

## DataNode

# GE kV Meter DataNode

*Signature System's flexibility provides a customized environment for your monitoring application*

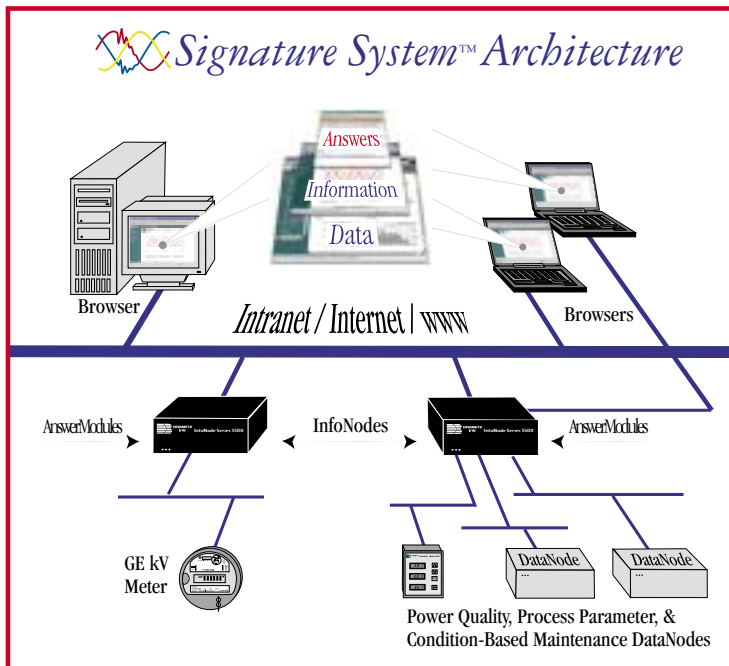
### Support for GE kV™ Meter DataNode®

The Signature System is a flexible platform for electric power system monitoring. In addition to a full range of power quantity and quality measurement features, the Signature System provides a host of information management capabilities, including compatibility with a variety of standard communication protocols and media, robustness and fault tolerance, “in-the-box” data storage and visualization features, as well as alarming and notification.

The Signature System InfoNode® interfaces with a variety of DataNodes used for different applications. An important new interface provides support for the GE kV meter. This expands Signature System's capabilities by adding revenue metering, real cost of service measurement, and complex billing and totalization analysis.

### GE kV Meter Interface

Quantities collected by the InfoNode:



- 3 Phase Energy (watt hours)
- 3 Phase Alternate Energy Measure (user selects var hours or va hours)
- 3 Phase Peak Active Power Demand
- 3 Phase Peak Alternate Power Demand (user selects var or va)
- 3 Phase “Instantaneous” Active Power
- 3 Phase “Instantaneous” Alternate Power (user selects var or va)
- Phase Voltages
- Phase Currents

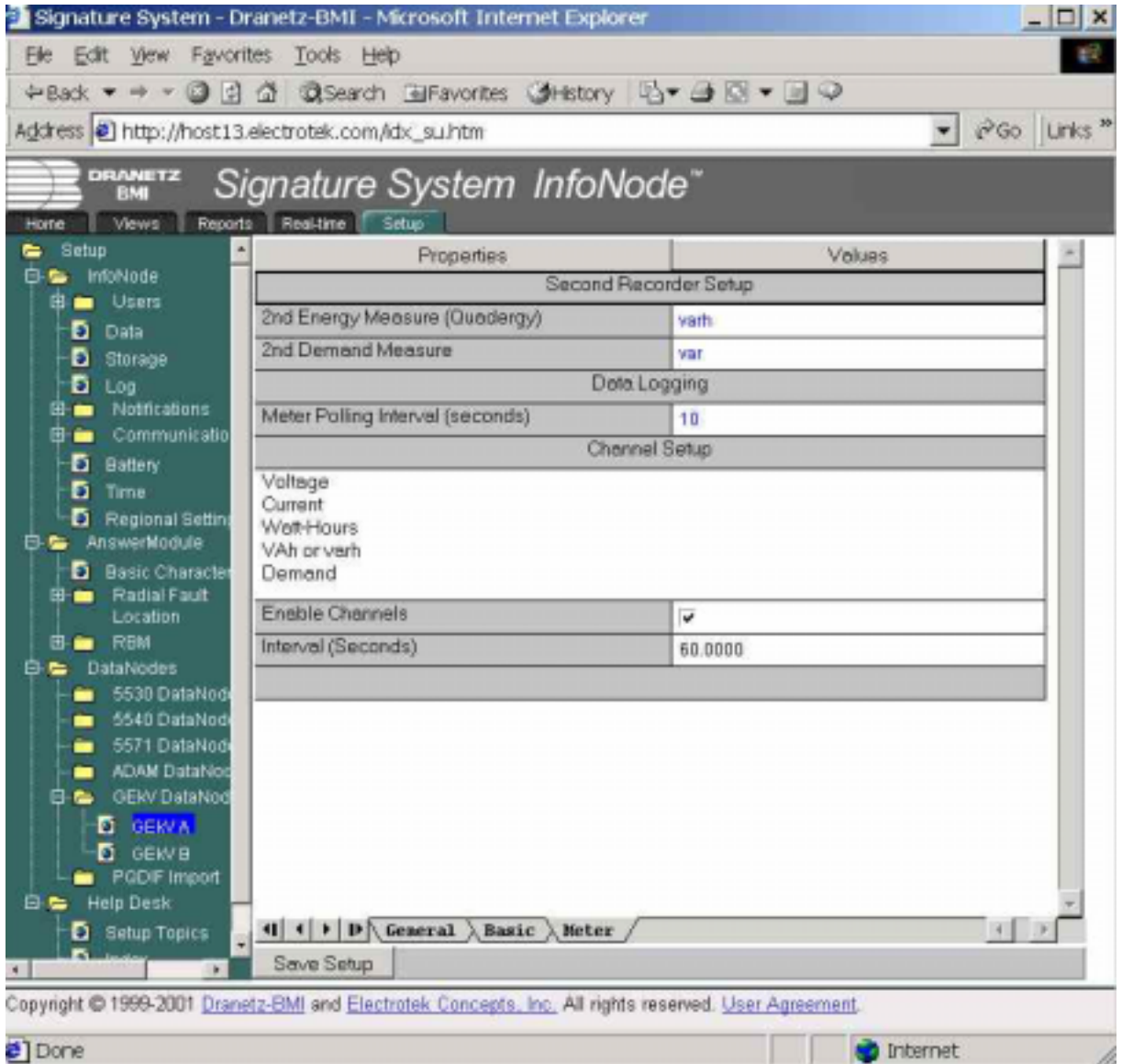
For energy and demand, you can control the frequency of saving data. For power, voltage, and current, you can specify the sampling and aggregation rate. Sampling is the rate at which the meter is polled for data, while aggregation is the rate at which min-avg. max samples are stored in the database. The GE kV meter supports an option for collecting interval data over long periods of time.

## Set-Up Procedures

GE's MeterMate™ software is used to initially program the meter. RS-232 communications are used for short distances and RS-485 communications for longer distances between the meter and the InfoNode. RS-485 communications requires a separate converter.

## Interfacing with Multiple Meters

Multiple GE kV meters can be included through the use of an external code-activated serial switch and can interface with up to 8 meters using one InfoNode.



**Example InfoNode Setup:** GE MeterMate software is used initially so the Signature System setup is minimal.



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