REVENUE ASSURANCE

Silver Spring's next-generation solution minimizes lost revenue and protects customers from unsafe conditions caused by meter tampering.

Save Money for Ratepayers and Identify Unsafe Conditions

Minimizing electricity losses is a significant challenge for utilities, but it also presents a massive opportunity for savings. Revenue assurance is now more accurate, faster and more efficient than ever before thanks to advances in networking, data analytics and data management enabled by the SilverLink Data Platform (SDP) and the Operations Optimizer application.

SDP provides modern, Big Data tools to effectively manage the massive data and real-time operational decision response enabled by high-capacity, distributed IoT networks, as well as historical processing of data for analysis and archiving. The data platform enables applications developed by Silver Spring, partners and within your organization through a set of standard APIs.

Operations Optimizer leverages SDP to provide your organization with a set of tools for executing analytic methods across large sets of integrated data and for streamlining the management of anomalies with powerful workflows, actions and automation. Operations Optimizer's Revenue Assurance module includes an extensive list of analytics methods that have been developed and tested for more than a decade on tens of millions of meters.

The industry-leading Silver Spring Networks Revenue Assurance solution provides utilities with the fastest time to benefits and the most effective results. SDP's integration with Operations Optimizer, an extensive library of analytic methods, and pre-built work management tools enable your organization to realize benefits in weeks, not years.

DID YOU KNOW?

Theft is estimated to account for 4% of global electricity losses, ranging by country anywhere from 1% to 25%. Other causes of lost electricity include technical problems—such as equipment failures or inefficiencies—and nontechnical losses due to billing errors or malfunctioning meters. If utilities cannot identify and correct these types of issues, losses impact utility profits and costs can be passed on to ratepayers. It's estimated that the cost of theft is $15 to $50 annually per utility customer worldwide, not including other types of losses.

The Next Generation of Utility Revenue Assurance

The adoption of smart meters has vastly improved utilities' capabilities in minimizing losses and reducing safety issues. New data from smart meters and other devices can indicate suspicious usage patterns, energy diversions, tamper conditions, and voltage anomalies that help pinpoint and resolve the exact cause of energy and water that's distributed but isn't paid for. However, many revenue protection solutions— whether built by third parties or a utility's internal team— can result in slow, time-consuming and manual processes filled with false positives and unnecessary truck rolls. That's because there are many variables that can indicate theft, but utilities aren't always able to access the right data in a timely manner. Detecting different types of theft and safety issues also requires different types of data, but, today, utilities only have a portion of the data they need to pinpoint advanced conditions.
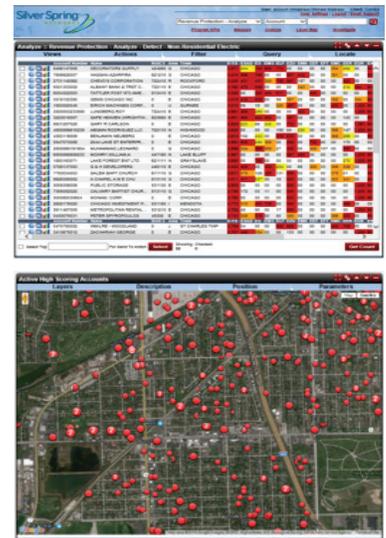
Revenue Assurance has become more sophisticated, requiring utilities to combine highly accurate, high-granularity and low-level meter data with field- tested theft detection algorithms. The Revenue Assurance solution enables more precise theft detection than most off-the-shelf or self-developed solutions, thanks to SDP's advanced data-gathering capabilities and Operations Optimizer's more-than 100 proven analytics methods for theft and safety conditions. Anomaly detection using the Revenue Assurance solution is faster because it can capture streaming data and feed it to the applications that need it. Once in place, this same data platform can later be leveraged for the many other applications SDP supports, including demand response, voltage management, meter temperature management, and customer engagement.

PROVEN LEADERSHIP IN REVENUE ASSURANCE

» Over 20 utilities using these solutions to monitor more than 30 million meters

» Only technology that supports residential and commercial, all utility services and all metering intervals

» Success rate of up to 99% using AMI data

» More than 100 analytics methods implemented based on over ten years of research

» Statistical and machine learning technology for tuning analytic methods based on field results

HOW REVENUE ASSURANCE GETS YOU THERE
» More timely and effective identification of unsafe conditions
» Easy and fast deployment that doesn't require significant IT resources
» Enhance analytics by incorporating additional sources of data

Silver Spring®
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