Distribution Automation

Landis+Gyr

Maximize Your AMI Investment

Achieve Greater Reliability, Voltage Control, DER Management, and Asset Optimization

Distribution Automation (DA) is in our DNA. Landis+Gyr has been providing DA solutions for over 25 years, leading the market with our end-to-end solution for distribution grid management and monitoring.

Distribution network operators face ever-increasing challenges, with higher performance targets as customers and regulators raise the bar of expectations. Landis+Gyr's DA solution enables distribution utilities to deliver higher reliability, better customer service, and reduced operating costs while maintaining workforce safety and addressing evolving technology challenges.

Integrated Solutions for Metering, Grid Management, Analytics, and Automation

Built on the Gridstream® Connect platform, our secure multipurpose utility IoT platform, Landis+Gyr's DA solution provides two-way communication for a variety of DA and grid management applications. Continuous, low-latency data collection and control enable various grid management use cases, including:

- Auto-sectionalizing and restoration
- Distributed energy resource integration
- Recloser monitoring and control

- Volt/VAR monitoring and control
- Capacitor bank monitoring and control
- Transformer / line monitoring

KEY BENEFITS

- Facilitate faster, more effective decision making, with information provided by intelligent applications distributed among the DA radios and DA end devices
- Optimize your AMI investment today and be prepared for future upgradeability with DA radios that are interoperable with a wide range of distribution equipment
- Ensure future compatibility with standards-based network components, software, and software integration, with over-the-air support of DA endpoints

- Maintain control during outages with battery-backed communications
- Manage renewables and other types of distributed energy resources
- Multi-commodity DA support for electric, water, wastewater, and gas utilities

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DA Solution Components

Secure Data Management

Iot Gateway

Landis+Gyr's IoT Gateway is an intelligent communications software solution that provides a configurable interface between utility applications and the head end system. This creates a secure and integrated environment for managing message traffic. The IoT Gateway enables the flow of messages (both solicited and unsolicited) between RTUs/IEDs and their SCADA master stations using DNP3 over TCP/IP. The IoT Gateway contains a mapping of DNP3 and LumenIQ station addresses to radio addresses in the communications network, allowing packets from the master stations to be routed to the correct devices and vice-versa.

Intelligent Automation and Control

The Gridstream Connect platform enables communications to DA devices, allowing distribution utilities to monitor the activity and status of field devices. These include reclosers, voltage regulators, switches, and other electronically controlled devices that are equipped with communications technology, such as Landis+Gyr's Network Integrated WAN Radio (IWR) and Network Bridge. Key network benefits include higher speed / lower latency communications, with industry leading security solutions, and a path to Wi-SUN interoperability.

The Network IWR

The Network IWR provides serial connectivity for advanced mesh networks. Available with RF Mesh and Mesh IP protocols for a reliable and secured network, the IWR offers individual message prioritization with DA traffic as the highest priority. Support for programming at the radio level provides near real-time monitoring and control.

Network Bridge

The Network Bridge operates at the community level with an onboard processor, serving as a computing platform in a distributed architecture. The Network Bridge supports the Mesh IP protocol and has a cellular modem option that supports major telecom carriers globally and is private LTE ready. The Network Bridge also provides support for OFDM modulation (up to 2.4 Mbps speeds), and is configurable, serviceable, and upgradeable, with 2x Ethernet and 2x Serial ports.

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Landis+Gyr's Distribution Automation provides an end-to-end solution for distribution grid modernization. The solution facilitates faster, more effective decision making and enables utilities to optimize and extend AMI investments with standards-based components that ensure future compatibility and support electric, water, wastewater, and gas utilities.

Let's Build a Brighter Future Together.

Since 1896, Landis+Gyr has been a global leader of energy management solutions. We've provided more than 3,500 utility companies all over the world with the broadest portfolio of products and services in the industry. With a worldwide team of 1,300+ engineers and research professionals, as well as an ISO certification for quality and environmental processes, we are committed to improving energy efficiency, streamlining operations, and improving customer service for utility providers.

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