

Oracle

DataRaker Cloud Service

Release Notes

E84102-01

January 2017

This document describes new features and known issues in this release of DataRaker Cloud Service.

Typographical Conventions

The following represents the styles applied to this guide.

Convention	Meaning
Bold	Bold text indicates a user interface element. Examples include window/page titles, keywords, and interactive elements such as menus, buttons, etc.
Hyperlink	A link to another section of the document or to an external document or website.
Add this text	Indicates something the user should enter in a field. Typically rendered as constant width font with a shaded background.
<i>varname</i>	Constant width italic indicates a user interface choice.
constant width type in a shaded block.	Used for code examples.
constant width	Example code in the midst of regular text.
NOTE: Note	A note providing a tip, suggestion, or a general information.
IMPORTANT: Note	A note with additional important information.
CAUTION: Note	A note of caution.

Preface

These Release Notes provide an overview of new features, known issues, and other important information related to OracleDataRaker Cloud ServiceRelease 3.8.0.3.0.

Audience

These release notes are intended for anyone installing or using OracleDataRaker Cloud ServiceRelease 3.8.0.3.0.

Related Documents

- *OracleDataRaker Cloud ServiceRelease 3.8.0.3.0 User's Guide*
- *OracleDataRaker Cloud ServiceRelease 3.8.0.3.0 Configuration Guide*
- *OracleDataRaker Cloud ServiceRelease 3.8.0.3.0 End User Provisioning Guide*
- *OracleDataRaker Cloud ServiceRelease 3.8.0.3.0 Power User's Guide*
- *OracleDataRaker Cloud ServiceRelease 3.8.0.3.0 Program Document: Data Requirements and Supported Systems Guide*

Release Notes

Oracle is a Software as a Service (SaaS) offering that provides analytical insight into the most critical business areas of a utility. DataRaker is delivered with a broad portfolio of field-tested applications that leverage big data technologies; such as, analytics programming languages (Python and R) and Oracle Database 12c. DataRaker's pre-built, but extensible, application addresses the needs of all business areas across the utility's value chain and are designed to evolve with the business. The solution spans multiple business areas including distribution planning, meter and grid operations, energy efficiency, demand response, and customer service.

What's New

The OracleDataRaker Cloud ServiceRelease 3.8.0.3.0 contains the following new and enhanced features.

New Features

OracleRelease 3.8.0.3.0 was developed with a primarily focus on performance improvement, product standardization, and automation. These enhancements will aid our current customers who are using V2 (MySQL) and V3.7 (Hadoop/HBase) to migrate to the latest version, which is built on an Oracle 12C database. In order to streamline this process, the following improvements have been made:

- DataRaker Cloud ServiceRelease 3.8.0.3.0 expanded the Distribution Planning and Operations module.
- The meter aggregation processes have been rewritten from Python to Java. In addition, changes to the software code were made to improve DataRaker's daily calculation

process performance. Other performance improvements have been gained through this enhancement and will be published in a White Paper within the next few months.

- The out-of-the-box user interface (UI) configuration and electric meter facts have been standardized in order to make it faster for existing customers to re-implement. *Please note that all parts of the UI can still be customized as desired; meaning, the panels, colors, drop-downs, names, and headers.*
- Chef automation, which is a tool that facilitates deployment and new environment configuration, has been enhanced so that establishing a new server is significantly faster. Furthermore, the ETL now includes multiple, automated checkpoints to ensure that uploaded Meter IDs are assigned to the correct Service Point.
- DataRaker now works with the new version of Oracle Identity Manager V11gR2.
- Many algorithms have been changed, enhanced, and decoupled from the product release so that we can respond more efficiently to changing customer requests.

Having passed the very extensive Oracle Cloud for the Industry (OCI) approval process, DataRakerRelease 3.8.0.3.0 will be installed exclusively in OCI data centers.

Enhancements

Reference	Component	Description
23725578	Performance	Enhancement: Rewrite Point Aggregation and Filter from Python to Java Feature: This enhancement leads to significant performance enhancements when running DataRaker daily core calculations.
23725636 23725650	Product Stabilization	Enhancement: Extensive bug fixing Feature: This step improves the usability of the product.
23725666	User Interface	Enhancement: Default UI Configuration Feature: A default UI configuration has been designed and comes ready "out of the box" with the product. Further UI customization can still be performed.
23725734	User Interface	Enhancement: Chef Automation first phase Feature: First phase of Chef automation has been completed and is currently being tested by Oracle Cloud for the Industry (OCI). This feature facilitates and expedites the process when establishing a new environment.
23726555	Algorithms	Enhancement: Decouple the algorithm release process from the module release process Feature: New algorithms can now be released between major releases and are not dependent upon the product release schedule. Documentation that lists new and enhanced algorithms will be published with each algorithm release.
22190487	User Provisioning	Enhancement: IDM version upgrade Feature: User provisioning change. This has been enhanced to use Oracle Identity Manager V11gR2.
23726675	Integration	Enhancement: Electric meter fact standardization Feature: Fact names have been standardized between all implementations

Reference	Component	Description
		making the data upload faster and product testing more reliable.
25071597	ETL	<p>Enhancement: Multi-relation look-up upon data import</p> <p>Feature: New ETL functionality that looks at multiple relations in order to load data against the correct point.</p>

Supported Browsers

DataRaker supports the following browsers:

- Google Chrome version 46+

Other browsers (as listed below) may be used, but they have not been certified; therefore, performance, page layout, and formatting may be compromised.

- Microsoft Internet Explorer versions 10 and 11
- Mozilla Firefox version 42+

Supported Upgrade Path

All customers currently on DataRaker V2 and 3.7 will be automatically upgraded to Release 3.8.0.3.0 over the next 18 months. The migration priority will be based data volume, processing needs, and promised module features.

Manual and Automated Testing

The Oracle quality assurance (QA) team is manually testing the new features within DataRakerRelease 3.8.0.3.0. In addition, the QA team has automated the testing process for specific aggregation core calculation processes; automated user interface (UI) testing has begun.

Regression Testing

Automated Regression Testing (ART) was not performed. Some manual regression testing of the product, however, was completed by the development, data scientists, and implementation teams.

Performance Testing

A meter performance test (of 4.5 million devices) was completed in July 2015. In addition, a corresponding White Paper was published in August 2016 listing the performance and scalability results.

As part of the performance test, we verified performance within the following steps:

- Data loading
- Core calculations
- Data aggregation
- Export

- User interface advanced filtering

After this test, performance recommendations were provided to the DataRaker team. These recommendations have been reviewed, developed, and implemented within DataRakerRelease 3.8.0.3.0. The initial results show that performance has been significantly enhanced. We will perform another in-depth performance test and publish its findings as well.

Known Issues

DataRakerRelease 3.8.0.3.0 is currently missing the following functionality that was available in V2:

- Functions (such as, greater than and less than) are not available. Users can, however, achieve the same result by setting a start and end values. This functionality will be restored once the filter editor has been migrated from Python to Java.
- Drag and drop capability within the Calc XML Editor has not been implemented.
- Meter voltage data within the Transformer Load Management panel is currently stacked; instead, this information is displayed with individual voltage data overlaid

Demo Data Information

Additional data for transformers, meters, feeders, and connectivity models have been uploaded to the demo server. This data provides the ability to demonstrate and view the features that were implemented in Release 3.8.0.3.0. This static data is the same that is used within MDM and CCB's demo environment; therefore, allowing integration use cases to be shown.

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