

### **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.



# Contact Us ge.com/digital/sales-contact-me

© 2019, General Electric Company. GE Proprietary Information - This document contains General Electric Company (GE) proprietary information. It is the property of GE and shall not be used, disclosed to others or reproduced without the express written consent of GE, including, but without limitation, in the creation, manufacture, development, or derivation of any repairs, modifications, spare parts, or configuration changes or to obtain government or regulatory approval to do so, if consent is given for reproduction in whole or in part, this notice and the notice set forth on each page of this document shall appear in any such reproduction in whole or in part. The information contained in this document may also be controlled by the US export control laws. Unauthorized export or re-export is prohibited. This presentation and the information herein are provided for information purposes only and are subject to change without notice. NO REPRESENTATION OR WARRANTY IS MADE OR IMPLIED AS TO ITS COMPLETENESS, ACCURACY, OR FITNESS FOR ANY PARTICULAR PURPOSE. All relative statements are with respect to GE technology unless otherwise noted.