

UtilityIQ® Outage Detection System

Features

- » Minimizes the impacts of outages and speed restorations
- » Automates outage and restoration scoping and reporting
- » Improves operational efficiencies through rapid identification and scoping of outages and restoration activities
- » Integrates with utility connectivity models enable outage and restoration correlation
- » Uses web services and enterprise message bus to easily integrate with existing meter data management and outage management systems
- » Aggregates outages by transformer, fuse, and other shared topology elements

Minimize impact and restore service to your customers

The Silver Spring Smart Energy Platform combines network infrastructure, software, and professional services to enable a range of smart grid applications.

The UtilityIQ™ application suite provides data aggregation, reporting, and control across the smart grid. The UtilityIQ Outage Detection System (ODS) provides the outage data integral to that control.

Whether your utility needs an advanced application for outage detection and service restoration or a turn-key outage management platform for small-scale operations, UtilityIQ ODS will minimize the impact of outages and help you rapidly restore service. UtilityIQ ODS will help your operation realize new efficiencies, improve service delivery, and automate outage and restoration scoping.

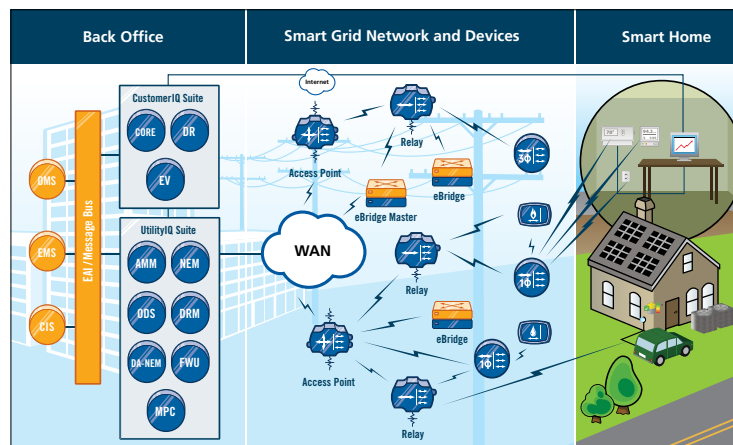
UtilityIQ ODS offers easy and flexible integration with existing systems to support powerful workflow development.

Eliminate guesswork

UtilityIQ Outage Detection System enables rapid detection of outages and restoration activities—even throughout automated switching activities. It can virtually eliminate uncertainty as to the impact of outages through its innovative outage and restoration correlation engine. The correlation engine integrates with the utility connectivity model to accurately identify and scope outage and restoration extent. Programmable exception policies enable filtering



UtilityIQ ODS Outage "Inference Accuracy" Report



An advanced, IP-based network enables the smart grid—from the data center to the customer premise.

About Silver Spring Networks

Silver Spring Networks is a leading Smart Grid solution provider that enables utilities to achieve operational efficiencies, reduce carbon emissions and empower their consumers with new ways to monitor and manage their energy consumption. Silver Spring provides the hardware, software and services that allow utilities to deploy and run multiple advanced solutions, including Smart Metering, Demand Response, Distribution Automation and Distributed Generation, over a single, unified network. The Silver Spring Smart Energy Platform is based on open, Internet Protocol (IP) standards, allowing continuous, two-way communication between the utility and devices on the grid. Silver Spring has numerous deployments with leading utilities in the US and abroad, including Florida Power & Light, Pacific Gas & Electric, Pepco Holdings, Inc., Jemena Electricity Networks Limited and United Energy Distribution, among others. For additional information, please visit www.silverspringnetworks.com.

UtilityIQ® Outage Detection System

and aggregation by event type or duration. Configurable momentary outage detection enables filtering of momentary outages so operators can focus on sustained outages.

Performance metrics

With UtilityIQ ODS, you can visualize current outages geographically and manage them by an outage event list. You can also report on outages by time, type, duration, and inference accuracy.

ID	Description	Outage Start Time
100000001	verified instant outage	10/26/2009 1:05:04 pm
100000002	verified instant outage	10/26/2009 1:05:04 pm
100000003	verified instant outage	10/26/2009 1:05:04 pm
100000004	verified instant outage	10/26/2009 1:05:04 pm
100000005	verified instant outage	10/26/2009 1:05:04 pm
100000006	verified instant outage	10/26/2009 1:05:04 pm
100000007	verified instant outage	10/26/2009 1:05:04 pm
100000008	verified instant outage	10/26/2009 1:05:04 pm
100000009	verified instant outage	10/26/2009 1:05:04 pm
100000010	verified instant outage	10/26/2009 1:05:04 pm

UtilityIQ ODS Outage Filtering

Persistent, scalable data storage and correlation allows any utility—regardless of its size—to leverage meter data logs for accurate outage/restoration accounting and reporting.

Date	NIS Event Log Outages	Last Gasp/Power Restora Trap Outages	Difference	%
Oct 22, 2009	109	24	85	22.02%
Oct 23, 2009	211	189	102	51.46%
Oct 24, 2009	88	26	52	49.91%
Oct 25, 2009	141	35	106	24.82%
Oct 26, 2009	181	24	77	23.78%
Oct 27, 2009	198	139	59	70.2%

UtilityIQ ODS "All Outages" Report