SIMPLIFY ALL ASPECTS OF WORKING WITH GE MULTILIN DEVICES

A Premium Workflow Toolset for your GE Multilin Devices.

EnerVista™ Viewpoint can simplify each step of using GE Multilin devices from designing the protection and control logic, to commissioning the relays, to real time monitoring and troubleshooting of your relays or system.

Two EnerVista™ Viewpoint Packages to Streamline Your Job Function

Viewpoint has 2 options available that contain tools that are tailored directly for the different job functions using GE Multilin products. Each software package performs different roles that will empower Engineers, Maintenance Staff and Operators to perform their every day tasks more efficiently.

**VIEWPOINT ENGINEER**

Tool for Control Logic Creation, Simulation Testing, and Commissioning

**EnerVista™ VIEWPOINT ENGINEER.**

- Graphical Flexlogic Designer simplifies creating complex UR Control Schemes
- Global Comtrade Viewer allows analysis of waveforms captured in any GE Multilin devices
- Protection Simulation tools predict the outcome of commissioning tests*
- Engineering Reports verify settings will perform as desired:*   
  - Element Report
  - Peer-to-Peer Connectivity Report

**VIEWPOINT MONITORING**

Easy to Use Monitoring and Data Recording for Small Systems

**EnerVista™ VIEWPOINT MONITORING**

- Full library of all GE Multilin Devices, EPM Meters* and Microversa Trip Units**
- Automatic retrieval of Waveforms and Events**
- Plug-and-Play Monitoring
- Pre configured Screens for all GE Multilin Devices
- Create Single-Line Diagrams, Annunciator Panels, and Trending reports in minutes

* Shipping Q4 2004
** Version 5.00 release in Oct 2004
Viewpoint Engineer is a set of tools that will simplify all of the steps required for setting up your protection devices. This software will streamline the processes of configuring your devices, to testing the control logic you have designed, to finally commissioning your relays.

**GRAPHICAL LOGIC DESIGNER**

Simplify the process of creating complex control logic for substation automation in your UR relays such as advanced Tripping, Reclosing and Transfer Schemes.

Design you Logic with drag and drop ease using a library of inputs, outputs, logic gates, symbols and Configuration tools, and document your setting files with text to make it easier for others to understand.

**Powerful Intuitive Logic Compiler**

Analyzes logic for possible problems in programming such as:
- Detecting infinite loops in logic
- Using inputs and outputs, or protection, control and monitoring elements that have not been configured properly
- Using Virtual Outputs that have not been assigned
- Using inputs for hardware or features that are not available on your relay

Optimizes control logic equations to obtain maximum efficiency and to use the fewest possible lines of logic.

**GLOBAL COMTRADE VIEWER**

Diagnose waveform fault data recorded in any power system device in a Time-based, Phasor Quantity, and Tabular format view.

**View waveforms recorded from any device**
- Convert waveforms that were stored in CSV format to COMTRADE compatible files
- Merge and Overlay waveforms that were recorded in multiple devices
- Identify the harmonics content in all monitored analog parameters

Create complex Flexlogic Schemes with Drag and Drop ease.

Flexlogic Compiler detects errors and recommends improvements in logic.

Add documentation and test procedures directly into your settings file.

Design logic using a library of inputs, logic gates, and drawing tools.
Viewpoint Monitoring is an easy to use software application that will provide you with all of the Monitoring, Control, and Automatic Data Acquisition functionality that you will need for your Small Power System.

**Powerful and Simple to Use**

With minimal configuration, you can view the status of all of your GE Multilin devices and the equipment they are monitoring, collect and trend data over long periods of time, and generate alarms on any power system event. Viewpoint Monitoring will also automatically retrieve and archive all important data that is stored in your relays and meters so that it is available when you need it.

**PLUG-AND-PLAY MONITORING**

Viewpoint Monitoring will detect the devices you are using and automatically generate monitoring screens that are tailored to your devices and wiring configurations.

- **Pre-Configured Screens for Instant Monitoring**
  - Single Click monitoring of all GE Multilin Devices, EPM meters and Microversa Trip Units
  - Monitor all power quantities in real time (Current, Voltage, VAR's etc.)
  - View the status of all Device Inputs and Outputs
  - Instantly identify the status of all protected equipment

**SINGLE-LINE MONITORING & CONTROL**

Create customized graphical monitoring and controls screens to view the status of multiple devices at one time.

- **Create single-line monitoring screens in minutes**
  - Construct system diagrams with drag and drop ease
  - Contains all necessary symbols and tools required for replicating your power system
  - Includes a library of meters and dials to graphically represent any metered quantity
  - Create links to other Single-Line screens to navigate through different parts of your network

**ANNUNCIATOR ALARMING**

Monitor any measured value in all your GE Multilin Devices and generate alarms whenever a digital status changes state, or an analog values drifts beyond a preset value.

- **Instant Alarm Notification**
  - Create alarms on any monitored analog or digital data point
  - Receive alarm warnings through Audio, Visual or Email notification

View all Frequency, Current, Voltage and Power Levels using one click of your mouse.

Monitor the status of multiple devices on a screen at one time to identify when a fault occurs.

Get instant notification of system alarms from any device on your network.
EASY TO USE MONITORING AND DATA RECORDING FOR SMALL SYSTEMS

TRENDING REPORTS
Create a historical archive of monitored data from multiple GE Multilin Devices and store these logs indefinitely onto your hard drive for future reference.

**Historical Record of monitored data**
- Trend up to 500 data points from multiple devices
- Records data with 1 minute resolution indefinitely
- View data in time based graphical or tabular format

GLOBAL COMTRADE VIEWER
Diagnose waveform fault data recorded in any power system device in a Time-based, Phasor Quantity, and Tablature format view.

**View waveforms recorded from any device**
- Convert waveforms that were stored in CSV format to COMTRADE compatible files
- Merge and Overlay waveforms that were recorded in multiple devices
- Identify the harmonics content in all monitored parameters

AUTOMATIC EVENT AND WAVEFORM RETRIEVAL
Automated archiving of Event and Waveform data from all GE Multilin Devices ensures you will always have data available for diagnosing any power system event.

**Effortless Data Archiving**
- Instantly detects and retrieves any new waveform from all GE Multilin devices, EPM Meters and MicroVersa Trip Units, and saves these files on a Network location
- Automatically acquires any new events recorded in all devices and stores them in system wide Sequence of Event Record
- Sort and Query through the System Event Record to view events categorized by date, device type, timestamp, or customized criteria
- No configuration required