Gridstream PLX

Landis+Gyr manage energy better

The Next Generation of PLC Technology

Will your PLC network keep up with the smart grid?

Landis+Gyr, a pioneer in developing power line carrier (PLC) technologies designed specifically for advanced metering, developed Gridstream® PLX to be the next generation PLC network for smart grid communications.

Just like Landis+Gyr's legacy PLC technology, PLX maintains continuous, unsolicited communication with each device on the network. But PLX goes a step further by expanding communication channels to allow delivery of 15-minute interval data in a continuous stream from every endpoint. The expanded network capacity allows faster outage and restoration notifications as well as remote firmware upgrades and improved security options.

The added communication capacity of PLX provides more data, more often. Not only does this enhance support for utility billing and engineering departments, but it also enhances demand response, prepay and outage management programs with faster data delivery and confirmations. PLX benefits customer service departments with up-to-date information for consumer web portals and detailed interval data to analyze for billing inquiries.
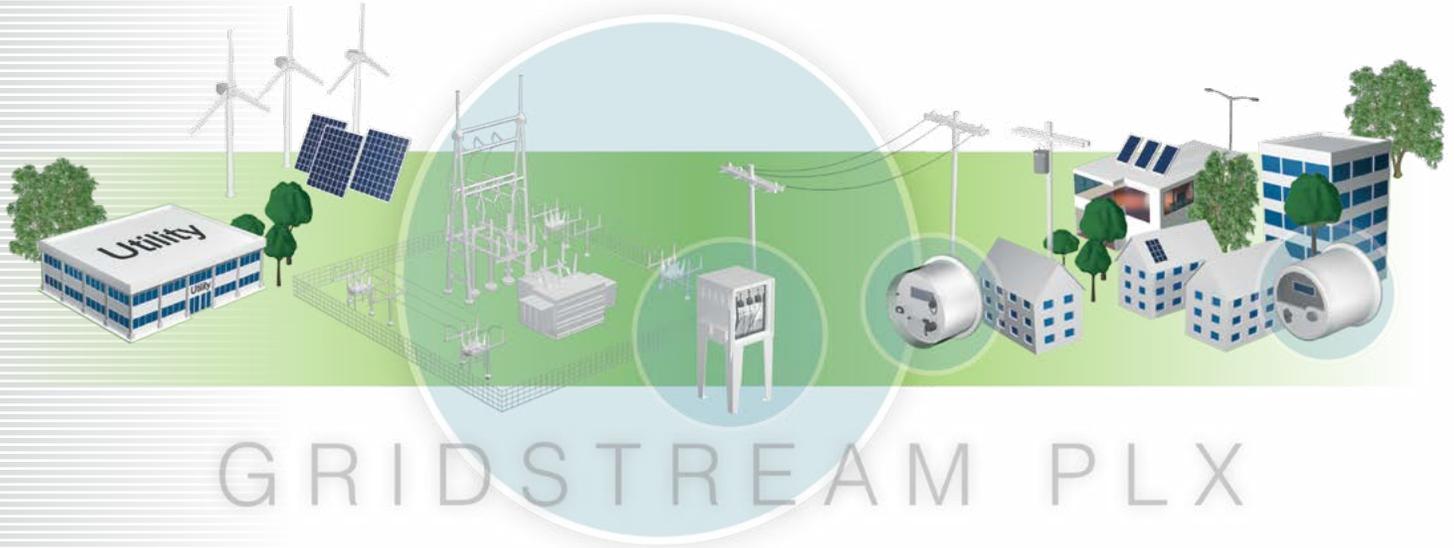
Best of all, PLX retains the same head-end software, Command Center, for a smooth migration path along with the ability to operate multiple networks from the same software. Using the proven and familiar Command Center platform, utilities can monitor and control activity on their distribution networks like never before. PLX provides analytics from the meter to the substation to identify potential trouble spots and failing equipment, while assisting with preventative maintenance.

HIGHLIGHTS:

- 15-minute intervals continuously from every endpoint
- Redundant storage of data at the endpoint and collector to ensure no data loss
- Daily diagnostic information to improve customer service
- Remote control of four time-of-use rates within multiple schedules and holiday rates
- Automatic and immediate notification of meter tamper
- Remote reflashing capability to avoid obsolescence of module firmware
- Remote disconnect/connect with FOCUS® AX-SD meter

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Gridstream PLX Connects Utility Assets Across the Grid

Applications

Interval Meter Data

Interval data is viewable every 15 minutes from every meter to support engineering analysis, customer service response and billing applications.

Distribution System Analytics

PLX monitors distribution system noise and harmonic data to locate and replace faulty infrastructure, isolate and quantify line loss, resize equipment and improve power quality.

Voltage Monitoring

Voltage readings are useful for applications ranging from load management to infrastructure sizing and detecting failing transformers. This information also helps maintain power factor and reduce line losses. Coincident voltage readings can be used for analyzing peak loads.

Consumer Energy Management

Engaging the consumer through energy portals, home area networking and dynamic payment programs such as prepay, encourages energy efficiency and improves customer service.

Integration

Command Center, the operating software for Gridstream systems, provides ease of integration into existing utility networks.

Landis+Gyr's standards-based software and meter data management solutions deliver interoperability with most applications used for CIS, billing, engineering, operations and data management.

Demand Response

Peak power management options include dynamic voltage management, time-based pricing programs and direct load control.

Outage Detection

Because endpoints are in continuous communication with the data collector, outage reporting and restoration detection are triggered automatically within 15 minutes of an event.

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