Collection Analytics**
- **Oracle Utilities Revenue Analytics**
- **Oracle Utilities Outage Analytics**

Oracle Utilities Customer Care and Billing Extractors and Schema

Until Oracle Utilities Analytics v2.5.0.0.1, Oracle Utilities Customer Care and Billing Extractors and Schema was based on the batch control based extractors on the source system and Oracle Warehouse Builder based load jobs on the target data warehouse. Oracle Utilities Analytics

v2.5.0.0.1 only supports Oracle Data Integrator based Extract-Load-Transform (ELT) for Oracle Utilities Customer Care and Billing Extractors and Schema.

The new Oracle Data Integrator based ELT processes is a collection of prebuilt transformation views, schema components, and load packages that are used to extract, load, and transform data from Oracle Utilities Customer Care and Billing. This collection comprises pre-configured ELT components, such as Oracle Data Integrator objects and transformation views to enable smooth transfer of data from Oracle Utilities Customer Care and Billing to the data warehouse in Oracle Utilities Analytics.

Also, the star schemas for Oracle Utilities Customer Care and Billing have been enhanced to include new facts for pay plans, payment arrangements, and service agreement billing details.

See *Oracle Utilities Extractors and Schema for Oracle Utilities Customer Care and Billing Data Mapping Guide* for the Oracle Data Integrator ELT jobs and new/old fact details.

Oracle Utilities Credit & Collection Analytics

Oracle Utilities Credit & Collection Analytics is a comprehensive collection of prebuilt Oracle Business Intelligence Enterprise Edition (OBIEE) based dashboards and answers that measure and monitor critical metrics related to credit and collection processes in the Oracle Utilities Customer Care and Billing system. The existing prebuilt analytics collection covers critical business areas, such as arrears, collectible processes, write-off processes, etc.

In Oracle Utilities Analytics v2.5.0.0.1, Oracle Utilities Credit & Collection Analytics have been enhanced to provide additional metrics to support the business cases for pay plans and payment arrangements.

Oracle Utilities Revenue Analytics

Oracle Utilities Revenue Analytics is a comprehensive collection of prebuilt Oracle Business Intelligence Enterprise Edition (OBIEE) based dashboards and answers that measure and monitor critical metrics related to revenue in the Oracle Utilities Customer Care and Billing system. The existing prebuilt analytics collection covers critical business areas, such as billed usage and revenue distributions.

In Oracle Utilities Analytics v2.5.0.0.1, Oracle Utilities Revenue Analytics have been enhanced to provide additional metrics to support business cases for bill cycles, bill segments, and unbilled service agreements.

Oracle Utilities Outage Analytics

Oracle Utilities Outage Analytics is a comprehensive collection of prebuilt Oracle Business Intelligence Enterprise Edition (OBIEE) based dashboards and answers that measure and monitor critical metrics related to Oracle Utilities Network Management System. The existing prebuilt analytics collection covers critical business areas, such as outages, restoration status, crew assignments, feeder performance, etc.

In Oracle Utilities Analytics v2.5.0.0.1, Outage Analytics have been enhanced to provide additional metrics to support business cases for critical customers, control zone level statistics on the outage event statuses, crew activity durations, and SAIDI trends.

New Functionality

This section describes the new functionalities introduced in Oracle Utilities Analytics v2.5.0.0.1.

- **Oracle Data Integrator ELT Framework**

- **Oracle Golden Gate Based Change Data Capture**

- **Administration Tool**

- **Oracle Database Standard Edition Support**

- **Export/Import for Initial Data Load**

Oracle Data Integrator ELT Framework

Until release 2.5.0.0.1, Oracle Utilities 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 2.5.0.0.1, Oracle Utilities Analytics has started migrating from Oracle Warehouse Builder based ETL to Oracle Data Integrator (ODI) based Extract-Load-Transform (ELT). This migration is planned in a phased manner, spanning across a few releases. During this migration cycle, ETL for some of the source applications still continue using Oracle Warehouse Builder, while some start using Oracle Data Integrator.

In the release 2.5.0.0.1, the data extraction and loading activities are carried out by the Oracle Data Integrator ELT processes, for the two source applications mentioned below:

- Oracle Utilities Operational Device Management

- Oracle Utilities Customer Care and Billing

Some of the key features of the new Oracle Data Integrator ELT framework are as follows:

- A completely automated framework for pulling in data from the source to the Business Intelligence (BI) data warehouse.

- A robust and configurable replication layer that can used for data lineage and cleansing purposes.

- Automatic foreign key reprocessing for the late arriving dimensions.

- Support for near real time loads.

> **Note**: For more details, see the **Oracle Data Integrator Based Extract, Load and Transform (ELT)** section of the **Overview of Oracle Utilities Analytics** chapter in *Oracle Utilities Analytics for Oracle Utilities Extractors and Schema and Oracle Utilities Analytics Dashboards Administration Guide.*

Oracle Golden Gate Based Change Data Capture

The Oracle Data Integrator based ELT Framework uses Oracle Golden Gate to replicate selected tables from source system into a replication schema. Oracle Golden Gate processes capture any changes on the source tables and transfer them to the replicated tables. The changes are available in the replication layer within few seconds, and the data can be used to load the target data warehouse.

Some of the key features of the Golden Gate based Change Data Capture (CDC) are as follows.

- Near real time replication

- Tracking history of master data changes

- Minimal overhead on the source system

Administration Tool

The Oracle Utilities Analytics Administration tool is a simple utility based on Oracle Application Express (APEX), which comes along with the Oracle database. The Administration tool offers a simple graphical interface for maintaining the various metadata tables, which are a part of the Oracle Data Integrator based ELT Framework.

> **Note**: For more details, see **Appendix B** in *Oracle Utilities Analytics for Oracle Utilities Extractors and Schema and Oracle Utilities Analytics Dashboards Administration Guide.*

Oracle Database Standard Edition Support

As of release 2.5.0.0.1, the following products can be deployed on the Standard Edition of the Oracle database:

- Oracle Utilities Operational Device Management Extractors and Schema

- Oracle Utilities Customer Care and Billing Extractors and Schema

However, the other products would still require the Enterprise Edition of the Oracle database. If any of the above two mentioned products are used along with other products of Oracle Utilities Analytics, then the Enterprise Edition of the Oracle database is still required.

Export/Import for Initial Data Load

Setting up a data warehouse for the first time involves a large volume of data to be transferred from the source application to the target environment. In Oracle Data Integrator based architecture, Oracle Golden Gate is utilized to sync up a selective set of tables from the source system in a schema on the target. This schema is referred as the "replication" schema. Initial synchronization requires obtaining a current snapshot of the tables to be taken at source and applied to the replication schema. To perform this efficiently and utilize the database processing power efficiently an Oracle Data Integrator scenario is provided. This process utilizes Oracle database's import/export over database link feature to perform the initial sync.

> **Note**: The import/export over data link feature is a new feature added in release 2.5.0.0.1, and was not available in release 2.5.0 and prior.

Supported Upgrade Paths

The following table outlines the supported upgrade paths available for Oracle Utilities Analytics v2.5.0.0.1.

Current Release Version	First Upgrade To	Target Release Version
Pre-v2.4.0	OUA v2.4.0	OUA v2.4.0 Service Pack 4 (OUA v2.4.0.4)
OUA v2.4.0 Service Pack 4 (OUA v2.4.0.4)	N/A	OUA v2.5.0.0.1

Known Issues

There are no known issues in Oracle Utilities Analytics v2.5.0.0.1 at the time of this release.

Demo Data Information

The Oracle Utilities Analytics v2.5.0.0.1 demo database contains sample data based on the application versions provided with this release.