Oracle Utilities Digital Asset Cloud Service Integration to Oracle Utilities Edge Distributed Energy Resources Management System

Release Notes

Release 25.4

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Oracle Utilities Digital Asset Cloud Service Integration to Oracle Utilities Edge Distributed Energy Resources Management System Release Notes, Release 25.4

Contents

Preface

Welcome to the Oracle Utilities Digital Asset Cloud Service Integration to Oracle Utilities Edge Distributed Energy Resources Management System Release Notes for release 25.4.

The preface includes the following:

- Audience
- Documentation and Resources
- Documentation Accessibility
- Conventions
- Acronyms

Audience

This document is intended for anyone implementing the Oracle Utilities Edge Distributed Energy Resources Management System integration to Oracle Utilities Digital Asset Cloud Service.

Documentation and Resources

For more information regarding this integration, foundation technology and the edge applications, refer to the following documents:

Product Documentation

Topic	Location
Oracle Utilities Digital Asset Cloud Service Integration to Oracle Utilities Edge Distributed Energy Resources Management System documentation	https://docs.oracle.com/en/industries/energy-water/integrations-index.html
Oracle Utilities Network Management System documentation	https://docs.oracle.com/en/industries/energy-water/network-management-system/
Oracle Utilities Digital Asset Cloud Service documentation	https://docs.oracle.com/en/industries/energy-water/digital-asset-cloud-service/

Additional Documentation

Resource	Location
Oracle Integration Cloud Service documentation	Refer to the OIC documentation at: https://docs.oracle.com/en/cloud/paas/integration-cloud/index.html
Oracle Support	Visit My Oracle Support at https://support.oracle.com regularly to stay informed about updates and patches. Refer to the Certification Matrix for Oracle Utilities Products (Doc ID 1454143.1) on My Oracle Support to determine if support for newer versions of the listed products is included. For more information, refer to the Oracle Utilities Integrations page at http://my.oracle.com/site/tugbu/productsindustry/productinfo/utilities/integration/index.htm
Oracle Technology Network (OTN) Latest versions of documents	http://www.oracle.com/technetwork/index.html
Oracle University for training opportunities	http://education.oracle.com/

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support
Oracle customers have access to electronic support for the hearing impaired. Visit: http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs

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.

Acronyms

The following terms are used in this document:

Term	Expanded Form
DERMS	Oracle Utilities Edge Distributed Energy Resources Management System
OUDACS/DACS	Oracle Utilities Digital Asset Cloud Service
OIC	Oracle Integration Cloud

Chapter 1

Release Notes

This release notes outline the information about the functionality in integrating Oracle Utilities Edge Distributed Energy Resources Management System with Oracle Utilities Digital Asset Cloud Service. Each section includes a brief description of the feature, the steps to enable or start using the feature, and any tips or considerations.

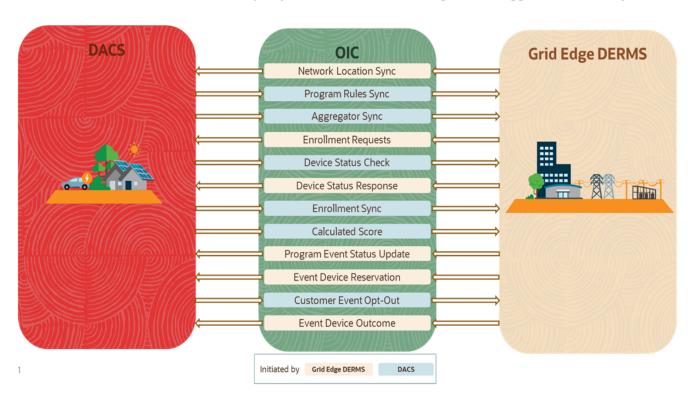The release notes focuses on the following:

- Overview
- Supported Applications
- About Oracle Utilities Digital Asset Cloud Service (DACS)
- About Oracle Utilities Edge Distributed Energy Resources Management System (DERMS)
- About Oracle Integration Cloud (OIC)
- New Features Summary
- Known Issues

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Oracle Utilities Digital Asset Cloud Service Integration to Oracle Utilities Grid Edge Distributed Energy Resources Management System Release Notes

Overview

Oracle Utilities Edge Distributed Energy Resources Management System integration to the Oracle Utilities Digital Asset Cloud Service component facilitates the exchange of information related to controllable devices at a customer's premise. This integration can be leveraged to support customer enrollment, unenrollment, controllable device replacement, program event status updates and program event participation.

For more information about the functionality, refer to the *Oracle Utilities Digital Asset Cloud Service Integration to Oracle Utilities Edge Distributed Energy Resources Management System Configuration Guide* included in this release. The documentation is available on Oracle Help Center at: https://docs.oracle.com/en/industries/energy-water/integrations-index.html

The following diagram illustrates the business processes supported in this integration:

The integration can be leveraged to:

- Send electrical network hierarchy for a customer's service point from Oracle Utilities Edge Distributed Energy Resources Management System to Oracle Utilities Digital Asset Cloud Service. This facilitates the association of the Service Point to the Transformer, Feeder, and Substation via the network location within Oracle Utilities Digital Asset Cloud Service.

- Send the program rules and constraints associated to a program from Oracle Utilities Digital Asset Cloud Service to Oracle Utilities Edge Distributed Energy Resources Management System. This will enable Oracle Utilities Edge Distributed Energy Resources Management System to compute a device's availability for participation in an event.

- Send the Energy Aggregator details from Oracle Utilities Digital Asset Cloud Service to Oracle Utilities Edge Distributed Energy Resources Management System.

- Send enrollment requests for customer owned devices from Oracle Utilities Edge Distributed Energy Resources Management System to Oracle Utilities Digital Asset Cloud Service. This initiates the controllable device's enrollment process in Oracle Utilities Digital Asset Cloud Service.

- Send the controllable device status check request initiated from Oracle Utilities Digital Asset Cloud Service and receive the most recent controllable device status response from Oracle Utilities Edge Distributed Energy Resources Management System.

- Synchronize customer, controllable device(s), and program subscription information on successful enrollments, unenrollment, and device replacements from Oracle Utilities Digital Asset Cloud Service to Oracle Utilities Edge Distributed Energy Resources Management System.

- Periodically transfer the device score values calculated from Oracle Utilities Digital Asset Cloud Service to Oracle Utilities Edge Distributed Energy Resources Management System for event planning.

- Send scheduled event and stage information from Oracle Utilities Edge Distributed Energy Resources Management System to Oracle Utilities Digital Asset Cloud Service. Oracle Utilities Edge Distributed Energy Resources Management System also sends the succeeding event-stage status updates to Oracle Utilities Digital Asset Cloud Service.

- Send the device reservation information. They are the selected controllable devices participating in an upcoming scheduled event from Oracle Utilities Edge Distributed Energy Resources Management System to Oracle Utilities Digital Asset Cloud Service.

- Send the customer event-opt out notifications for each reserved device for an upcoming event from Oracle Utilities Digital Asset Cloud Service to Oracle Utilities Edge Distributed Energy Resources Management System.

- Send the device outcome for all participating devices in an event from Oracle Utilities Edge Distributed Energy Resources Management System to Oracle Utilities Digital Asset Cloud Service.

In this integration, Oracle Integration Cloud is used as a middleware to connect the applications. It uses REST APIs to facilitate communication between these two applications.

Supported Applications

The following table shows the supported application versions in this integration:

Application	Version
Oracle Utilities Digital Asset Cloud Service	25.4 or higher
Oracle Utilities Edge Distributed Energy Resources Management System	V2.6.0.2.0 or higher
Oracle Integration Cloud	V25.4 or higher

Refer to the Certification Matrix for Oracle Utilities Products (Doc ID 1454143.1) on My Oracle Support to determine if support for newer versions of the listed products is included.

About Oracle Utilities Digital Asset Cloud Service (DACS)

Oracle Utilities Digital Asset Cloud Service provides the core functionality for utilities to create, run, and maintain demand response and distributed energy resource programs. It comprises the following functional areas:

- **Asset and Device Management**: Maintenance of controllable assets, such as "smart" thermostats, electric vehicle chargers, storage batteries, and other types of devices.

- **Program Enrollment/Unenrollment**: Identifying specific customers that are eligible for programs, and establishing relationships between the customers, the programs, and if appropriate, device locations where one or more controllable devices are (or have been) installed.

- **Program Management**: Creation and maintenance of Demand Response Programs to which customers can subscribe and which allows utilities to temporarily alter the settings of specific devices in their homes as a response to periods of high demand.

- **Program Subscriptions**: Maintenance of a customer's program subscriptions that represent the customer's enrollment in a program and device registration. Program subscriptions link the customer to a program and device location where controllable devices are installed.

- **Demand Response Event Management**: Identification and reservation of a customer's controllable devices in response to usage demand.

About Oracle Utilities Edge Distributed Energy Resources Management System (DERMS)

Oracle Utilities Edge Distributed Energy Resources Management System is built on Oracle Utilities Network Management System (NMS). It adds incremental support to the Oracle Utilities Network Management System platform for the management of behind the meter demand response resources. Oracle Utilities Edge Distributed Energy Resources Management System can initiate control signals to devices inside customer homes, such as smart thermostats. Oracle Utilities Network Management System facilitates the modeling of individual Demand Response devices down to the customer service point and/or aggregated to load transformers to support Oracle Utilities Network Management System driven optimization. In conjunction with Oracle Utilities Network Management System the Oracle Utilities Edge Distributed Energy Resources Management System component can help optimize electrical networks both operationally and commercially.

Oracle Utilities Edge Distributed Energy Resources Management System offers strategy templates to be used for forecasting for various scenarios during event management. It provides event functions that help grid operators manage and review the forecasted impact of an event. This includes the ability to nominate, approve or reject an event;

monitor or cancel an ongoing event and audit historical events. Oracle Utilities Edge Distributed Energy Resources Management System supports automatic generation of event stages (blocks of field device activity) for configured objectives. Stages are built based on cost scores and reduction forecasts received from external applications used to help monitor and manage the Demand Response programs.

About Oracle Integration Cloud (OIC)

Oracle Integration Cloud is a unified platform to integrate the applications, automate processes and create applications.

Using integrations, connect the applications into a continuous business flow. The integrations can be quickly developed and activated between both the cloud and on-premises applications. The lookups help to match application-specific codes between the two applications. Oracle Integration Cloud provides graphical mapper where the user can map just by dragging and dropping between the applications.

New Features Summary

For a list of existing features, refer to the Oracle Utilities Digital Asset Cloud Service Integration to Oracle Utilities Edge Distributed Energy Resources Management System documentation on the Oracle Utilities Integrations page.

The following new features were included in this integration:

- Network Location Sync
- Program Rules Sync
- Aggregator Sync
- Enrollment Sync (with Device Grouping)
- Customer Event Opt-out
- Change in Config Property Lookup

Network Location Sync

Oracle Utilities Edge Distributed Energy Resources Management System has the capability to capture the network topology details for each service point. This integration allows Oracle Utilities Edge Distributed Energy Resources Management System to create a file extract containing the simplified network hierarchy information linked to a service point and send it over to Oracle Utilities Digital Asset Cloud Service.

The file generated by Oracle Utilities Edge Distributed Energy Resources Management System contains a reference to the service point and the details of the transformer, feeder, and substation it is associated to. On receipt of the file, Oracle Utilities Digital Asset Cloud Service updates the network location entity associated to that service point to record the transformer, feeder, and substation details.

Program Rules Sync

Oracle Utilities Digital Asset Cloud Service allows a utility program manager to maintain a set of event related constraints or rules for each program. These program rules facilitate the determination of a customer's availability to participate in an upcoming event. The utility program manager can also modify some of the rule parameters or associate or disassociate a rule from a program.

This integration allows Oracle Utilities Digital Asset Cloud Service to send the program rules associated to a program when it is created or updated by a program manager to Oracle Utilities Edge Distributed Energy Resources Management System. These are recorded and evaluated alongside other parameters to ascertain the customer and device's eligibility to participate in an upcoming event.

Aggregator Sync

Energy aggregators are managed within Oracle Utilities Digital Asset Cloud Service, and it allows the utility to capture details of each aggregator that can enrol and register controllable assets. Aggregator details must also be setup within Oracle Utilities Edge Distributed Energy Resources Management System to facilitate device communication.

This integration allows Oracle Utilities Digital Asset Cloud Service to send the details of newly added aggregators or any modifications done for existing ones to Oracle Utilities Edge Distributed Energy Resources Management System to subsequently update the communication setup for those aggregators.

Enrollment Sync (with Device Grouping)

Grouping of controllable devices refers to the process of categorizing and organizing multiple devices into specific sets for efficient management, coordination, and optimization within a specific context. Groups can be based on network hierarchy, programs, device technical characteristics (like technology, rated power), and combination of different group types. Groups related to customer's rate, program enrollments, and device specifications are typically created within Oracle Utilities Digital Asset Cloud Service.

This integration facilitates the sending of the device grouping information using the existing enrollment synchronization message from Oracle Utilities Digital Asset Cloud Service to Oracle Utilities Edge Distributed Energy Resources Management System, so that it can be used for efficient management of devices during the creation of an event.

Customer Event Opt-out

Customers enrolled in certain utility programs get the choice to send an advance notification of not participating in the event associated to that program. They can email or call the utility contact center to indicate their intent to opt-out of an upcoming event. Oracle Utilities Digital Asset Cloud Service facilitates the utility user to record such preemptive opt-out notifications.

This integration facilitates the sending of the device level event opt-out notification from Oracle Utilities Digital Asset Cloud Service to Oracle Utilities Edge Distributed Energy Resources Management System so that such devices are taken out of the event list and the operator can further assess the viability of proceeding with that event.

Change in Config Property Lookup

In the "OUTL-BRT-DACS_DRMS_ConfigProps" project, the "enrollmentSyncAckDelay" property has been removed. It is not in use anymore.

Known Issues

There are no issues known at the time of this integration release.