

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  |
|---|--|
| <b>Bold</b>                               | Bold text indicates a user interface element. Examples include window/page titles, keywords, and interactive elements such as menus, buttons, etc. |
| <a href="#">Hyperlink</a>                 | 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<br>in a shaded block. | Used for code examples.  |
| constant width                            | Example code in the midst of regular text.   |
| <b>NOTE:</b> Note                         | A note providing a tip, suggestion, or a general information.  |
| <b>IMPORTANT:</b> Note                    | A note with additional important information.  |
| <b>CAUTION:</b> Note                      | A note of caution.   |

# Preface

These Release Notes provide an overview of new features, known issues, and other important information related to Oracle DataRaker Cloud ServiceDataRaker Cloud ServiceRelease 3.8.0.2.0.

## Audience

These release notes are intended for anyone installing or using Oracle DataRaker Cloud ServiceDataRaker Cloud ServiceRelease 3.8.0.2.0.

## Related Documents

- *Oracle DataRaker Cloud ServiceDataRaker Cloud ServiceRelease 3.8.0.2.0 User's Guide*
- *Oracle DataRaker Cloud ServiceDataRaker Cloud ServiceRelease 3.8.0.2.0 Configuration Guide*
- *Oracle DataRaker Cloud ServiceDataRaker Cloud ServiceRelease 3.8.0.2.0 End User Provisioning Guide*
- *Oracle DataRaker Cloud ServiceDataRaker Cloud ServiceRelease 3.8.0.2.0 Power User's Guide*
- *Oracle DataRaker Cloud ServiceDataRaker Cloud ServiceRelease 3.8.0.2.0 Data Requirements and Supported Systems Guide*

# Release Notes

Oracle DataRaker Cloud ServiceDataRaker Cloud Service is a SaaS offering (Software as a Service) 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 (*e.g.*, Python and R) and Oracle Database 12c. DataRaker's pre-built, but extensible, applications address 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.

The Oracle DataRaker Cloud ServiceDataRaker Cloud ServiceRelease 3.8.0.2.0 Release Notes contains the following information:

- [What's New](#)
- [Supported Browsers](#)
- [Supported Upgrade Path](#)
- [Internal Manual and Automated Testing](#)
- [Regression Testing](#)
- [Performance Testing](#)
- [Known Issues](#)
- [Demo Data Information](#)

# What's New

The Oracle DataRaker Cloud ServiceDataRaker Cloud ServiceRelease 3.8.0.2.0 contains the following new and enhanced features.

## New Features

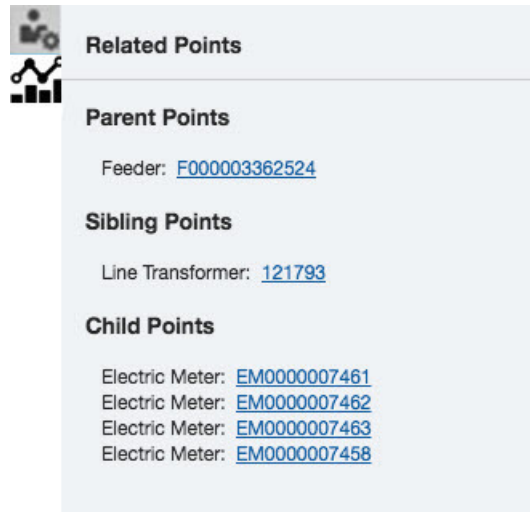
Development of Oracle DataRaker Cloud ServiceDataRaker Cloud ServiceRelease 3.8.0.2.0 was primarily focused on the expansion of the Distribution Planning and Operations module.

- New dashboards have been added that provide summary information on transformer asset health and total transformer population.
- Panels have been implemented to provide deeper insight into the individual transformer with the information such as total load, load by phase, numbers of hours overloaded, and voltage information.
- Transformer events are calculated to determine the frequency that a transformer has been overloaded (where utilization is more than 100% of kVA capacity) or severely overloaded (where utilization is more than 165% of capacity).
- New algorithms have been added to the DataRaker Distribution and Planning module to verify that a utility's connectivity model is accurate. The results from these new algorithms provide a list of meters that are most likely incorrectly assigned to a transformer and will also provide the transformer ID that the meters should be assigned to.

DataRakerRelease 3.8.0.2.0 extends the "out-of-box" integration to Oracle Utilities Meter Data Management (MDM) v2.1 SP3 and Oracle Utilities Customer Care and Billing (CC&B) v2.4 SP3. Automatic links can be implemented to navigate the user directly to CCB and MDM in order to view additional information about a selected service point, account, or meter.

DataRakerRelease 3.8.0.2.0 also provides an automatic data transfer template from Smart Grid Gateway (SGG) v2.1.0.3 to DataRaker.

Sibling point information has been added to the Related Points tab.



Oracle Identity Manager has been adopted. This allows utilities to take over the task of end-user provisioning. An End Provisioning Guide has been published that guides you through the process of creating and provisioning new users.

Having passed the very extensive Oracle Cloud for the Industry (OCI) approval process, DataRakerRelease 3.8.0.2.0 will be installed exclusively in OCI data centers.

## Enhancements

| Reference | Component                    | Description   |
|-----------|------------------------------|---|
| 22190413  | User Interface               | <b>Enhancement:</b> Transformer Enhancement<br><b>Feature:</b> New panel to present Transformer Load Management data. The aggregated load data from the meters are displayed on the transformer level. Volt data can also be displayed as average Voltage or by individual meter reporting to a specific transformer. |
| 22190393  | User Interface               | <b>Enhancement:</b> Transformer Event Calculations<br><b>Feature:</b> DataRaker is calculating transformer overload events (temperature adjusted) as well as transformer level power outage events.   |
| 22242177  | User Interface               | <b>Enhancement:</b> Aggregation by Phase<br><b>Feature:</b> Aggregation of load data from the individual meter up to the transformer will be calculated by phase (if meter phase information is provided).  |
| 22242199  | User Interface               | <b>Enhancement:</b> New Algorithms for Connectivity Verification<br><b>Feature:</b> DataRaker will verify that the utility connectivity model from meter to transformer is correct and provide suggestions of actual meter-transformer relationship.  |
| 22190431  | User Interface               | <b>Enhancement:</b> Added Sibling Relationships.<br><b>Feature:</b> Sibling information is provided similar to the capability that was available in V2.   |
| 22190487  | User Interface               | <b>Enhancement:</b> Transformer Overload Heat Map.<br><b>Feature:</b> New panel shows during which times of the day during a year that a transformer has been overloaded. This new feature is only available in the Distribution Planning and Operations Module.  |
| 22372575  | User Interface               | <b>Enhancement:</b> Distribution Planning and Operations Dashboards.<br><b>Feature:</b> The new dashboards provide high-level information regarding the overall transformer and feeder population and some basic transformer asset health information.  |
| 22190423  | User Interface               | <b>Enhancement:</b> Migrated to OBIEE 11.1.1.9 for dashboard presentation.<br><b>Feature:</b> Provides a more modern user interface (UI) experience and has some new UI display options.  |
| 22190504  | Integration                  | <b>Enhancements:</b> File-based integration to Smart Grid Gateway (SGG).<br><b>Feature:</b> File-format has been developed and tested to transfer meter and event data from SGG directly to DataRaker.  |
| 22195674  | Integration / User Interface | <b>Enhancement:</b> Links to Oracle Utilities Meter Data Management (MDM) and Oracle Utilities Customer Care and Billing (CC&B).  |

| Reference | Component | Description   |
|-----------|-----------|---|
|           |           | <b>Feature:</b> Link that allows customers with MDM and/or CCB to open CCB or MDM to see the corresponding information for the selected asset/object. |

## Supported Browsers

DataRaker supports the following browsers:

- Google Chrome version 46+
- Microsoft Internet Explorer versions 10 and 11
- Mozilla Firefox version 42+

Oracle Utilities recommends using Google Chrome. While other browsers may be used, performance, page layout, and formatting may be compromised and have not been fully tested.

## Supported Upgrade Path

The upgrade path for customers using DataRaker V2 will be considered on a case by case basis. The primary decision factors for an upgrade are data volume and processing needs.

All customers currently on version 3.7 will automatically be upgraded to Release 3.8.0.2.0 over the next 12 months.

## Internal Manual and Automated Testing

The Oracle quality assurance (QA) team is manually testing new features. For Release 3.8.0.2.0, the QA team has automated the testing of the time aggregation (TAGG) core calculation. Automation of user interface (UI) testing has begun.

Extensive UI testing has been done for the Meter to Bill module.

## Regression Testing

Automated Regression Testing (ART) was not performed. Some manual regression testing of the product, however, was completed by the development team.

## Performance Testing

Performance testing began on October 5th and first results for 950K meters have been received and are very encouraging. Further results from a 4.5 million meter performance test are expected at the end of May, 2015. A white-paper will be published upon completion of performance test.

As part of the performance test, we will verify performance for the following steps:

- Data loading
- Core calculations
- Data aggregation
- Export
- User interface advanced filtering

## Known Issues

DataRakerRelease 3.8.0.2.0 is currently missing the following functionality that was available in V2:

- Greater than, less than, etc. are currently not available, but users can achieve the same results by setting a start and end value. This functionality will be improved once the filter editor is migrated from Python to Java.
- Drag and drop capability within the Calc XML Editor has not been implemented.
- Meter voltage data in the Transformer Load Management panel is currently stacked; this information should be displayed with individual voltage data overlaid.
- The Heat Map panel is showing actual kWh instead of % overload; this will be addressed with the next hotfix.
- The List View button is missing from the Heat Map panel; this will be implemented with the next hotfix.

## Demo Data Information

We are in the process of uploading additional data to be able to demo the new features that were implemented in Release 3.8.0.2.0. The static data will be the same as used for MDM and CCB to easily demonstrate integration use cases.

## Documentation Accessibility

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Oracle DataRaker Cloud ServiceDataRaker Cloud Service

Release Notes

Release 3.8.0.2.0

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