

The Next Generation of PLC Technology for the Future Smart Grid

Gridstream® PLX

The smart grid is moving faster. PLX raises the bar for PLC networks.

Landis+Gyr is a pioneer in developing power line carrier (PLC) technologies designed specifically for advanced metering. Now, we are introducing Gridstream PLX, the next generation of PLC networks 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.

Best of all, it retains the same Gridstream head-end platform, Command Center™, for a smooth migration path and the ability to operate multiple networks from the same software.

Gridstream PLX is a groundbreaking PLC network that delivers:

- 15-minute intervals of kWh or voltage continuously from every endpoint
- 45 days of storage of interval data at the endpoint
- Voltage reads with time of occurrence by phase
- Remote control of four time-of-use rates within multiple schedules and holiday rates
- Automatic and immediate notification of meter tampering
- Remote reflashing capability to avoid obsolescence of module firmware
- Remote disconnect/connect with FOCUS® AX-SD

Whatever the smart grid application, PLX does it better

Gridstream PLX offers many advantages over first-generation PLC networks. The added communication capacity provides more data, more often. Not only does this provide more support for a utility's billing and engineering departments, but also enhances demand response, pre-pay and outage management programs with faster data delivery and confirmations.

Additionally, PLX enhances customer service with up-to-date information for customer portals and detailed interval data to help analyze billing complaints.



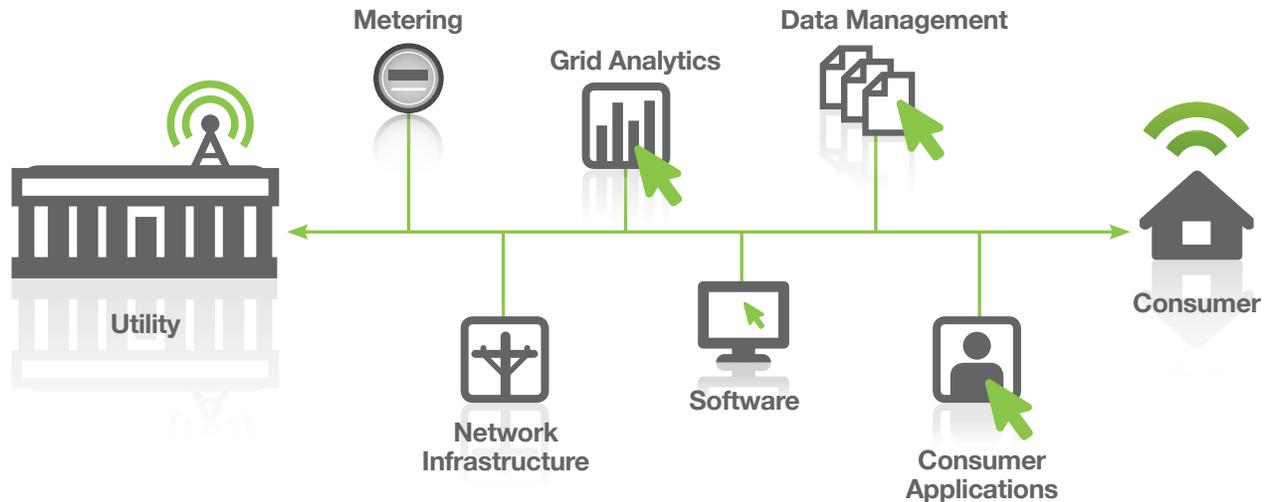
Using the proven and familiar Command Center platform, utilities can monitor and control activity on their distribution networks like never before. PLX provides analytics from the meter to the substation, identifying potential trouble spots, failing equipment and assisting with preventative maintenance.

Proven PLC technology, future-ready

PLX builds on 20 years of PLC technology experience, adding throughput capacity without sacrificing continuous communication with every endpoint on the system. The enhanced storage and channel capacity of Gridstream PLX delivers smart grid benefits today and the flexibility to run the applications of the future.

**Landis
Gyr+**
manage energy better

Gridstream® PLX Connects Utility Assets Across the Grid



System Applications

Distribution System Analytics

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

Demand Response

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

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

Gridstream supports a number of consumer engagement applications. Energy portals, home area networking and dynamic payment programs, such as pre-pay, encourage energy efficiency and improve customer service.

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.

Software Integration

Command Center, the system operating software for Gridstream systems, provides ease of integration into existing utility networks. As a member of MultiSpeak® and an active partner with leading meter data management (MDM) and utility software providers, Landis+Gyr delivers compatibility with a wide variety of applications used for CIS, billing, engineering, operations and data management.

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