



Voltage Monitor

Landis+Gyr+
manage energy better

Effectively Presents Geospatial Display of Real-time Voltages

Overview

Landis+Gyr's Advanced Grid Analytics Voltage Monitor application enables utilities to maximize the benefits from their AMI and other smart grid investments.

Voltage Monitor application presents a geospatial display of real-time voltages, leveraging bellwether meter readings (5–15 minute intervals). The application offers a complete system-wide voltage analysis that monitors and reports based on real-time network measurements – identifying areas where voltages violate utility and regulatory limits. This application also allows users to monitor voltages during peak consumption periods.

The application proactively notifies the operators about power quality issues by raising alarms and sending notifications, and allows the operators to monitor voltages 24x7.

Additionally, the application uses historical voltage data to recommend bellwether meters for each distribution circuit and then interfaces with AMI head-end systems to reconfigure meters as required.

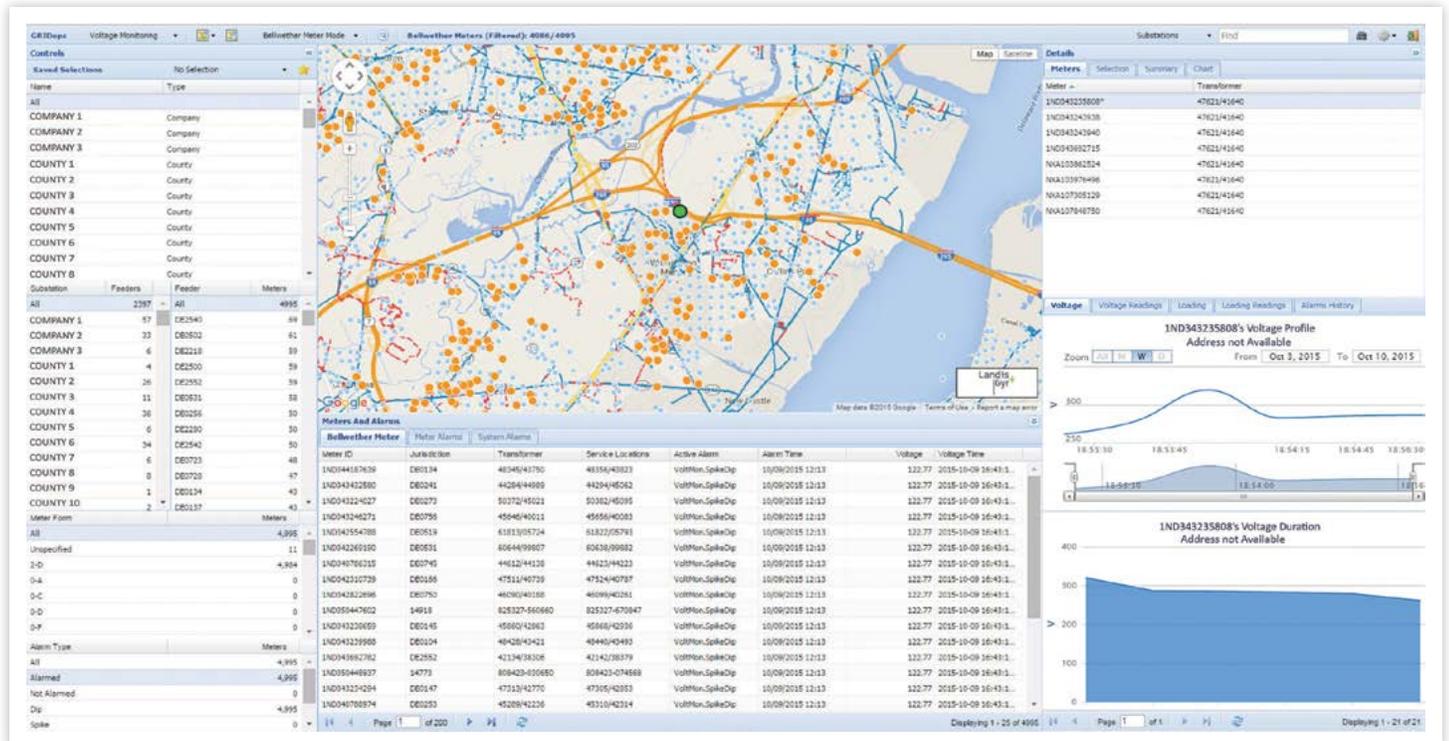
The browser-based, dynamic user interface offers geospatial visualization of full distribution connectivity model and grid assets by utilizing Google Maps™ mapping service. The database and analytical capabilities allow interactive, color-coded, geographic display of all individual system components. The fully interactive drill-down functionality provides detailed data retrieval and display for individual substations, feeders, distribution transformers and meters.

BENEFITS:

Why Landis+Gyr makes a difference.

- View network connectivity and identify power quality issues in real-time
- Adhere to regulatory compliance regarding voltage limits
- Maximize investment in CVR/WO

Advanced Grid Analytics: Voltage Monitor



Sample Screenshot: Voltage Monitor – limit violations

Platform

The grid analytics solution consists of a powerful enterprise platform and modular, web-based, user friendly modules. The platform enables utilities to leverage data integration, visualization and advanced algorithms for multiple analyses and benefits. Given the modular nature of the applications, as needs change or grow, the same platform and data can be utilized, leveraging economies of scale and eliminating data silos and the need to manage multiple vendor systems.

People

Landis+Gyr's professional services team offers a unique combination of power system engineers, subject matter

experts, software and technology architects and integration specialists. By leveraging Landis+Gyr's proven and best in class implementation methodology and standard-based adapters, utilities can start realizing benefits quickly.

Pathway

Landis+Gyr provides various deployment options that are cost-effective, robust, scalable and meet service levels now and in the future. The solution can either be deployed at the utility's data-center or hosted at Landis+Gyr's cloud-based, secure and SSAE-16 compliant Network Operations Center.

Specifications

Supported Operating Systems	Windows or Linux
Recommended Memory	32GB RAM
Required Third Party Licensing	Google Maps API Corporate License and Optional Mongo DB Enterprise License
Interface Standards Supported	CIM, MultiSpeak, DNP3/ICCP, GIS Shape files and other file based formats
Pre-built Adapters	Landis+Gyr Command Center, USC and MDMS; CYME, ESRI GIS
Data Types Required	AMI voltage profile, KW intervals (15, 30 or 60 minutes), connectivity model