

Global Study of Data Communications Usage Patterns and Plans in the Electric Power Industry: 2011- 2015

Volume 2: Communications Projects

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Part 1: Utility Communications Solutions Vendors

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27	Landis & Gyr
28	LBSat
30	Sensus
32	Silver Spring Networks
34	SmartSynch
36	Tantalus
38	Trilliant
40	Z-Wave

Part 2: Recent Utility Communications Projects

Projects are organized by type of utility according to what services are provided, and then sorted alphabetically: first by Country, then by Company.

41	Electric
100	Electric and Gas
105	Electric, Water, Gas
109	Gas
110	Industrial
111	Oil
113	Oil and Gas
117	Water
132	Water and Electric

Volume two of “Global Study of Data Communications Usage Patterns and Plans in the Electric Power Industry: 2011-2015” looks at utility communications solutions vendors in the areas of PLC, fiber, cellular, satellite, and RF (900MHz) technologies. Market leaders are profiled with a brief description of their utility communications-related offerings as provided on their websites.

Additionally, several utility communications installation projects that took place in the water/wastewater, oil & gas, and electric industries between 2005 and 2011 are outlined.

Aclara

Quoted from <http://www.aclaratech.com/pages/company.aspx>

The Aclara® brand represents the industry's leading Intelligent Infrastructure™ technologies for providing device networking, data-value management, and customer communications to water, gas, and electric utilities globally. Over 500 utilities in nine countries rely on proven Aclara solutions to connect with their customers. Part of the Utility Solutions Group of ESCO Technologies Inc. (NYSE: ESE), St. Louis, Aclara integrates the strengths of the industry's most proven technologies – the Aclara STAR® Network RF-based advanced metering infrastructure (AMI), Aclara TWACS® power-line AMI technology, Aclara Software® operational-efficiency and customer-care applications, and Aclara Smart Communications standards-based, wide-area network to serve utility clients with superior solutions that meet even the most rigorous requirements.

Aclara provides three main communications solutions packages based on Power-line data capture (TWACS), RF (STAR Network), and TCP/IP Wireless (Acendant Network).

Quoted from <http://www.aclaratech.com/AclaraPLS/pages/default.aspx>

The Aclara Two-Way Automatic Communications System (TWACS) Technology is a proven, fixed-network solution that uses patented technology to transmit data over power lines. Aclara TWACS Technology offers two-way communication to electric meters and provides for timely billing, load control, demand response, and outage detection and assessment. With the system, utilities can effectively manage customer data and reduce costs while enabling innovation and providing superior customer service.

Aclara TWACS Technology is successfully deployed in a wide variety of locations – from small rural coops to large investor-owned utilities. In a consistently changing utility environment, Aclara TWACS Technology provides a solid foundation on which to build the metering solutions of today and tomorrow.

Quoted from <http://www.aclaratech.com/AclaraRF/pages/default.aspx>

The Aclara STAR Network advanced metering infrastructure (AMI) system delivers robust data communications on secure, licensed radio frequencies. The STAR wireless fixed network efficiently and automatically provides timely data, empowering utilities to maximize meter functionality and provide superior customer service. Accurate and timely billing, high/low consumption reporting, and non-revenue water loss detection are just a few of the AMR benefits the STAR Network can provide – all at a low system cost with manageable operating expenses.

A choice for both the large and small utilities, the Aclara STAR Network has been successfully deployed by companies ranging from small municipal water systems to large investor-owned electric and gas utilities. In a consistently changing utility environment, Aclara and the STAR Network provide a solid foundation on which to build the metering solutions of today and tomorrow.

Quoted from <http://www.aclaratech.com/AclaraNetwork/pages/about.aspx>

Acendant Network™

Seamlessly Connect to the Utility LAN

Clearly, gas, water, and electric utilities are facing new realities related to the challenges posed by the Smart Grid. These include meeting the mandates of new laws and regulations, developing environmentally sound solutions, and working with a public that expects more and better service at less cost.

It's no wonder that electric, gas, and water utilities are looking for innovative technology solutions. One approach is to add intelligence to the utility network to more effectively communicate with utility assets and applications. More intelligence in the utility ecosystem necessitates a smart network that seamlessly connects to the utility LAN.

The Acendant Network is that solution – a single, multipurpose, standards-based, wide-area network (WAN) that manages data transmission between the utility and diverse networks and devices including AMI, SCADA, and mobility systems.

Company: Westerville

Type: Water & Electric

Country: USA

Source:

http://www.columbuslocalnews.com/articles/2011/02/16/multiple_papers/news/allwemer_20110216_0831am_3.txt

Vendors: Not specified

Technologies: Wireless, Fiber

Start Year: 2011

Description:

Five months after turning down a \$4.3 million federal grant to put the technology in place citywide, City Council approves spending \$4.75 million to build it for commercial customers

Company: Corpus Christi, TX

Type: Water & Gas

Country: USA

Source:

http://www.elc.com/index/display/article-display/1925711087/articles/electric-light-power/volume-88/issue-1/sections/five-questions_to.html

Vendors: Not specified

Technologies: Wireless broadband

Start Year:

Description:

The municipal utility in Corpus Christi, Texas, uses a single, wireless broadband network for backhaul of smart water and gas meters; other city departments also use the network for mobile work force applications.