Digital Energy
PhasorProcessor
Flexible and Scalable phasor processing via Phasor Data Concentrator

SCALABLE PROCESSING OF PHASOR DATA, FROM PILOT SYSTEMS TO LARGE SCALE DEPLOYMENTS

Perform large amounts of data processing, including receiving multiple PMU data streams and performing stream data rate conversion where required, time-aligning the stream, and repacking the streams into one or more output streams for transmission to other systems

KEY OUTCOMES

- Increased reliability and security of critical PMU data
- Scalability supports expansion of WAMS maximising the value of phasor data and providing greater insights
- Flexible configuration for more efficient WAMS reducing maintenance overhead
- Improving system operation through data sharing with other applications and utilities

KEY FEATURES

- IEEE C37.118 2005/2011/2014 (including Configuration Frame 3) compliant
- Support for diverse communication protocols (TCP, UDP, Spontaneous UDP, Mixed, Multicast)
- Capability to time synchronise and process >1,000 PMUs with minimal processing latency
- Monitor connection statistics, PDC network performance and raw phasor data
- Data manipulation including up/downsampling, offsetting and multiplication

OVERVIEW
Scalable Processing of Phasor Data, from Pilot Systems to Large Scale Deployments

The increasing roll-out of Wide-Area Monitoring Systems (WAMS) calls for flexible and scalable deployment using Phasor Data Concentrators (PDCs). From deployment of complex systems to data exchange with other control centres and utilities, the capability to concentrate, manipulate and forward PMU is of major importance to utilities in maximising the value of their phasor data.

PhasorProcessor allows utilities to reliably and securely transfer phasor data and is fully integrated to the PhasorPoint Application Layer as part of an enterprise-scale WAMS, or can be deployed for autonomous operation in small-scale regional systems or as a substation device.

PhasorProcessor has been deployed at the largest operational WAMS worldwide, collecting >18,000 real-time synchronised measurements from >350 substations over a single synchronised network and showing the data in >30 control centers.
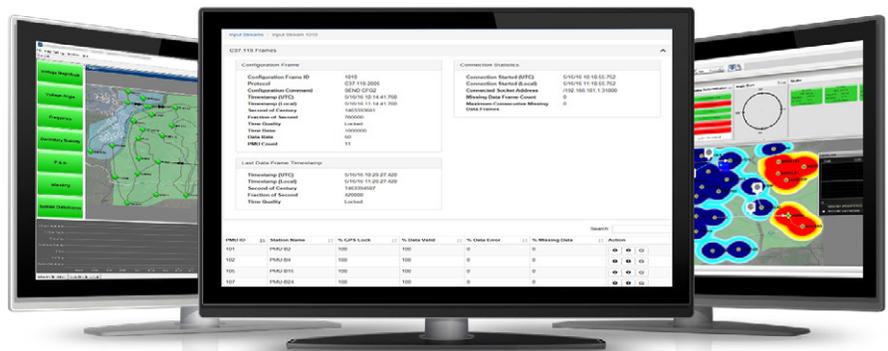
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