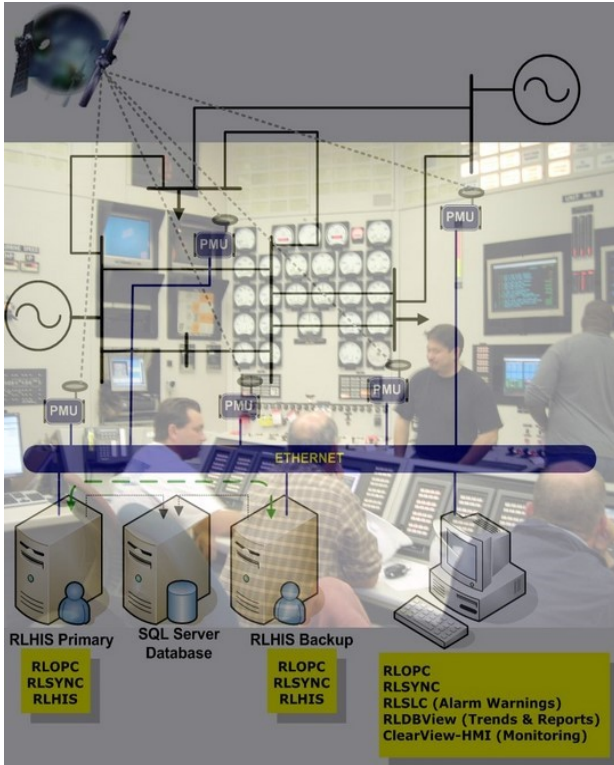




# SYNCHROPHASOR OPC DEVICE DRIVERS

## Enabling implementation of Phasor Grid Control and Black Out Prevention



On August 14, 2003, a blackout cascaded across the Mid-West, Northeast U.S. and Canada. Within a few minutes, over 50 million people were left without power.

The final report states the blackout could have been prevented had there been a centralized database for the grid.

Updating old and poorly functioning power grid monitoring systems with Synchrophasor and the appropriate supervisory control can eliminate blackout events.

ReLab software provides a suite of products, including the only OPC drivers meeting IEEE C37.118 requirements, that deliver accurate and true real-time, reliable Phasor data to electric utility control-rooms and provide

- RLSYNC**                      Synchrophasor IEEE C37.118 OPD Device Driver    (Serial & TCP)
- RLSYNCPDC**              Synchrophasor IEEE C37.118 PDC OPC Device Driver (TCP/UDP)
- RLSLC**                      Software Logic Controller
- ClearView-SCADA**        Supervisory Control And Data Acquisition

The Synchrophasor OPC Device Driver enables system-wide monitoring of power systems to prevent overload and provides a holistic view of the individual segments of a power grid.

The Synchrophasor OPC Device Driver enables early detection of power grid instabilities and is a vital tool for preventing blackouts.

Early detection is the key to preventing a domino effect (cascading) of electrical system collapse. ReLab's suite of products are the only complete Synchrophasor implementation and supervisory control solution on the market today.



ReLab Synchrophasor OPC Device Drivers  
The enabler for Synchrophasor



## The first IEEE C37.118 compliant Synchronphasor OPC Driver on the market

### Functionality

- ⇒ IEEE C37.118 Compliant
- ⇒ Complete software platform for Synchronphasor implementation, visualization and Supervisory Control
- ⇒ Effective prediction and prevention of power flow disturbances and blackouts
- ⇒ Fully interoperable: both software and hardware agnostic
- ⇒ Supervisory control for the entire grid down to an individual IED

### Scalability

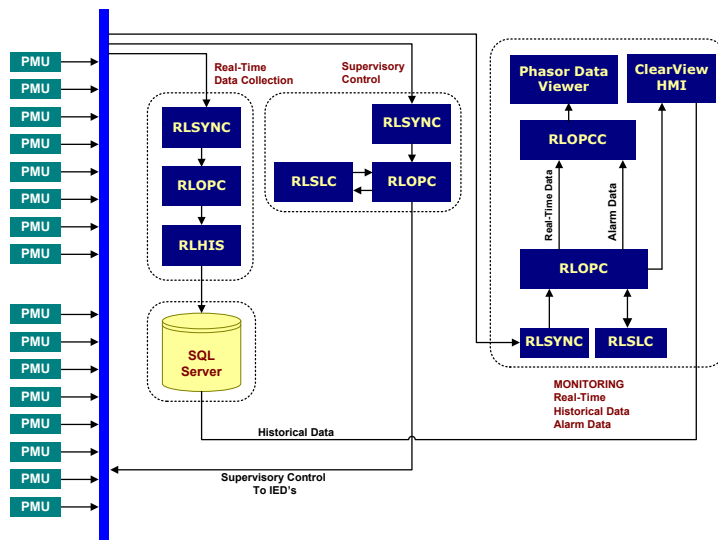
- ⇒ Control for a single substation to an entire grid with 100s of PMUs
- ⇒ Easy and direct expansion process

### Performance

- ⇒ Supports up to 16 PMUs with a single instance
- ⇒ PMU rate of up to 60 frames per second
- ⇒ Millisecond SCADA response times
- ⇒ Low CPU consumption, 20% or less

### Economics

- ⇒ Cost effective, replaces PDCs for a fraction of their price
- ⇒ Low cost-of-ownership with fast return-on-investment



Download a demo version from our web site at [www.relabsoft.com](http://www.relabsoft.com)

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