Operations Optimizer

Data sheet

KEY BENEFITS

- Analyzes data from more than 30 million water, gas and electricity meters, in both AMI and legacy environments, at more than 30 leading utilities.
- Can be accessed both in the office and in the field. Position Tracking enables use of map views in the field from a truck mount, laptop or tablet computer.
- Leverages big data technologies to maximize algorithmic performance, even with long data retention and increasing dataset sizes.
- Supports any combination of electricity, gas, AMR, AMI and manually read meters in the service territory.
- Data integration completed in days, not months.
- Includes proprietary analytics and machine-learning tools for modeling, analyzing and presenting vast amounts of data from various utility systems.
- Improves business-process efficiency with advanced workflow tools for ranking, prioritizing, filtering and automating workflows. Score-based algorithms rank events and cases to help users prioritize actions and optimize resource allocation.
- Role-based security allows customers to control access to every piece of data and take actions based on configurable programs and roles.

OPTIMIZE OPERATIONS WITH INTEGRATED DATA, ANALYTICS AND ACTIONABLE SOFTWARE

Operations Optimizer is a powerful analytics solution that enables utilities to improve operational efficiency and develop business processes and workflows by leveraging insights from a variety of internal and external data sources. Both list views and map views provide the ability to view, search, filter and aggregate data through an easy-to-use interface.

MODULES SUPPORT KEY BUSINESS FUNCTIONS

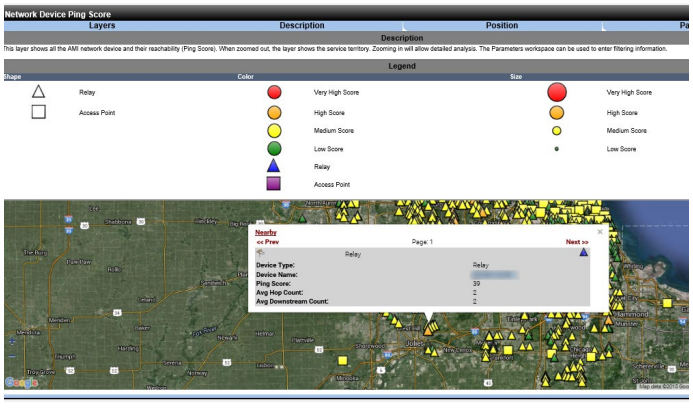
Operation Optimizer's prebuilt modules utilize the power of the Operations Optimizer platform. Each module is designed to support a variety of immediate use cases and are also configurable to support future needs.

AMI Operations: utilizes smart meter data, meter events and configuration data to identify and diagnose meter data collection and delivery problems. Additionally, AMI network communications attributes network statistics to identify conditions that require operational attention.

EV Detection: identifies the presence of electric vehicle charging equipment at the customer premises. Awareness and understanding of EV loading enables utilities to measure the impact of these new loads, identify overloaded assets and develop targeted solutions. Knowledge of EV adoption and load is valuable for a variety of other system planning and operations tasks, and for customer marketing programs aimed at providing the best possible experience for electric vehicle owners.

Meter Temperature Monitoring: uses meter temperature readings and/or high meter temperature events to identify meters reporting temperatures over a configurable threshold and provides statistics for assessing temperature history of the meter.

Meter-to-Phase Connectivity: uses machine learning and AMI meter voltage data to identify the phase connection of each meter. Accurate phase connectivity enables efficient outage management, system planning, load flow calculations, phase balancing and many other critical grid management operations.



Ping scores are shown in this example map view in the AMI Operations module. Ping scores refer to the reachability of the Access Points and Relays in the AMI network.

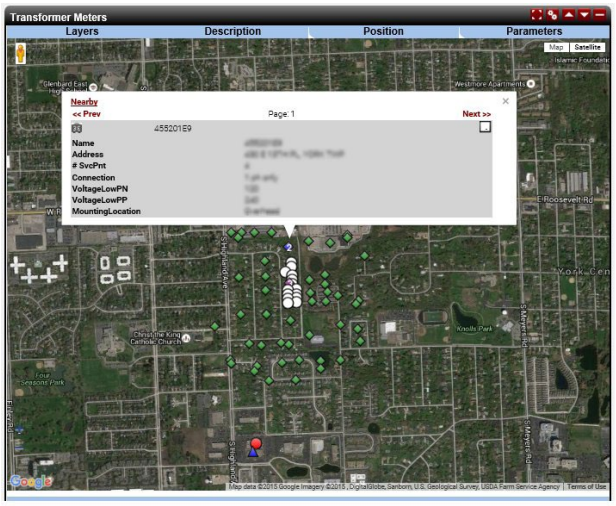
SPECIFICATIONS

Meter-to-Transformer Connectivity: uses machine learning and AMI meter voltage data to determine distribution transformer connections. Accurate and up-to-date connectivity data is essential for efficient outage management, asset management and other grid management operations.

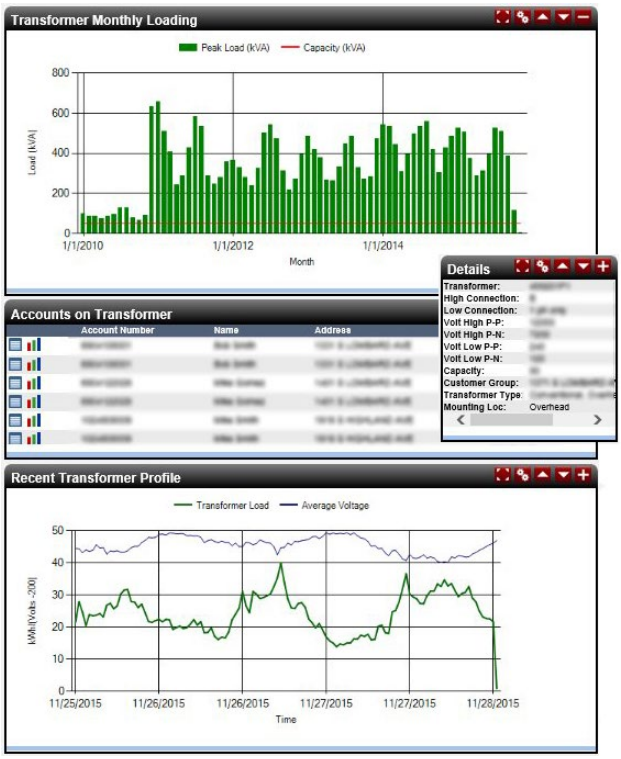
Revenue Assurance: utilizes smart meter data, meter events and configuration data to protect against revenue leakage and other non-technical losses by analyzing transformer imbalances and identifying tampered or bypassed meters.

Solar Detection: identifies the presence of solar generation behind the customer's revenue meter at the premises. This information can be used for system planning, customer marketing programs associated with distributed generation and a variety of other customer-focused use cases.

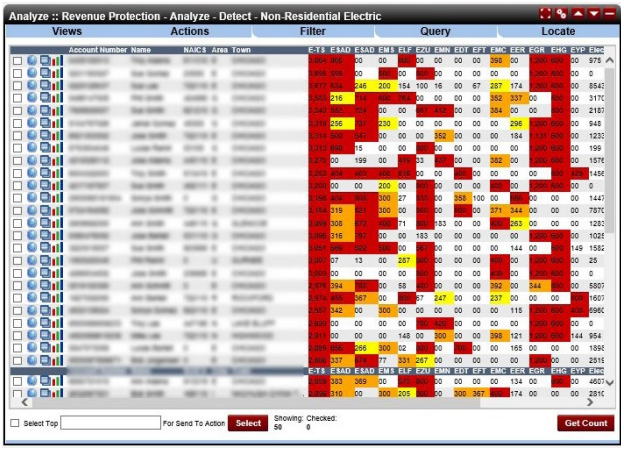
Transformer Load Monitoring: utilizes smart meter data from AMI meters along with weather information to calculate distribution transformer loading and its effect on asset longevity at a scale and accuracy previously impossible. Loss-of-life calculations assist planners in effectively allocating capital for proactive transformer replacement where necessary.



Transformer meter locations are shown in this example map view in the Grid Operations module.



Example charts show monthly loading, connected accounts, and recent profile information for a selected transformer in the Grid Operations module.



This example list view in the Revenue Assurance module shows the results of detection analysis by account.

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