

Network Solutions for Electric Utilities



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Aclara Technologies LLC is a world-class supplier of smart infrastructure solutions (SIS) to more than 780 water, gas, and electric utilities globally. Aclara SIS offerings include smart meters and other field devices, advanced metering infrastructure and software and services that enable utilities to predict and respond to conditions, leverage their distribution networks effectively and engage with their customers. Aclara Technologies LLC is owned by an affiliate of Sun Capital Partners. Visit us at Aclara.com and follow us on Twitter @AclaraSolutions.

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Smart Infrastructure Solutions for Electric Utilities

Create a complete utility network that will pay for itself and add value over many years. Aclara® offers a portfolio of advanced metering infrastructure (AMI), software, meters, sensors and deployment services to help utilities build smart infrastructure solutions (SIS*) to serve customers reliably and cost-effectively.

Networks Tailored to Exact Requirements

The Aclara Synergize® portfolio of radio frequency (RF), power-line communications (PLC) and cellular network technologies provide a backbone on which to build a true SIS system for reading meters and sensors on distribution networks – no matter how the utility's service area is configured. So whether asset density is high, low, or in-between, Aclara brings together the right network solution to meet the utility's specific requirements. Our suite of technologies includes Synergize® RF Electric, TWACS® Power-Line Communications, and Metrum Cellular® systems, all of which can work individually or together to complete a custom network solution for any utility.

Synergize® RF Electric

A cornerstone of any SIS for high-density urban and suburban areas, the Synergize RF Electric solution is a wireless point-to-multipoint communication network for meters and a wide range of devices that monitor conditions on power distribution networks. It provides the best wireless total cost of ownership single-infrastructure solution for electric utilities, with faster, efficient more reliable data collection, reduced interference, greater reach, improved throughput and high security.

Synergize TWACS® Power Line Communications

The Synergize TWACS PLC system power lines utilizes power distribution lines to create a powerful two-way communications network for electric utilities in rural areas, where population may be widely distributed.

Synergize® Cellular

The Synergize® Cellular solution is an elegant, pass-through technology that collects and delivers large amounts over a virtual private network operating on public cellular infrastructure. It supports standards for communicating on the internet as well as DNP3 (Distributed Network Protocol) and MV-90, which allow communications to SCADA (Supervisory Control and Data Acquisition) devices and commercial meters. It adds to the effectiveness of AMI and lets utilities reach all commercial meters and sensors, no matter where they are located, to bring back load profiles and other data intensive information in seconds.

Software That Turns Data into Insight

The heart of the Aclara solution for electric utilities is its iiDEAS® software platform, which offers a single, customizable interface through which utility managers, operations personnel and customer service representatives unlock the information they need to perform their jobs more efficiently and effectively.

A central data repository in the iiDEAS solution serves as the foundation for sharing data and control, providing the validation, estimation and editing (VEE) necessary to correct potentially bad data, allowing more accurate and efficient operation.

The software's support of standards such as TCP/IP, MultiSpeak® and CIM enables it to manage and present data collected from multiple sources including electric meters, load-control devices, outage management systems, SCADA equipment, global positioning systems and weather feeds.

Modules to Meet Specific Demands

The enriched data collected from meters and other devices is delivered and presented through modules that integrate into the iiDEAS platform. Aclara offers modules for loss analysis, data reporting, transformer analysis, voltage analysis, fault detection and localization, power billing, meter exchange and consumer engagement.

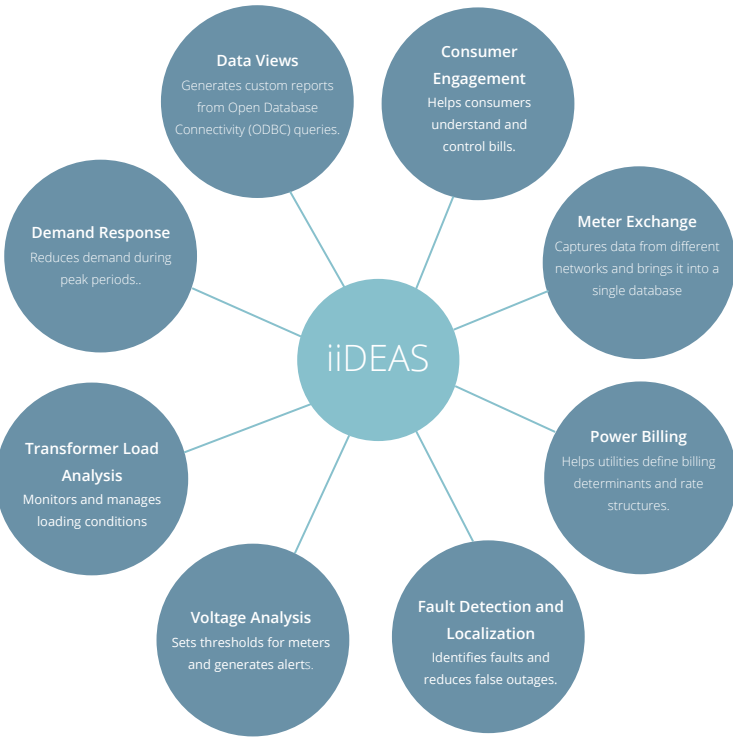
Leader in Electric Smart Meters

Aclara is a leading vendor of ANSI and IEC residential and commercial electric meters worldwide. In North America, Aclara continues to hold a leading share of planned meter deployments as of April 2016, according to market-research firm Navigant.



ANSI Meters

The Aclara I-210 series of single-phase residential meters and the kV2c series of commercial and industrial meters offer quality, accuracy, reliability and value unmatched in industry. Both meter families offer utilities real-time instrumentation, providing advanced functions including access to critical information on demand, loads, and time of use; true power quality monitoring and real cost of service measurements.



IEC Smart Meters

The Aclara SGM1100™ and SGM3000™ families of solid-state smart meters are compliant to IEC standards, offering the highest quality residential single-phase and polyphase metering worldwide. Both meter families provide security and robust, reliable and durable quality.

Worry-Free Solutions Delivery

Aclara leads, or primes, the deployment of projects, assigning each customer a project manager who serves as a single point of contact to resolve issues and manage implementations. Aclara also certifies all installers on our meters and communications equipment, including those working for third parties, to support seamless and glitch-free processes.

When third parties are used to deploy smart grid technologies, including smart meters and supporting communications network devices, Aclara manages the work so that customers receive only the highest quality service