

End-to-End Device and Program Management With Oracle Utilities Digital Asset Cloud Service

As the Distributed Energy Resource (DER) capacity growth continues, utilities face increasing challenges in managing and optimizing these resources to maintain grid efficiency and reliability. Oracle Utilities Digital Asset Cloud Service (DACS) enables electric utilities to seamlessly capture and manage DERs and their data. With DACS, utilities can track DER attributes at each stage of the program, providing them with actionable insights for more effective and proactive DER management throughout their entire lifecycle.

Key capabilities:

- Device Asset Management
- Program Management
- Event Management
- Settlements
- Analytics and Business Insights

Key benefits:

- Accurately capture device attributes and event participation
- Improve responsiveness of all connected generating assets and controllable loads
- Improve customer service by delivering real-time portal updates
- Seamless integration with utility DERMS, CIS, Mobile Workforce, and other utility data platforms
- Proven scalability from a leader in grid management



Figure 1. DACS ensures DER and program optimization through end-to-end management of all device-based and behavioral programs.

Single-source-of-truth

DACS serves as a single source of truth for program managers and grid operators, enabling efficient management of all Demand Response (DR) and Distributed Energy Resource (DER) programs. By consolidating data in one centralized platform, DACS ensures seamless integration with other operational and planning systems, supporting a wide range of applications and business processes.

Comprehensive DER Attributes

Each DER connected to the utility’s system is represented as a unique entry in DACS. The comprehensive set of data includes a DER’s physical characteristics, location, and customer contact details. DACS can also store similar information for DER aggregations. The system is designed to recognize relationships between DERs—such as those belonging to the same aggregation or sharing ownership—while minimizing data redundancy by efficiently managing these associations.

Program and Event Management

DACS features an interactive, configurable user interface that empowers utility users to create and manage programs by defining eligibility criteria and associating rules for event participation. It is designed to streamline the customer enrollment and unenrollment processes for both customer-owned and utility-managed assets. Additionally, DACS enables the management and tracking of DER events based on predefined criteria and calculates control scores for each DER based on event performance.

Related Solutions:

- Oracle Utilities Network Management System
- Oracle Utilities Distributed Energy Resource Management System
- Oracle Utilities Live Energy Connect
- Oracle Utilities Analytics

Settlement Calculations

After an event, DACS coordinates with other utility systems to assess the individual performance of DERs. Using this data, DACS calculates financial settlements for customers and shares the results with Customer Information Systems (CIS) for billing purposes.

Get the whole picture

DACS offers analytics that provide insights into DER performance, program enrollments, events, and participation. This enables program managers and operators to access a comprehensive history of event execution, participation, financial settlements across all programs and participants and actionable insights for more effective and proactive DER management throughout the entire DER lifecycle.

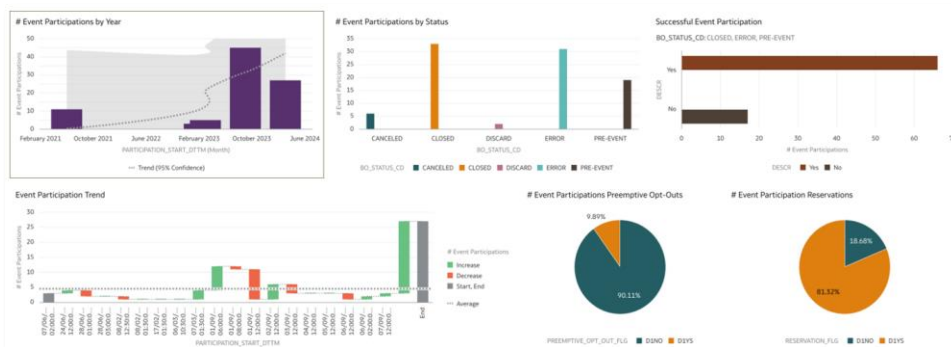


Figure 2. DER Analytics in DACS provide actionable insights and business intelligence for utilities.

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